

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.5. Lease Serial No. **NMNM138865**

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator **MATADOR PRODUCTION COMPANY**3a. Address **5400 LBJ Freeway, Suite 1500, Dallas, TX 75240** 3b. Phone No. (include area code)
(972) 371-52004. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 15/T26S/R31E/NMP

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No. **BOROS FEDERAL/22H**9. API Well No. **3001546911**10. Field and Pool or Exploratory Area **Paduca**
BONE SPRING/JENNINGS; BONE SPRING, WEST11. Country or Parish, State
EDDY/NM**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION				
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

BLM Bond No.: NMB001079

Surety Bond No.: RLB0015172

Matador requests the name of the Boros Federal 022H be changed to the Boros Federal 136H.

Matador also requests the pool be changed from BIG SINKS DELAWARE,SOUTHEAST (Pool Code 96411) to the JENNINGS;BONE SPRING, WEST (Pool Code 97860).

Please see the attached C102 and directional data to revise the BHL from 100' FSL and 1980' FWL of Section 22 Township 26 South Range 31 East to 100' FSL and 2310' FWL of Section 22 Township 26 South Range 31 East.

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) HAWKS HOLDER / Ph: (806) 282-6846	Title Landman
Signature	Date 09/21/2021

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Title Petroleum Engineer	Date 03/29/2022
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office CARLSBAD	

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-015-46911		² Pool Code 97860 96641	³ Pool Name Paduca JENNINGS; BONE SPRING, WEST
⁴ Property Code 326329	⁵ Property Name BOROS FEDERAL		⁶ Well Number 136H
⁷ GRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY		⁹ Elevation 3227'

¹⁰Surface Location

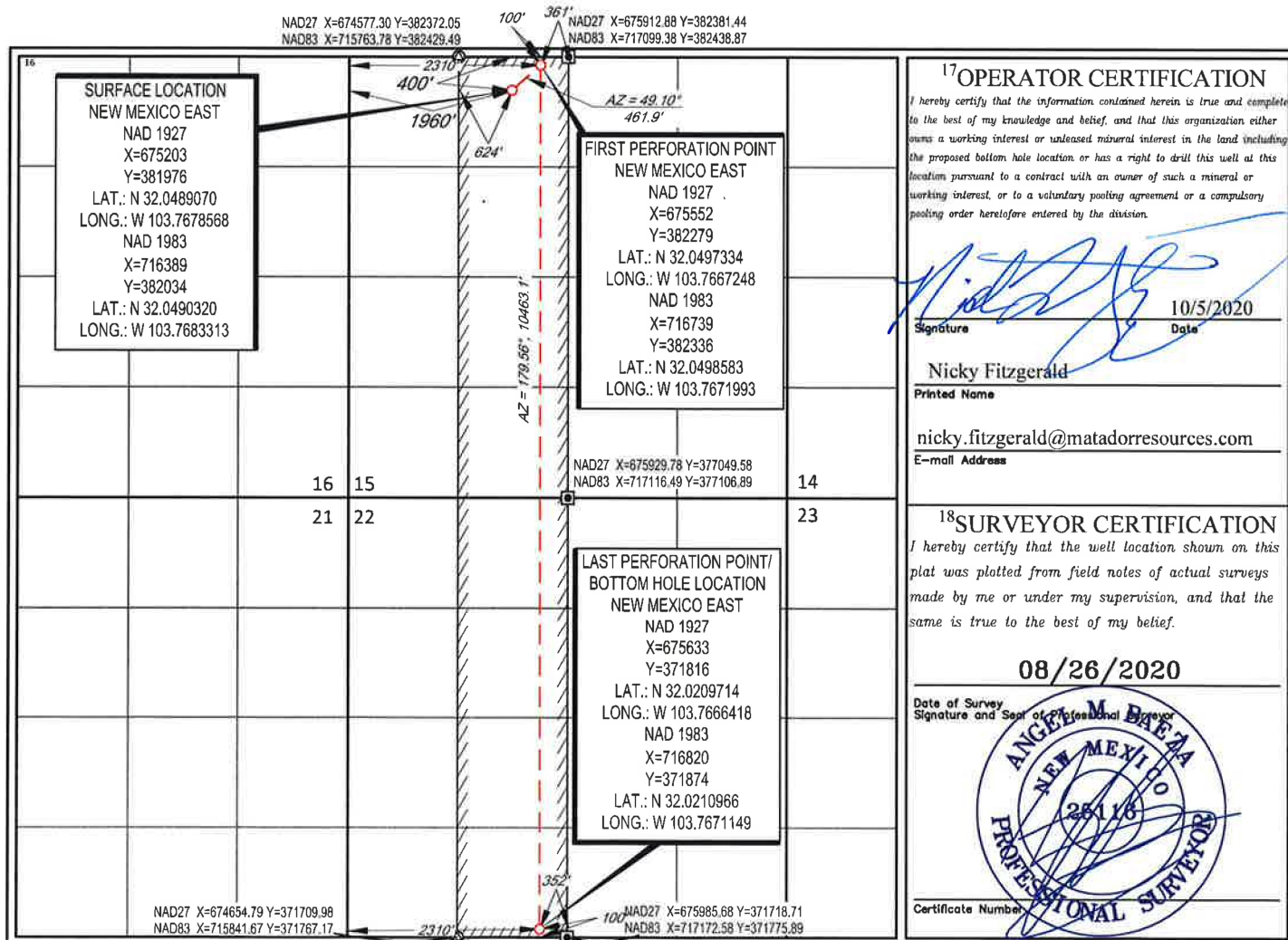
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	15	26-S	31-E	-	400'	NORTH	1960'	WEST	EDDY

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	22	26-S	31-E	-	100'	SOUTH	2310'	WEST	EDDY

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



S:\SURVEY\MATADOR_RESOURCES\BOROS_15&22-26S-31E\FINAL_PRODUCTS\SILO_BOROS_FEDERAL_136H.DWG 9/15/2020 8:42:53 AM adisabella

Form 3160-5
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
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NMNM138865

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
BOROS FEDERAL 022H9. API Well No.
30-015-4691110. Field and Pool or Exploratory Area
BIG SINKS DELAWARE,SE

11. County or Parish, State

EDDY COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Contact: NICKY FITZGERALD

MATADOR PRODUCTION COMPANYE-Mail: nicky.fitzgerald@matadorresources.com

3a. Address

5400 LBJ FREEWAY, SUITE 1500
DALLAS, TX 75240

3b. Phone No. (include area code)

Ph: 972-371-5448

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 15 T26S R31E 400FNL 1960FWL

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
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	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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Please see the attached C102 and directional data to revise the BHL from 100? FSL and 1980? FWL of Section 22 Township 26 South Range 31 East to 100? FSL and 2310? FWL of Section 22 Township 26 South Range 31 East.

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #532839 verified by the BLM Well Information System
For MATADOR PRODUCTION COMPANY, sent to the Carlsbad**

Name (Printed/Typed) NICKY FITZGERALD

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 10/05/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Additional data for EC transaction #532839 that would not fit on the form

32. Additional remarks, continued

Lastly, Matador request to the option to amend the casing and cement design to the attached plan. Deepen well down to a 3rd Bone Spring. Add option to slim down 9-5/8" casing to 7-5/8" casing and deepen. Update production casing connection to TLW-SC. Please see the supporting documentation attached and contact Blake Hermes at 972-371-5485 or bhermes@matadorresources.com for any questions.

Casing Table Specification Sheet

Boros Federal 136H
SHL: 400' FNL & 1960' FWL Section 15
BHL: 100' FSL & 2310' FWL Section 22
Township/Range: 26S 31E
Elevation Above Sea Level: 3227

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	17.5	0 - 1361.4	0 - 1361.4	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 10254	0 - 10254	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	6.75	0 - 21201	0 - 10900	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

Drill Plan

Boros Federal 136H
SHL: 400' FNL & 1960' FWL Section 15
BHL: 100' FSL & 2310' FWL Section 22
Township/Range: 26S 31E
Elevation Above Sea Level: 3227

Drilling Operation Plan

Proposed Drilling Depth: 21201' MD / 10900' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.04999754768278 N / -103.76752774235503 W

TD Lat/Long (NAD83): 32.02109665639402 N / -103.76711489258238 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	1,336	1,336	159	Anhydrite	Barren
Salado (Top of Salt)	1,495	1,495	1,896	Salt	Barren
Castile	3,391	3,391	682	Salt	Barren
Lamar (Base of Salt)	4,073	4,073	43	Sandstone	Oil/Natural Gas
Bell Canyon	4,116	4,116	1,078	Sandstone	Oil/Natural Gas
Cherry Canyon	5,194	5,194	1,185	Sandstone	Oil/Natural Gas
Brushy Canyon	6,379	6,379	1,686	Limestone	Oil/Natural Gas
Bone Spring Lime	8,065	8,065	1,136	Carbonate	Oil/Natural Gas
1st Bone Spring Sand	9,201	9,201	246	Sandstone	Oil/Natural Gas
2nd Bone Spring Carbonate	9,447	9,447	284	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	9,731	9,731	596	Sandstone	Oil/Natural Gas
3rd Bone Spring Carbonate	10,168	10,168	381	Carbonate	Oil/Natural Gas
KOP	10,354	10,327	-	Carbonate	Oil/Natural Gas
3rd Bone Spring Sand	10,640	10,549	-	Sandstone	Oil/Natural Gas
TD	21,201	10,900		Sandstone	Oil/Natural Gas

2. Notable Zones

3rd Bone Spring is the goal. All perforations will be within the setback requirements as prescribed or permitted by the New Mexico Oil Conservation Division. OSE estimated ground water depth at this location is 230'.

3. Pressure Control**Equipment**

A 12,000' 5000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and one annular preventer will be utilized below surface casing to TD. See attachments for BOP and choke manifold diagrams.

An accumulator complying with Onshore Order #2 requirements for the pressure rating of the BOP stack will be present. A rotating head will also be installed as needed.

Testing Procedure

Drill Plan

BOP will be inspected and operated as required in Onshore Order #2. Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position.

A third party company will test the BOPs.

After setting surface casing, a minimum 5M BOPE system will be installed. Test pressures will be 250 psi low and 5000 psi high with the annular preventer being tested to 250 psi low and 2500 psi high before drilling below surface shoe. In the event that the rig drills multiple wells on the pad and any seal subject to test pressures are broken, a full BOP test will be performed when the rig returns and the 5M BOPE system is re-installed.

Variance Request

Matador requests a variance to have the option of running a multi-bowl wellhead assembly for setting the Intermediate 1 and Production Strings. The BOPs will not be tested again unless any flanges are separated.

Matador requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. If the specific hose is not available, then one of equal or higher rating will be used.

Matador requests a variance to have the option of batch drilling this well with other wells on the same pad. In the event that this well is batch drilled, the wellbore will be secured with a blind flange of like pressure. When the rig returns to this well and BOPs are installed, the operator will perform a full BOP test.

4. Casing & Cement

All casing will be API and new. See attached casing assumption worksheet.

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	17.5	0 - 1361.4	0 - 1361.4	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 10254	0 - 10254	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	6.75	0 - 21201	0 - 10900	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

- All casing strings will be tested in accordance with Onshore Order #2 - III.B.1.h

- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed

- All non-API joint connections will be of like or greater quality and as run specification sheets will be on location for review

- Request option to deepen Intermediate 1 set depth into curve, no changes in pipe weight or grade is necessary.

Variance Request

Matador request a variance to wave the centralizer requirement for the 7-5/8" casing and the 5-1/2" SF/Flush casing in the 6-3/4" hole.

If a DV tool is used, depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above the current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Matador request option to perform a bradenhead cement squeeze on Intermediate 1 string.

Matador request a variance to utilize a surface setting rig. If this is used, Matador request the option to drill either 17.5" or 20" surface hole.

Drill Plan

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement	Class	Blend
Surface	Lead	680	1.72	1178	13.5	50%	0	C	5% NaCl + LCM
	Tail	250	1.38	347	14.8	50%	1061	C	5% NaCl + LCM
Intermediate 1	Lead	900	3.66	3301	10.3	35%	0	A/C	Bentonite + 1% CaCL ₂ + 8% NaCl + LCM
	Tail	230	1.38	311	13.2	35%	9254	A/C	5% NaCl + LCM
Production	Lead	10	3.66	28	10.3	10%	10054	A/C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	750	1.35	1007	13.2	10%	10354	A/C	Fluid Loss + Dispersant + Retarder + LCM

5. Mud Program

An electronic Pason mud monitoring system complying with Onshore Order 2 will be used. All necessary mud products (barite, bentonite, LCM) for weight addition and fluid loss control will be on location at all times. Mud program is subject to change due to hole conditions.

Hole Section	Hole Size (in)	Mud Type	Interval MD (ft)	Density (lb/gal)	Viscosity	Fluid Loss
Surface	17.5	Spud Mud	0 - 1361.4	8.4 - 8.8	28-30	NC
Intermediate 1	9.875	Diesel Bine Emulsion	1361.4 - 10254	8.7 - 9.4	28-30	NC
Production	6.75	OBM/Cut Brine	10254 - 21201	8.6 - 9.4	28-30	NC

6. Cores, Test, & Logs

No core or drill stem test is planned.

No electric logs are planned at this time. GR will be collected through the MWD tools from Intermediate casing to TD. CBL with CCL will be run as far as gravity will let it fall to top of curve.

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Maximum anticipated surface pressure is 2930 psi. Expected bottom hole temperature is 186 F.

In accordance with Onshore Order 6, Matador does not anticipate that there will be enough H₂S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of a "H₂S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have a H₂S safety package on all wells, attached is a "H₂S Drilling Operations Plan." Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of the equipment being used.

Matador Production Company

Rustler Breaks

Boros

Boros Federal #136H

Wellbore #1

BLM Plan #1

Anticollision Report

11 September, 2020

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	9/11/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	21,201.2	BLM 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
Boros						
Boros Fed Com #202H - Wellbore #1 - Actual Surveys	695.5	694.5	140.2	135.8	31.960	CC
Boros Fed Com #202H - Wellbore #1 - Actual Surveys	2,400.0	2,399.0	141.9	125.5	8.652	ES
Boros Fed Com #202H - Wellbore #1 - Actual Surveys	21,070.7	21,547.0	801.0	512.2	2.774	SF
Boros Fed Com #216H - Wellbore #1 - Actual Surveys	9,129.6	9,150.1	71.2	5.9	1.090	Level 2, CC
Boros Fed Com #216H - Wellbore #1 - Actual Surveys	10,454.0	10,474.4	76.6	2.7	1.037	Level 2, ES, SF
Boros Fed Com #222H - Wellbore #1 - BLM Plan #1	1,500.0	1,499.0	110.0	99.7	10.693	CC
Boros Fed Com #222H - Wellbore #1 - BLM Plan #1	1,600.0	1,597.7	110.6	99.6	10.055	ES
Boros Fed Com #222H - Wellbore #1 - BLM Plan #1	21,100.0	22,424.7	1,513.1	1,301.4	7.149	SF
Boros Fed Com #226H - Wellbore #1 - BLM Plan #1	2,517.9	2,522.7	73.9	56.2	4.182	CC
Boros Fed Com #226H - Wellbore #1 - BLM Plan #1	10,400.0	10,402.1	100.3	25.7	1.345	Level 3, ES, SF
Boros Federal #022H - Wellbore #1 - BLM Plan #1	4,131.5	4,136.1	79.1	50.0	2.718	CC, ES
Boros Federal #022H - Wellbore #1 - BLM Plan #1	4,200.0	4,203.9	79.7	50.1	2.692	SF
Boros Federal #102H - Wellbore #1 - BLM Plan #1	3,265.5	3,267.1	81.5	58.6	3.557	CC
Boros Federal #102H - Wellbore #1 - BLM Plan #1	3,300.0	3,301.7	81.6	58.4	3.523	ES
Boros Federal #102H - Wellbore #1 - BLM Plan #1	3,500.0	3,502.3	84.0	59.4	3.418	SF
Boros Federal #106H - Wellbore #1 - BLM Plan #1	1,500.0	1,500.0	114.0	103.7	11.078	CC
Boros Federal #106H - Wellbore #1 - BLM Plan #1	1,600.0	1,599.2	114.4	103.4	10.395	ES
Boros Federal #106H - Wellbore #1 - BLM Plan #1	8,400.0	8,402.9	174.9	114.3	2.888	SF
Boros Federal #112H - Wellbore #1 - BLM Plan #1	3,505.5	3,506.1	54.3	29.7	2.208	CC, ES
Boros Federal #112H - Wellbore #1 - BLM Plan #1	3,600.0	3,600.3	55.4	30.1	2.190	SF
Boros Federal #122H - Wellbore #1 - BLM Plan #1	2,500.0	2,500.0	30.0	12.5	1.716	CC, ES
Boros Federal #122H - Wellbore #1 - BLM Plan #1	2,600.0	2,599.9	30.7	12.5	1.689	SF
Boros Federal #132H - Wellbore #1 - BLM Plan #1	2,500.0	2,500.0	42.5	25.0	2.432	CC, ES
Boros Federal #132H - Wellbore #1 - BLM Plan #1	21,201.2	21,195.1	666.0	319.6	1.923	SF
Boros Federal #242H - Wellbore #1 - BLM Plan #1	2,131.6	2,132.9	135.6	120.7	9.140	CC
Boros Federal #242H - Wellbore #1 - BLM Plan #1	2,200.0	2,200.8	135.8	120.5	8.861	ES
Boros Federal #242H - Wellbore #1 - BLM Plan #1	10,400.0	10,404.9	200.3	125.7	2.687	SF

Offset Design		Boros - Boros Fed Com #202H - Wellbore #1 - Actual Surveys										Offset Site Error:		0.0 usft	
Survey Program:		172-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	-102.51	-31.0	-139.8	143.2						

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

Anticollision Report

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Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 172-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	99.5	99.5	0.1	0.1	-102.53	-31.0	-139.6	143.0	142.7	0.28	513.981	
200.0	200.0	199.9	199.9	0.5	0.4	-102.62	-31.1	-139.0	142.4	141.6	0.84	168.588	
300.0	300.0	299.9	299.9	0.8	0.7	-102.82	-31.5	-138.3	141.8	140.2	1.56	90.863	
400.0	400.0	399.7	399.7	1.2	1.1	-103.04	-31.9	-137.6	141.3	139.0	2.28	62.046	
500.0	500.0	499.7	499.7	1.6	1.4	-103.29	-32.4	-137.0	140.7	137.8	2.99	47.020	
600.0	600.0	599.4	599.4	1.9	1.8	-103.47	-32.7	-136.5	140.4	136.7	3.71	37.844	
695.5	695.5	694.5	694.5	2.3	2.1	-103.54	-32.8	-136.3	140.2	135.8	4.39	31.960 CC	
700.0	700.0	699.0	699.0	2.3	2.1	-103.54	-32.8	-136.3	140.2	135.8	4.42	31.731	
800.0	800.0	798.5	798.5	2.6	2.5	-103.57	-33.0	-136.5	140.4	135.3	5.12	27.436	
900.0	900.0	897.8	897.8	3.0	2.8	-103.56	-33.1	-137.1	141.0	135.2	5.81	24.268	
1,000.0	1,000.0	996.8	996.7	3.4	3.2	-103.48	-33.2	-138.3	142.2	135.7	6.51	21.861	
1,100.0	1,100.0	1,096.8	1,096.7	3.7	3.5	-103.41	-33.4	-139.9	143.9	136.7	7.21	19.962	
1,200.0	1,200.0	1,197.4	1,197.4	4.1	3.8	-103.21	-33.2	-141.4	145.2	137.3	7.91	18.354	
1,300.0	1,300.0	1,297.8	1,297.7	4.4	4.2	-102.88	-32.6	-142.6	146.2	137.6	8.62	16.968	
1,400.0	1,400.0	1,398.2	1,398.1	4.8	4.5	-102.56	-32.0	-143.5	147.0	137.7	9.33	15.764	
1,500.0	1,500.0	1,498.9	1,498.8	5.1	4.9	-102.19	-31.1	-144.0	147.4	137.3	10.03	14.687	
1,600.0	1,600.0	1,599.4	1,599.4	5.5	5.2	-101.83	-30.2	-144.2	147.3	136.5	10.74	13.713	
1,700.0	1,700.0	1,699.2	1,699.1	5.9	5.6	-101.48	-29.3	-144.0	146.9	135.5	11.45	12.837	
1,704.7	1,704.7	1,703.8	1,703.7	5.9	5.6	-101.47	-29.2	-144.0	146.9	135.5	11.48	12.800	
1,800.0	1,800.0	1,797.2	1,797.1	6.2	5.9	-101.20	-28.7	-144.9	147.8	135.6	12.15	12.164	
1,900.0	1,900.0	1,898.6	1,898.5	6.6	6.3	-101.01	-28.4	-145.9	148.6	135.8	12.86	11.555	
2,000.0	2,000.0	2,000.5	2,000.4	6.9	6.6	-100.94	-28.1	-145.6	148.3	134.7	13.58	10.923	
2,100.0	2,100.0	2,101.9	2,101.8	7.3	7.0	-101.01	-28.0	-144.1	146.8	132.5	14.28	10.277	
2,200.0	2,200.0	2,202.8	2,202.7	7.7	7.3	-101.17	-28.0	-141.8	144.5	129.6	14.99	9.642	
2,300.0	2,300.0	2,301.0	2,300.8	8.0	7.7	-101.23	-27.7	-139.6	142.3	126.6	15.70	9.066	
2,386.1	2,386.1	2,385.3	2,385.1	8.3	8.0	-101.04	-27.2	-139.2	141.9	125.6	16.30	8.703	
2,400.0	2,400.0	2,399.0	2,398.8	8.4	8.0	-100.98	-27.0	-139.3	141.9	125.5	16.40	8.652 ES	
2,500.0	2,500.0	2,496.5	2,496.3	8.7	8.4	-100.22	-25.3	-140.5	142.8	125.7	17.10	8.351	
2,600.0	2,600.0	2,595.5	2,595.2	9.1	8.7	-133.92	-21.9	-143.5	145.8	128.0	17.80	8.190	
2,700.0	2,700.0	2,694.8	2,694.4	9.4	9.1	-132.72	-17.4	-146.9	150.4	131.9	18.50	8.128	
2,800.0	2,799.9	2,794.0	2,793.3	9.8	9.4	-132.20	-13.4	-150.7	156.6	137.4	19.20	8.155	
2,900.0	2,899.7	2,894.0	2,893.3	10.2	9.8	-132.26	-9.7	-154.7	164.1	144.2	19.91	8.242	
3,000.0	2,999.4	2,992.9	2,992.0	10.5	10.1	-132.79	-6.2	-158.6	172.9	152.3	20.62	8.387	
3,100.0	3,098.9	3,091.7	3,090.6	10.9	10.5	-133.34	-1.8	-163.1	183.3	162.0	21.32	8.600	
3,200.0	3,198.3	3,191.4	3,190.0	11.2	10.8	-133.87	3.7	-167.9	195.1	173.0	22.03	8.853	
3,300.0	3,297.4	3,290.7	3,289.1	11.6	11.2	-134.76	8.9	-172.2	207.7	184.9	22.75	9.129	
3,400.0	3,396.4	3,387.8	3,385.9	12.0	11.5	-135.49	14.9	-177.4	221.6	198.2	23.45	9.451	
3,500.0	3,495.5	3,486.2	3,483.9	12.3	11.9	-136.05	21.3	-182.9	235.9	211.7	24.16	9.763	
3,600.0	3,594.5	3,581.2	3,578.5	12.7	12.3	-136.53	27.3	-189.0	251.0	226.2	24.85	10.103	
3,700.0	3,693.5	3,675.4	3,672.1	13.1	12.6	-136.64	34.3	-197.3	268.2	242.7	25.52	10.509	
3,800.0	3,792.5	3,775.3	3,771.3	13.5	13.0	-136.80	41.2	-206.5	285.8	259.6	26.26	10.886	
3,900.0	3,891.6	3,875.0	3,870.5	13.9	13.3	-137.24	46.9	-214.5	302.7	275.7	26.99	11.212	
4,000.0	3,990.6	3,973.0	3,967.9	14.2	13.7	-137.34	53.9	-222.9	319.7	292.0	27.71	11.534	
4,100.0	4,089.6	4,073.0	4,067.3	14.6	14.1	-137.31	61.8	-231.5	336.6	308.1	28.46	11.826	
4,200.0	4,188.6	4,171.3	4,164.9	15.0	14.4	-137.35	69.3	-239.5	353.1	323.9	29.19	12.096	
4,300.0	4,287.7	4,268.8	4,261.6	15.4	14.8	-137.18	77.9	-248.0	369.9	340.0	29.91	12.366	
4,400.0	4,386.7	4,366.0	4,358.0	15.8	15.2	-136.94	86.9	-256.9	387.1	356.4	30.64	12.633	
4,500.0	4,485.7	4,463.7	4,454.9	16.2	15.6	-136.72	96.0	-266.2	404.5	373.1	31.37	12.893	
4,600.0	4,584.8	4,561.1	4,551.5	16.6	15.9	-136.55	104.7	-275.5	422.1	390.0	32.11	13.149	
4,700.0	4,683.8	4,659.8	4,649.3	17.0	16.3	-136.41	113.4	-285.1	439.9	407.0	32.85	13.390	
4,800.0	4,782.8	4,759.5	4,748.2	17.4	16.7	-136.29	122.1	-294.5	457.5	423.9	33.61	13.612	
4,900.0	4,881.8	4,858.6	4,846.5	17.8	17.1	-136.21	130.7	-303.6	474.8	440.5	34.36	13.819	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 172-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	4,980.9	4,957.6	4,944.7	18.2	17.5	-136.16	139.0	-312.6	492.1	457.0	35.11	14.015	
5,100.0	5,079.9	5,056.8	5,043.2	18.6	17.9	-136.17	146.8	-321.4	509.2	473.3	35.86	14.198	
5,200.0	5,178.9	5,154.9	5,140.7	19.0	18.2	-136.24	154.1	-329.9	526.3	489.7	36.61	14.377	
5,300.0	5,277.9	5,253.6	5,238.7	19.4	18.6	-136.34	161.0	-338.5	543.5	506.1	37.36	14.548	
5,400.0	5,377.0	5,352.6	5,337.2	19.8	19.0	-136.47	167.8	-347.0	560.5	522.4	38.11	14.709	
5,500.0	5,476.0	5,450.7	5,434.7	20.2	19.4	-136.60	174.2	-355.3	577.6	538.7	38.85	14.867	
5,600.0	5,575.0	5,549.5	5,533.0	20.6	19.8	-136.75	180.6	-363.7	594.7	555.1	39.60	15.018	
5,700.0	5,674.0	5,648.7	5,631.6	21.0	20.1	-136.93	186.6	-372.0	611.7	571.3	40.35	15.159	
5,726.0	5,699.8	5,674.4	5,657.2	21.1	20.2	-136.95	188.3	-374.1	616.1	575.5	40.55	15.195	
5,800.0	5,773.2	5,746.1	5,728.4	21.4	20.5	-137.06	193.7	-380.3	628.1	587.1	41.09	15.288	
5,900.0	5,872.6	5,843.6	5,825.1	21.7	20.9	-136.98	201.6	-389.2	643.1	601.3	41.82	15.377	
6,000.0	5,972.3	5,944.0	5,924.8	22.1	21.3	-136.75	209.6	-398.2	656.2	613.6	42.58	15.411	
6,100.0	6,072.1	6,045.8	6,025.9	22.5	21.7	-136.37	217.5	-407.1	667.1	623.8	43.34	15.393	
6,200.0	6,172.1	6,146.8	6,126.3	22.8	22.1	-135.82	225.5	-415.5	675.9	631.8	44.09	15.330	
6,259.3	6,231.4	6,206.2	6,185.3	23.1	22.3	-100.39	230.2	-420.3	680.1	635.6	44.52	15.276	
6,300.0	6,272.1	6,246.9	6,225.7	23.2	22.5	-100.07	233.4	-423.6	682.8	638.0	44.82	15.235	
6,400.0	6,372.1	6,347.8	6,326.0	23.5	22.9	-99.35	240.8	-431.6	689.4	643.9	45.55	15.135	
6,500.0	6,472.1	6,446.5	6,424.2	23.9	23.3	-98.67	247.9	-439.4	696.0	649.8	46.27	15.044	
6,600.0	6,572.1	6,544.7	6,521.7	24.2	23.6	-97.96	255.4	-447.3	702.9	656.0	46.98	14.963	
6,700.0	6,672.1	6,648.5	6,624.9	24.6	24.0	-97.27	263.0	-455.3	709.6	661.9	47.74	14.866	
6,800.0	6,772.1	6,747.8	6,723.7	24.9	24.4	-96.59	270.5	-462.8	716.2	667.8	48.46	14.781	
6,900.0	6,872.1	6,847.9	6,823.2	25.2	24.8	-95.89	278.5	-470.3	722.8	673.6	49.18	14.697	
7,000.0	6,972.1	6,948.2	6,922.9	25.6	25.2	-95.22	286.4	-477.7	729.5	679.6	49.91	14.616	
7,100.0	7,072.1	7,049.2	7,023.4	25.9	25.6	-94.61	293.6	-484.9	736.0	685.3	50.64	14.533	
7,200.0	7,172.1	7,148.8	7,122.5	26.3	26.0	-94.04	300.3	-491.9	742.5	691.1	51.36	14.457	
7,300.0	7,272.1	7,252.2	7,225.4	26.6	26.4	-93.48	307.2	-499.0	748.9	696.8	52.11	14.373	
7,400.0	7,372.1	7,354.6	7,327.3	27.0	26.8	-92.81	315.6	-505.4	754.8	701.9	52.85	14.282	
7,500.0	7,472.1	7,454.2	7,426.3	27.3	27.2	-92.12	324.5	-511.6	760.6	707.0	53.57	14.198	
7,600.0	7,572.1	7,554.6	7,526.2	27.7	27.6	-91.46	333.0	-517.8	766.5	712.2	54.30	14.117	
7,700.0	7,672.1	7,663.1	7,634.2	28.0	28.0	-90.85	341.1	-523.8	771.9	716.8	55.08	14.015	
7,800.0	7,772.1	7,776.4	7,747.2	28.4	28.4	-90.37	347.6	-528.4	775.9	720.0	55.86	13.889	
7,900.0	7,872.1	7,893.3	7,864.0	28.7	28.8	-90.07	351.7	-530.5	777.7	721.0	56.64	13.729	
8,000.0	7,972.1	7,997.1	7,967.7	29.1	29.2	-89.88	354.1	-531.0	778.2	720.8	57.36	13.567	
8,100.0	8,072.1	8,095.6	8,066.3	29.4	29.5	-89.76	355.8	-531.5	778.7	720.6	58.05	13.413	
8,200.0	8,172.1	8,193.4	8,164.1	29.7	29.9	-89.68	356.9	-532.2	779.4	720.7	58.75	13.268	
8,300.0	8,272.1	8,294.4	8,265.0	30.1	30.2	-89.60	358.0	-533.1	780.3	720.9	59.45	13.126	
8,400.0	8,372.1	8,397.4	8,368.0	30.4	30.6	-89.54	358.8	-533.7	780.9	720.8	60.16	12.981	
8,500.0	8,472.1	8,494.2	8,464.9	30.8	30.9	-89.51	359.3	-534.3	781.5	720.6	60.85	12.843	
8,600.0	8,572.1	8,589.8	8,560.5	31.1	31.2	-89.50	359.4	-535.3	782.5	721.0	61.53	12.718	
8,700.0	8,672.1	8,698.4	8,669.1	31.5	31.6	-89.55	358.7	-536.3	783.4	721.2	62.25	12.586	
8,800.0	8,772.1	8,812.6	8,783.2	31.8	31.9	-89.71	356.5	-535.5	782.8	719.8	62.95	12.434	
8,900.0	8,872.1	8,917.5	8,888.0	32.2	32.3	-89.92	353.7	-533.3	780.6	717.0	63.63	12.269	
9,000.0	8,972.1	9,014.7	8,985.2	32.5	32.6	-90.06	351.7	-531.4	778.7	714.4	64.30	12.112	
9,100.0	9,072.1	9,114.7	9,085.2	32.9	32.9	-90.20	349.9	-529.6	776.9	711.9	64.97	11.958	
9,200.0	9,172.1	9,211.8	9,182.3	33.2	33.2	-90.32	348.2	-527.9	775.2	709.6	65.64	11.810	
9,300.0	9,272.1	9,311.8	9,282.2	33.6	33.5	-90.45	346.5	-526.6	773.9	707.6	66.32	11.669	
9,400.0	9,372.1	9,410.9	9,381.3	33.9	33.8	-90.58	344.7	-525.1	772.4	705.4	66.99	11.530	
9,500.0	9,472.1	9,510.5	9,480.9	34.3	34.1	-90.71	343.1	-523.9	771.2	703.5	67.67	11.396	
9,600.0	9,572.1	9,616.7	9,587.0	34.6	34.5	-90.83	341.4	-522.2	769.6	701.2	68.36	11.258	
9,700.0	9,672.1	9,722.7	9,692.9	35.0	34.8	-90.97	339.6	-519.5	767.1	698.0	69.04	11.111	
9,800.0	9,772.1	9,818.8	9,789.0	35.3	35.1	-91.05	338.6	-517.0	764.5	694.8	69.72	10.966	
9,900.0	9,872.1	9,918.2	9,888.4	35.7	35.4	-91.09	338.1	-514.7	762.2	691.8	70.40	10.827	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Fed Com #202H - Wellbore #1 - Actual Surveys													Offset Site Error:	0.0 usft
Survey Program: 172-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,000.0	9,972.1	10,018.1	9,988.3	36.0	35.8	-91.12	337.7	-512.3	759.8	688.7	71.09	10.688		
10,100.0	10,072.1	10,109.4	10,079.6	36.4	36.1	-91.17	337.0	-510.9	758.2	686.5	71.76	10.566		
10,200.0	10,172.1	10,213.3	10,183.5	36.7	36.4	-91.22	336.5	-509.6	757.0	684.6	72.45	10.449		
10,300.0	10,272.1	10,316.9	10,287.0	37.1	36.7	-91.30	335.5	-507.2	754.7	681.6	73.14	10.319		
10,354.9	10,327.0	10,365.8	10,335.9	37.3	36.9	-91.35	334.8	-506.4	753.8	680.3	73.51	10.254		
10,391.5	10,363.6	10,398.1	10,368.3	37.4	37.0	96.81	334.2	-506.0	753.5	679.8	73.74	10.219		
10,400.0	10,372.0	10,405.6	10,375.7	37.4	37.0	96.84	334.1	-506.0	753.6	679.8	73.79	10.212		
10,450.0	10,421.6	10,449.6	10,419.7	37.6	37.2	97.12	333.3	-505.8	754.2	680.1	74.09	10.179		
10,500.0	10,470.5	10,496.2	10,466.3	37.7	37.3	97.63	332.4	-506.0	755.7	681.4	74.38	10.161		
10,550.0	10,518.3	10,543.7	10,513.8	37.9	37.5	98.38	331.5	-506.2	758.1	683.4	74.66	10.154		
10,600.0	10,564.7	10,588.7	10,558.8	38.0	37.6	99.24	330.7	-506.5	761.5	686.6	74.92	10.164		
10,650.0	10,609.2	10,631.4	10,601.4	38.1	37.8	100.16	330.0	-506.8	766.2	691.0	75.16	10.194		
10,700.0	10,651.6	10,671.4	10,641.5	38.2	37.9	101.06	329.4	-507.3	772.5	697.1	75.38	10.248		
10,750.0	10,691.5	10,708.6	10,678.6	38.3	38.0	101.84	328.8	-507.9	780.8	705.2	75.58	10.330		
10,800.0	10,728.6	10,743.2	10,713.3	38.3	38.2	102.44	328.2	-508.5	791.2	715.4	75.77	10.442		
10,850.0	10,762.7	10,775.7	10,745.8	38.4	38.3	102.84	327.6	-509.3	804.0	728.1	75.93	10.588		
10,900.0	10,793.5	10,812.6	10,782.6	38.4	38.4	103.32	326.4	-510.2	819.1	743.0	76.11	10.763		
10,950.0	10,820.7	11,047.8	11,010.1	38.5	39.0	113.38	278.9	-498.3	833.7	758.7	75.02	11.113		
11,000.0	10,844.2	11,149.6	11,099.9	38.5	39.3	116.24	232.9	-485.0	844.3	770.4	73.96	11.416		
11,050.0	10,863.7	11,050.0	11,203.8	38.6	39.1	119.74	158.4	-463.7	854.1	782.6	71.53	11.941		
11,100.0	10,879.1	11,384.9	11,273.5	38.7	39.6	121.75	81.8	-445.0	861.3	790.8	70.53	12.212		
11,150.0	10,890.4	11,611.0	11,372.8	38.8	39.9	124.71	-114.8	-405.6	866.2	798.6	67.58	12.817		
11,200.0	10,897.3	11,681.7	11,386.3	38.9	40.1	124.84	-183.4	-395.0	867.2	799.6	67.57	12.835		
11,254.9	10,900.0	11,801.2	11,403.3	39.0	40.4	125.46	-299.9	-375.3	869.6	802.2	67.41	12.901		
11,300.0	10,900.0	11,859.1	11,406.9	39.2	40.5	125.75	-356.8	-365.0	869.4	801.9	67.51	12.879		
11,400.0	10,900.0	11,959.6	11,412.8	39.5	40.9	126.38	-455.5	-346.9	867.0	799.3	67.72	12.804		
11,500.0	10,900.0	12,064.9	11,414.9	39.9	41.3	126.91	-559.4	-330.4	861.5	793.3	68.15	12.640		
11,600.0	10,900.0	12,157.7	11,415.0	40.3	41.8	127.41	-651.3	-316.9	852.9	784.3	68.62	12.430		
11,638.0	10,900.0	12,190.4	11,414.2	40.5	41.9	127.55	-683.7	-313.1	849.3	780.5	68.83	12.340		
11,700.0	10,900.0	12,252.9	11,412.5	40.8	42.3	127.73	-745.8	-306.3	843.3	774.1	69.29	12.172		
11,800.0	10,900.0	12,332.6	11,411.1	41.3	42.8	127.99	-825.1	-297.6	834.3	764.4	69.88	11.939		
11,900.0	10,900.0	12,407.4	11,409.2	41.9	43.2	128.04	-899.7	-293.3	828.7	758.1	70.63	11.733		
12,000.0	10,900.0	12,503.2	11,407.2	42.5	43.9	128.08	-995.4	-289.2	824.6	752.9	71.70	11.501		
12,100.0	10,900.0	12,592.3	11,405.3	43.2	44.5	128.10	-1,084.5	-285.8	821.0	748.2	72.79	11.279		
12,162.4	10,900.0	12,633.8	11,404.5	43.7	44.8	128.06	-1,125.9	-285.4	820.2	746.8	73.38	11.177		
12,200.0	10,900.0	12,666.0	11,404.1	44.0	45.0	128.00	-1,158.1	-285.9	820.5	746.7	73.84	11.111		
12,300.0	10,900.0	12,750.4	11,404.1	44.8	45.7	127.90	-1,242.5	-287.6	822.6	747.5	75.09	10.955		
12,400.0	10,900.0	12,835.7	11,405.8	45.6	46.4	127.89	-1,327.7	-289.3	826.0	749.7	76.34	10.820		
12,500.0	10,900.0	12,917.3	11,407.4	46.5	47.0	127.80	-1,409.2	-292.9	831.4	753.7	77.66	10.705		
12,600.0	10,900.0	13,025.6	11,408.7	47.4	48.0	127.52	-1,517.3	-300.2	838.1	758.6	79.52	10.539		
12,700.0	10,900.0	13,161.8	11,410.5	48.4	49.2	127.46	-1,653.4	-303.2	841.1	759.4	81.70	10.295		
12,800.0	10,900.0	13,264.3	11,412.6	49.4	50.3	127.58	-1,755.9	-302.2	842.2	758.8	83.36	10.104		
12,900.0	10,900.0	13,363.9	11,412.4	50.4	51.3	127.53	-1,855.4	-302.5	843.0	757.9	85.15	9.900		
13,000.0	10,900.0	13,455.4	11,412.3	51.5	52.2	127.45	-1,946.9	-303.4	844.3	757.4	86.90	9.717		
13,100.0	10,900.0	13,545.2	11,414.2	52.6	53.2	127.49	-2,036.8	-304.4	847.1	758.5	88.57	9.564		
13,200.0	10,900.0	13,683.4	11,415.4	53.7	54.7	127.45	-2,174.9	-305.8	849.4	758.3	91.12	9.322		
13,300.0	10,900.0	13,804.0	11,415.8	54.9	56.1	127.68	-2,295.3	-299.9	846.3	753.1	93.21	9.079		
13,400.0	10,900.0	13,917.4	11,413.9	56.0	57.4	127.80	-2,408.5	-293.6	841.4	746.0	95.32	8.826		
13,500.0	10,900.0	14,006.4	11,412.5	57.2	58.5	127.90	-2,497.4	-288.7	836.7	739.6	97.12	8.615		
13,600.0	10,900.0	14,104.4	11,413.5	58.5	59.7	128.18	-2,595.2	-282.6	833.0	734.0	98.92	8.420		
13,700.0	10,900.0	14,201.7	11,414.4	59.7	60.9	128.50	-2,692.2	-275.5	828.4	727.7	100.69	8.227		
13,770.0	10,900.0	14,242.8	11,414.9	60.6	61.4	128.58	-2,733.3	-273.9	827.2	725.6	101.62	8.140		

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Fed Com #202H - Wellbore #1 - Actual Surveys												Offset Site Error:	0.0 usft
Survey Program: 172-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	10,900.0	14,260.5	11,415.2	61.0	61.7	128.60	-2,750.9	-273.7	827.4	725.4	102.02	8.111	
13,900.0	10,900.0	14,352.5	11,416.9	62.2	62.8	128.63	-2,842.9	-274.5	829.9	725.9	103.99	7.981	
14,000.0	10,900.0	14,467.6	11,416.6	63.5	64.3	128.50	-2,958.0	-276.3	831.6	725.0	106.58	7.802	
14,100.0	10,900.0	14,555.4	11,415.5	64.9	65.4	128.33	-3,045.9	-278.1	833.0	724.3	108.73	7.661	
14,200.0	10,900.0	14,665.2	11,413.4	66.2	66.9	128.08	-3,155.6	-280.5	834.1	722.7	111.41	7.487	
14,300.0	10,900.0	14,734.5	11,413.9	67.5	67.8	128.02	-3,224.9	-282.0	836.9	723.8	113.11	7.399	
14,400.0	10,900.0	14,879.7	11,415.2	68.9	69.7	128.01	-3,370.0	-283.0	838.4	722.1	116.31	7.208	
14,500.0	10,900.0	14,983.2	11,413.9	70.3	71.1	127.94	-3,473.5	-282.1	837.6	718.8	118.77	7.052	
14,600.0	10,900.0	15,100.3	11,412.8	71.6	72.7	127.98	-3,590.5	-278.9	835.5	714.2	121.35	6.885	
14,700.0	10,900.0	15,202.7	11,412.3	73.0	74.2	128.13	-3,692.8	-273.9	831.9	708.3	123.58	6.732	
14,800.0	10,900.0	15,300.7	11,411.7	74.4	75.5	128.26	-3,790.7	-269.3	828.5	702.7	125.77	6.587	
14,900.0	10,900.0	15,383.2	11,410.5	75.8	76.7	128.27	-3,873.1	-267.0	826.1	698.2	127.84	6.462	
14,955.8	10,900.0	15,429.1	11,409.9	76.6	77.3	128.22	-3,919.1	-266.9	825.8	696.7	129.04	6.400	
15,000.0	10,900.0	15,467.1	11,409.4	77.3	77.9	128.17	-3,957.0	-267.1	825.9	695.9	130.03	6.352	
15,100.0	10,900.0	15,542.3	11,409.2	78.7	78.9	128.07	-4,032.2	-268.6	827.9	695.9	132.02	6.271	
15,200.0	10,900.0	15,617.7	11,412.4	80.1	80.0	128.12	-4,107.5	-271.0	833.5	699.8	133.76	6.232	
15,300.0	10,900.0	15,729.9	11,419.6	81.6	81.6	128.39	-4,219.4	-273.0	839.6	703.4	136.17	6.166	
15,400.0	10,900.0	15,400.0	11,424.6	83.0	76.8	128.63	-4,352.3	-272.7	842.1	708.7	133.42	6.312	
15,500.0	10,900.0	15,998.6	11,422.8	84.5	85.5	128.61	-4,488.0	-269.8	839.9	697.6	142.21	5.906	
15,600.0	10,900.0	16,103.6	11,419.8	86.0	87.0	128.54	-4,592.8	-266.8	836.4	691.6	144.86	5.774	
15,700.0	10,900.0	16,201.6	11,418.2	87.5	88.5	128.58	-4,690.8	-263.1	833.1	685.8	147.25	5.658	
15,800.0	10,900.0	16,299.4	11,417.3	88.9	89.9	128.68	-4,788.5	-259.0	829.8	680.2	149.58	5.548	
15,900.0	10,900.0	16,385.6	11,418.1	90.4	91.2	128.87	-4,874.6	-254.9	827.3	675.8	151.56	5.459	
15,947.3	10,900.0	16,421.5	11,418.5	91.1	91.8	128.92	-4,910.5	-254.0	827.0	674.5	152.45	5.425	
16,000.0	10,900.0	16,466.0	11,418.8	91.9	92.4	128.93	-4,955.0	-253.8	827.3	673.8	153.57	5.387	
16,100.0	10,900.0	16,565.8	11,420.1	93.4	93.9	128.98	-5,054.7	-253.4	828.5	672.5	156.00	5.311	
16,200.0	10,900.0	16,678.7	11,421.3	94.9	95.6	129.06	-5,167.6	-252.1	828.9	670.2	158.66	5.224	
16,300.0	10,900.0	16,787.0	11,419.6	96.4	97.2	128.99	-5,275.9	-250.9	827.6	666.1	161.44	5.126	
16,400.0	10,900.0	16,882.3	11,417.8	98.0	98.7	128.90	-5,371.2	-249.9	826.2	662.2	164.01	5.037	
16,500.0	10,900.0	16,985.3	11,418.2	99.5	100.2	128.99	-5,474.2	-247.6	825.3	658.8	166.47	4.958	
16,600.0	10,900.0	17,086.9	11,418.3	101.0	101.8	129.09	-5,575.7	-244.7	823.7	654.9	168.89	4.878	
16,700.0	10,900.0	17,194.0	11,417.1	102.5	103.4	129.09	-5,682.8	-242.3	821.9	650.3	171.56	4.791	
16,800.0	10,900.0	17,298.9	11,415.1	104.1	105.0	129.07	-5,787.7	-239.5	819.2	645.0	174.23	4.702	
16,900.0	10,900.0	17,385.0	11,412.6	105.6	106.3	128.95	-5,873.7	-238.6	817.1	640.3	176.75	4.623	
16,960.4	10,900.0	17,434.8	11,410.9	106.5	107.1	128.81	-5,923.5	-239.1	816.7	638.4	178.31	4.580	
17,000.0	10,900.0	17,467.4	11,410.2	107.1	107.6	128.75	-5,956.1	-239.6	816.9	637.6	179.28	4.556	
17,100.0	10,900.0	17,558.1	11,409.5	108.7	108.9	128.60	-6,046.7	-241.3	818.4	636.5	181.88	4.500	
17,200.0	10,900.0	17,661.1	11,409.4	110.2	110.5	128.48	-6,149.7	-243.1	820.3	635.6	184.73	4.441	
17,300.0	10,900.0	17,759.1	11,410.7	111.8	112.0	128.50	-6,247.6	-243.5	822.1	634.8	187.24	4.391	
17,400.0	10,900.0	17,862.1	11,411.9	113.3	113.6	128.51	-6,350.7	-244.0	823.8	633.9	189.89	4.338	
17,500.0	10,900.0	17,963.5	11,412.8	114.9	115.2	128.51	-6,452.0	-244.4	825.3	632.7	192.51	4.287	
17,600.0	10,900.0	18,067.3	11,413.6	116.4	116.8	128.53	-6,555.9	-244.3	826.2	631.0	195.18	4.233	
17,700.0	10,900.0	18,161.2	11,412.4	118.0	118.2	128.36	-6,649.8	-246.0	827.5	629.6	197.96	4.180	
17,800.0	10,900.0	18,264.0	11,411.3	119.5	119.8	128.17	-6,752.5	-248.3	829.2	628.2	200.99	4.125	
17,900.0	10,900.0	18,377.1	11,411.6	121.1	121.5	128.15	-6,865.6	-248.0	829.7	625.8	203.92	4.069	
18,000.0	10,900.0	18,491.0	11,409.4	122.7	123.3	128.04	-6,979.4	-247.0	828.4	621.4	207.03	4.001	
18,100.0	10,900.0	18,595.6	11,406.2	124.2	125.0	127.89	-7,084.0	-245.6	826.1	616.1	210.03	3.933	
18,200.0	10,900.0	18,680.7	11,403.8	125.8	126.3	127.78	-7,169.1	-244.6	824.1	611.5	212.63	3.876	
18,224.8	10,900.0	18,699.6	11,403.6	126.2	126.6	127.76	-7,187.9	-244.5	824.0	610.8	213.19	3.865	
18,300.0	10,900.0	18,769.7	11,403.7	127.4	127.7	127.74	-7,258.1	-244.5	824.5	609.4	215.12	3.833	
18,400.0	10,900.0	18,875.3	11,402.3	129.0	129.3	127.61	-7,363.7	-245.1	824.8	606.6	218.15	3.781	
18,500.0	10,900.0	18,975.8	11,400.5	130.5	130.9	127.46	-7,464.2	-245.5	824.6	603.5	221.12	3.729	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Fed Com #202H - Wellbore #1 - Actual Surveys												Offset Site Error:	0.0 usft
Survey Program: 172-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	
18,534.6	10,900.0	19,009.7	11,399.9	131.1	131.4	127.41	-7,498.0	-245.7	824.6	602.4	222.13	3.712	
18,600.0	10,900.0	19,064.3	11,399.8	132.1	132.3	127.38	-7,552.6	-245.8	825.0	601.3	223.68	3.688	
18,700.0	10,900.0	19,158.1	11,402.3	133.7	133.8	127.50	-7,646.4	-245.5	826.9	601.0	225.96	3.660	
18,800.0	10,900.0	19,259.2	11,404.6	135.3	135.4	127.60	-7,747.5	-245.4	828.9	600.4	228.45	3.628	
18,900.0	10,900.0	19,354.6	11,407.5	136.9	136.9	127.74	-7,842.8	-245.0	831.0	600.3	230.70	3.602	
19,000.0	10,900.0	19,471.0	11,411.7	138.4	138.7	128.00	-7,959.1	-243.5	832.9	599.6	233.22	3.571	
19,100.0	10,900.0	19,568.8	11,412.7	140.0	140.2	128.05	-8,056.9	-242.7	833.4	597.7	235.73	3.536	
19,200.0	10,900.0	19,679.6	11,411.6	141.6	142.0	127.97	-8,167.7	-242.4	833.2	594.4	238.82	3.489	
19,220.0	10,900.0	19,695.1	11,411.3	141.9	142.2	127.94	-8,183.2	-242.4	833.1	593.8	239.31	3.481	
19,300.0	10,900.0	19,759.0	11,410.9	143.2	143.2	127.87	-8,247.1	-243.1	834.0	592.8	241.22	3.457	
19,400.0	10,900.0	19,877.5	11,408.0	144.8	145.1	127.60	-8,365.5	-245.0	834.3	589.4	244.93	3.406	
19,412.7	10,900.0	19,887.9	11,407.8	145.0	145.3	127.58	-8,376.0	-245.1	834.3	589.0	245.27	3.401	
19,500.0	10,900.0	19,969.0	11,408.3	146.4	146.6	127.59	-8,457.0	-245.0	835.0	587.5	247.46	3.374	
19,600.0	10,900.0	20,109.5	11,408.3	148.0	148.8	127.72	-8,597.4	-240.7	833.1	582.5	250.53	3.325	
19,700.0	10,900.0	20,194.2	11,405.1	149.6	150.1	127.63	-8,682.1	-238.2	829.3	576.0	253.24	3.275	
19,800.0	10,900.0	20,294.4	11,405.3	151.2	151.7	127.72	-8,782.2	-235.6	827.9	572.1	255.73	3.237	
19,900.0	10,900.0	20,390.4	11,402.8	152.8	153.3	127.63	-8,878.2	-233.6	825.3	566.7	258.58	3.192	
20,000.0	10,900.0	20,499.9	11,400.9	154.4	155.0	127.58	-8,987.6	-231.6	823.4	561.9	261.53	3.149	
20,100.0	10,900.0	20,579.2	11,400.5	156.0	156.3	127.63	-9,066.8	-229.2	821.4	557.6	263.77	3.114	
20,113.8	10,900.0	20,589.3	11,400.5	156.2	156.4	127.63	-9,076.9	-229.1	821.4	557.3	264.06	3.111	
20,200.0	10,900.0	20,682.9	11,400.3	157.6	157.9	127.61	-9,170.6	-228.7	821.5	554.9	266.59	3.082	
20,300.0	10,900.0	20,815.4	11,393.7	159.2	160.1	127.23	-9,302.9	-228.0	818.7	548.1	270.65	3.025	
20,400.0	10,900.0	20,888.8	11,391.6	160.8	161.2	127.14	-9,376.2	-226.6	815.9	542.7	273.25	2.986	
20,500.0	10,900.0	20,985.3	11,391.3	162.4	162.8	127.19	-9,472.7	-224.4	814.6	538.8	275.78	2.954	
20,600.0	10,900.0	21,075.6	11,392.7	164.0	164.2	127.34	-9,562.9	-222.0	814.0	536.1	277.93	2.929	
20,648.8	10,900.0	21,132.2	11,394.8	164.8	165.1	127.53	-9,619.5	-219.8	813.8	534.9	278.94	2.918	
20,700.0	10,900.0	21,194.9	11,395.2	165.6	166.1	127.62	-9,682.2	-217.7	813.0	532.7	280.29	2.901	
20,800.0	10,900.0	21,307.2	11,391.4	167.2	167.9	127.50	-9,794.3	-214.8	809.5	526.0	283.48	2.856	
20,900.0	10,900.0	21,402.9	11,390.3	168.8	169.5	127.58	-9,889.9	-210.7	806.0	520.0	285.94	2.819	
21,000.0	10,900.0	21,500.2	11,392.2	170.4	171.1	127.93	-9,987.0	-204.5	802.7	515.0	287.72	2.790	
21,070.7	10,900.0	21,547.0	11,393.3	171.6	171.8	128.11	-10,033.7	-201.5	801.0	512.2	288.74	2.774 SF	
21,100.0	10,900.0	21,547.0	11,393.3	172.0	171.8	128.11	-10,033.7	-201.5	801.5	512.8	288.71	2.776	
21,201.2	10,900.0	21,547.0	11,393.3	173.7	171.8	128.11	-10,033.7	-201.5	811.5	525.6	285.95	2.838	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 172-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	-90.42	-1.0	-140.0	140.0				
100.0	100.0	100.4	100.4	0.1	0.2	-90.36	-0.9	-139.5	139.5	139.2	0.29	488.335	
200.0	200.0	201.3	201.3	0.5	0.4	-90.18	-0.4	-138.0	138.1	137.2	0.86	161.422	
300.0	300.0	301.4	301.4	0.8	0.7	-90.04	-0.1	-136.3	136.3	134.8	1.57	86.911	
400.0	400.0	401.4	401.3	1.2	1.1	-89.93	0.2	-134.6	134.6	132.3	2.28	58.917	
500.0	500.0	501.4	501.4	1.6	1.4	-89.84	0.4	-132.9	132.9	129.9	3.00	44.270	
600.0	600.0	601.5	601.4	1.9	1.8	-89.85	0.3	-131.0	131.0	127.3	3.72	35.239	
700.0	700.0	700.8	700.7	2.3	2.2	-89.96	0.1	-129.4	129.4	124.9	4.43	29.191	
800.0	800.0	800.1	800.0	2.6	2.5	-89.83	0.4	-128.4	128.4	123.2	5.14	24.962	
900.0	900.0	899.4	899.3	3.0	2.9	-89.46	1.2	-127.8	127.9	122.0	5.85	21.854	
1,000.0	1,000.0	999.8	999.6	3.4	3.2	-88.91	2.4	-127.5	127.6	121.0	6.56	19.442	
1,100.0	1,100.0	1,099.7	1,099.6	3.7	3.6	-88.34	3.7	-127.0	127.0	119.7	7.27	17.465	
1,200.0	1,200.0	1,200.5	1,200.3	4.1	3.9	-87.68	5.1	-126.1	126.3	118.3	7.99	15.804	
1,300.0	1,300.0	1,301.2	1,301.0	4.4	4.3	-87.00	6.5	-124.7	124.9	116.2	8.71	14.346	
1,400.0	1,400.0	1,400.7	1,400.5	4.8	4.6	-86.30	8.0	-123.2	123.5	114.1	9.42	13.108	
1,500.0	1,500.0	1,499.9	1,499.7	5.1	5.0	-85.47	9.7	-122.3	122.7	112.6	10.13	12.111	
1,600.0	1,600.0	1,603.5	1,603.2	5.5	5.4	-83.74	13.1	-119.7	120.5	109.6	10.86	11.097	
1,700.0	1,700.0	1,703.9	1,703.4	5.9	5.7	-81.47	17.3	-115.4	116.8	105.2	11.58	10.087	
1,800.0	1,800.0	1,804.6	1,803.9	6.2	6.1	-79.45	20.7	-111.0	113.0	100.7	12.30	9.186	
1,900.0	1,900.0	1,907.0	1,906.1	6.6	6.5	-77.03	24.1	-104.5	107.4	94.4	13.02	8.255	
2,000.0	2,000.0	2,008.3	2,006.9	6.9	6.8	-73.10	29.0	-95.5	100.1	86.3	13.73	7.286	
2,100.0	2,100.0	2,108.4	2,106.3	7.3	7.2	-67.82	34.6	-84.9	92.0	77.5	14.46	6.361	
2,200.0	2,200.0	2,207.2	2,204.1	7.7	7.6	-60.12	42.2	-73.5	84.9	69.7	15.22	5.578	
2,300.0	2,300.0	2,306.0	2,301.7	8.0	8.0	-49.99	51.5	-61.3	80.1	64.2	15.98	5.014	
2,389.3	2,389.3	2,394.0	2,388.3	8.3	8.3	-38.63	61.4	-49.1	78.6	61.9	16.67	4.714	
2,400.0	2,400.0	2,404.5	2,398.6	8.4	8.4	-37.19	62.6	-47.5	78.6	61.9	16.75	4.693	
2,500.0	2,500.0	2,502.6	2,494.8	8.7	8.8	-23.80	74.4	-32.8	81.4	63.9	17.50	4.654	
2,600.0	2,600.0	2,601.7	2,592.3	9.1	9.2	-47.73	85.8	-18.7	87.5	69.3	18.22	4.801	
2,700.0	2,700.0	2,701.7	2,690.9	9.4	9.6	-39.64	96.0	-5.6	93.8	74.8	18.94	4.949	
2,800.0	2,799.9	2,799.4	2,787.3	9.8	10.0	-33.29	106.0	7.3	100.3	80.7	19.62	5.114	
2,900.0	2,899.7	2,898.7	2,885.0	10.2	10.4	-27.93	117.1	20.8	107.3	87.0	20.32	5.280	
3,000.0	2,999.4	2,998.8	2,983.6	10.5	10.8	-23.99	128.0	33.6	113.1	92.1	21.04	5.376	
3,100.0	3,098.9	3,098.1	3,081.5	10.9	11.3	-20.73	138.8	46.4	117.8	96.0	21.74	5.417	
3,200.0	3,198.3	3,197.7	3,179.7	11.2	11.7	-17.82	149.6	59.6	121.2	98.8	22.45	5.398	
3,300.0	3,297.4	3,296.7	3,277.1	11.6	12.1	-15.08	160.8	73.4	123.9	100.7	23.15	5.353	
3,400.0	3,396.4	3,397.5	3,376.3	12.0	12.5	-12.57	172.3	87.3	126.0	102.1	23.88	5.275	
3,500.0	3,495.5	3,498.3	3,475.5	12.3	13.0	-9.91	182.4	101.1	127.1	102.5	24.62	5.165	
3,600.0	3,594.5	3,597.8	3,573.4	12.7	13.4	-6.36	191.5	116.8	128.7	103.4	25.31	5.085	
3,700.0	3,693.5	3,698.3	3,672.3	13.1	13.9	-2.73	200.3	132.8	130.5	104.5	26.02	5.015	
3,800.0	3,792.5	3,797.6	3,770.0	13.5	14.3	0.59	208.7	148.0	132.3	105.6	26.71	4.952	
3,900.0	3,891.6	3,896.5	3,867.2	13.9	14.7	3.87	217.6	163.7	135.2	107.9	27.39	4.938	
4,000.0	3,990.6	3,996.7	3,965.8	14.2	15.2	6.55	227.5	178.8	138.8	110.7	28.11	4.936	
4,100.0	4,089.6	4,097.9	4,065.6	14.6	15.6	7.89	239.1	191.3	141.7	112.9	28.87	4.910	
4,200.0	4,188.6	4,196.3	4,162.6	15.0	16.0	8.75	250.9	202.7	144.7	115.1	29.56	4.895	
4,300.0	4,287.7	4,293.8	4,258.5	15.4	16.5	9.62	263.5	215.1	149.1	118.9	30.23	4.933	
4,400.0	4,386.7	4,394.0	4,356.8	15.8	16.9	10.41	277.0	228.2	154.3	123.3	30.97	4.982	
4,500.0	4,485.7	4,492.5	4,453.5	16.2	17.3	10.97	291.0	241.1	159.9	128.2	31.67	5.048	
4,600.0	4,584.8	4,593.0	4,552.1	16.6	17.8	11.37	305.5	254.0	165.6	133.2	32.43	5.107	
4,700.0	4,683.8	4,693.6	4,650.9	17.0	18.2	12.08	319.1	267.3	170.9	137.7	33.18	5.151	
4,800.0	4,782.8	4,794.0	4,749.6	17.4	18.7	13.09	331.5	281.0	175.9	141.9	33.93	5.183	
4,900.0	4,881.8	4,897.1	4,851.0	17.8	19.1	14.40	343.2	295.3	180.3	145.6	34.74	5.191	
5,000.0	4,980.9	5,001.9	4,954.6	18.2	19.6	16.06	352.0	308.2	181.7	146.1	35.56	5.109	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Fed Com #216H - Wellbore #1 - Actual Surveys												Offset Site Error:	0.0 usft
Survey Program: 172-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	5,079.9	5,105.9	5,057.7	18.6	20.0	17.84	359.2	319.7	181.4	145.1	36.35	4.991	
5,200.0	5,178.9	5,212.2	5,163.5	19.0	20.4	19.69	364.6	328.8	178.2	141.0	37.13	4.799	
5,300.0	5,277.9	5,318.3	5,269.4	19.4	20.8	21.55	368.0	334.6	171.4	133.5	37.86	4.527	
5,400.0	5,377.0	5,420.6	5,371.6	19.8	21.2	23.18	370.5	337.2	162.0	123.4	38.57	4.199	
5,500.0	5,476.0	5,521.9	5,472.9	20.2	21.5	25.11	372.1	338.7	151.3	112.0	39.29	3.851	
5,600.0	5,575.0	5,622.7	5,573.7	20.6	21.8	27.70	372.1	339.5	139.4	99.4	40.01	3.485	
5,700.0	5,674.0	5,721.9	5,672.9	21.0	22.1	30.71	372.1	339.9	127.6	86.8	40.78	3.129	
5,726.0	5,699.8	5,748.3	5,699.2	21.1	22.2	31.59	372.0	339.8	124.5	83.5	40.97	3.038	
5,800.0	5,773.2	5,822.7	5,773.7	21.4	22.4	34.14	371.6	339.2	115.7	74.2	41.52	2.786	
5,900.0	5,872.6	5,922.4	5,873.3	21.7	22.7	37.46	370.7	337.8	105.4	63.1	42.29	2.492	
6,000.0	5,972.3	6,021.8	5,972.8	22.1	23.0	40.70	369.6	336.6	97.5	54.4	43.08	2.264	
6,100.0	6,072.1	6,121.5	6,072.5	22.5	23.3	43.52	368.2	335.3	91.9	48.0	43.86	2.095	
6,200.0	6,172.1	6,221.1	6,172.1	22.8	23.6	45.54	366.7	334.2	88.5	43.9	44.62	1.984	
6,259.3	6,231.4	6,280.2	6,231.2	23.1	23.8	81.19	366.0	333.7	87.6	42.6	45.04	1.945	
6,300.0	6,272.1	6,320.9	6,271.8	23.2	23.9	81.48	365.5	333.4	87.3	41.9	45.33	1.925	
6,400.0	6,372.1	6,421.2	6,372.1	23.5	24.2	82.24	364.2	332.7	86.3	40.3	46.01	1.877	
6,500.0	6,472.1	6,521.0	6,471.8	23.9	24.5	83.01	362.9	331.7	85.2	38.5	46.71	1.824	
6,600.0	6,572.1	6,620.7	6,571.6	24.2	24.8	83.76	361.7	331.1	84.5	37.1	47.41	1.781	
6,700.0	6,672.1	6,720.7	6,671.6	24.6	25.1	84.55	360.5	330.7	83.9	35.8	48.11	1.744	
6,800.0	6,772.1	6,821.2	6,772.1	24.9	25.4	85.48	359.1	329.8	83.0	34.2	48.79	1.700	
6,900.0	6,872.1	6,921.0	6,871.9	25.2	25.7	86.50	357.6	328.9	81.9	32.4	49.51	1.654	
7,000.0	6,972.1	7,021.3	6,972.1	25.6	26.0	87.59	356.0	327.8	80.7	30.5	50.21	1.607	
7,100.0	7,072.1	7,121.2	7,072.0	25.9	26.3	88.69	354.4	326.6	79.5	28.5	50.92	1.560	
7,200.0	7,172.1	7,221.2	7,171.9	26.3	26.6	89.58	353.1	325.5	78.3	26.7	51.62	1.517	
7,300.0	7,272.1	7,321.2	7,272.0	26.6	26.9	90.37	352.1	324.3	77.2	24.8	52.32	1.475 Level 3	
7,400.0	7,372.1	7,421.2	7,372.0	27.0	27.2	91.23	350.9	323.0	75.9	22.9	53.02	1.431 Level 3	
7,500.0	7,472.1	7,521.0	7,471.7	27.3	27.5	92.22	349.7	321.9	74.8	21.0	53.74	1.392 Level 3	
7,600.0	7,572.1	7,620.8	7,571.5	27.7	27.9	93.33	348.3	321.1	74.1	19.6	54.46	1.360 Level 3	
7,700.0	7,672.1	7,720.8	7,671.6	28.0	28.2	94.62	346.6	320.4	73.5	18.3	55.18	1.332 Level 3	
7,800.0	7,772.1	7,820.9	7,771.6	28.4	28.5	96.00	345.0	319.5	72.7	16.8	55.90	1.301 Level 3	
7,900.0	7,872.1	7,920.6	7,871.3	28.7	28.8	97.44	343.2	318.7	72.2	15.5	56.63	1.274 Level 3	
8,000.0	7,972.1	8,020.4	7,971.1	29.1	29.1	99.04	341.3	318.2	72.0	14.6	57.36	1.255 Level 3	
8,024.8	7,996.9	8,045.2	7,995.9	29.1	29.2	99.49	340.7	318.1	72.0	14.4	57.55	1.251 Level 3	
8,100.0	8,072.1	8,120.3	8,070.9	29.4	29.4	100.68	339.2	318.0	72.1	14.0	58.10	1.240 Level 2	
8,200.0	8,172.1	8,220.1	8,170.7	29.7	29.8	101.90	337.6	318.0	72.4	13.6	58.82	1.231 Level 2	
8,300.0	8,272.1	8,320.2	8,270.8	30.1	30.1	102.87	336.3	318.2	72.8	13.3	59.53	1.224 Level 2	
8,400.0	8,372.1	8,420.4	8,371.0	30.4	30.4	103.34	335.7	318.2	73.0	12.8	60.22	1.212 Level 2	
8,500.0	8,472.1	8,520.3	8,470.9	30.8	30.8	103.40	335.6	318.3	73.1	12.2	60.91	1.201 Level 2	
8,600.0	8,572.1	8,620.4	8,571.1	31.1	31.1	103.43	335.5	318.4	73.3	11.7	61.60	1.190 Level 2	
8,700.0	8,672.1	8,721.1	8,671.7	31.5	31.4	103.53	335.5	318.0	72.9	10.6	62.28	1.170 Level 2	
8,800.0	8,772.1	8,821.1	8,771.7	31.8	31.7	104.07	335.1	316.7	71.7	8.8	62.97	1.139 Level 2	
8,851.0	8,823.0	8,871.4	8,822.0	32.0	31.9	104.24	335.0	316.5	71.5	8.2	63.34	1.129 Level 2	
8,900.0	8,872.1	8,920.2	8,870.8	32.2	32.1	104.32	334.9	316.5	71.6	7.9	63.68	1.124 Level 2	
9,000.0	8,972.1	9,020.7	8,971.3	32.5	32.4	104.81	334.2	316.6	71.9	7.5	64.38	1.117 Level 2	
9,100.0	9,072.1	9,120.7	9,071.3	32.9	32.7	106.02	332.9	315.6	71.2	6.1	65.09	1.094 Level 2	
9,129.6	9,101.7	9,150.1	9,100.7	33.0	32.8	106.11	332.8	315.6	71.2	5.9	65.30	1.090 Level 2, CC	
9,200.0	9,172.1	9,220.0	9,170.6	33.2	33.1	105.81	333.1	315.9	71.4	5.6	65.79	1.086 Level 2	
9,300.0	9,272.1	9,320.0	9,270.6	33.6	33.4	104.78	334.1	317.0	72.2	5.8	66.46	1.087 Level 2	
9,400.0	9,372.1	9,420.2	9,370.7	33.9	33.8	103.77	335.2	317.8	72.8	5.7	67.13	1.084 Level 2	
9,500.0	9,472.1	9,520.0	9,470.6	34.3	34.1	102.06	337.3	318.8	73.3	5.5	67.79	1.081 Level 2	
9,600.0	9,572.1	9,620.0	9,570.5	34.6	34.5	99.57	340.3	320.1	74.0	5.6	68.42	1.082 Level 2	
9,700.0	9,672.1	9,719.4	9,669.8	35.0	34.8	96.87	343.6	321.8	75.2	6.1	69.06	1.089 Level 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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Fed Com #216H - Wellbore #1 - Actual Surveys												Offset Site Error:	0.0 usft
Survey Program: 172-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	
9,800.0	9,772.1	9,819.8	9,770.2	35.3	35.2	94.58	346.4	323.5	76.6	6.9	69.70	1.099	Level 2
9,900.0	9,872.1	9,920.3	9,870.7	35.7	35.5	93.08	348.4	324.4	77.4	7.0	70.35	1.100	Level 2
10,000.0	9,972.1	10,020.3	9,970.6	36.0	35.9	91.62	350.4	325.1	78.0	7.0	71.01	1.098	Level 2
10,100.0	10,072.1	10,120.7	10,071.0	36.4	36.2	90.38	352.0	325.6	78.5	6.8	71.67	1.095	Level 2
10,200.0	10,172.1	10,221.2	10,171.5	36.7	36.5	89.29	353.5	325.3	78.1	5.8	72.32	1.080	Level 2
10,300.0	10,272.1	10,321.2	10,271.5	37.1	36.9	88.38	354.7	324.7	77.6	4.6	72.99	1.063	Level 2
10,354.9	10,327.0	10,376.1	10,326.4	37.3	37.1	88.10	355.1	324.4	77.3	3.9	73.37	1.054	Level 2
10,400.0	10,372.0	10,421.0	10,371.3	37.4	37.2	-85.26	355.3	324.2	77.0	3.3	73.63	1.045	Level 2
10,450.0	10,421.6	10,470.4	10,420.7	37.6	37.4	-89.87	355.4	324.1	76.6	2.8	73.83	1.037	Level 2
10,454.0	10,425.6	10,474.4	10,424.7	37.6	37.4	-90.37	355.4	324.1	76.6	2.7	73.85	1.037	Level 2, ES, SF
10,500.0	10,470.5	10,519.2	10,469.5	37.7	37.5	-97.37	355.4	324.1	77.2	3.3	73.96	1.044	Level 2
10,550.0	10,518.3	10,567.0	10,517.3	37.9	37.7	-106.97	355.3	324.1	80.5	6.4	74.09	1.087	Level 2
10,600.0	10,564.7	10,613.6	10,563.9	38.0	37.9	-117.32	355.2	324.1	88.0	13.7	74.28	1.185	Level 2
10,650.0	10,609.2	10,658.4	10,608.7	38.1	38.0	-126.96	355.0	324.1	101.0	26.4	74.60	1.354	Level 3
10,700.0	10,651.6	10,700.9	10,651.2	38.2	38.1	-134.95	354.8	324.0	119.8	44.8	74.99	1.597	
10,750.0	10,691.5	10,741.0	10,691.2	38.3	38.3	-141.13	354.6	324.0	144.0	68.6	75.39	1.910	
10,800.0	10,728.6	10,778.3	10,728.6	38.3	38.4	-145.65	354.5	323.8	173.1	97.3	75.75	2.285	
10,850.0	10,762.7	10,812.6	10,762.9	38.4	38.5	-148.78	354.3	323.7	206.4	130.3	76.07	2.713	
10,900.0	10,793.5	10,843.6	10,793.8	38.4	38.6	-150.72	354.2	323.6	243.2	166.9	76.33	3.187	
10,950.0	10,820.7	10,871.1	10,821.3	38.5	38.7	-151.59	354.0	323.4	283.2	206.7	76.55	3.700	
11,000.0	10,844.2	10,894.8	10,845.1	38.5	38.8	-151.34	353.9	323.2	325.8	249.1	76.73	4.246	
11,050.0	10,863.7	10,914.6	10,864.9	38.6	38.9	-149.73	353.8	323.1	370.6	293.8	76.88	4.821	
11,100.0	10,879.1	10,930.3	10,880.6	38.7	38.9	-146.12	353.7	322.9	417.2	340.2	76.99	5.419	
11,150.0	10,890.4	10,941.9	10,892.2	38.8	38.9	-138.99	353.7	322.8	465.1	388.1	77.07	6.035	
11,200.0	10,897.3	10,949.2	10,899.5	38.9	39.0	-124.63	353.6	322.8	514.0	436.9	77.13	6.664	
11,254.9	10,900.0	10,952.1	10,902.4	39.0	39.0	-92.63	353.6	322.7	568.3	491.1	77.17	7.364	
11,300.0	10,900.0	10,952.4	10,902.6	39.2	39.0	-93.19	353.6	322.7	613.0	535.9	77.19	7.942	
11,400.0	10,900.0	10,952.9	10,903.1	39.5	39.0	-95.60	353.6	322.7	712.7	635.5	77.22	9.230	
11,500.0	10,900.0	10,953.4	10,903.7	39.9	39.0	-106.45	353.6	322.7	812.6	735.4	77.23	10.521	
11,600.0	10,900.0	12,458.5	11,807.9	40.3	42.7	179.01	-553.1	340.0	909.1	873.0	36.04	25.223	
11,638.0	10,900.0	12,490.3	11,808.2	40.5	42.9	178.98	-584.9	340.1	909.4	873.2	36.23	25.100	
11,700.0	10,900.0	12,549.4	11,809.0	40.8	43.2	178.95	-644.0	340.1	910.3	873.7	36.61	24.866	
11,800.0	10,900.0	12,665.4	11,810.2	41.3	43.8	178.87	-760.0	339.6	911.4	874.0	37.41	24.363	
11,819.5	10,900.0	12,689.7	11,810.1	41.4	43.9	178.83	-784.3	339.2	911.3	873.7	37.60	24.239	
11,900.0	10,900.0	12,729.5	11,811.1	41.9	44.2	178.73	-824.1	338.0	913.0	875.1	37.93	24.070	
12,000.0	10,900.0	12,806.5	11,815.4	42.5	44.6	178.47	-900.8	334.3	918.6	879.9	38.69	23.745	
12,100.0	10,900.0	12,919.7	11,821.9	43.2	45.4	178.18	-1,013.8	330.2	924.5	884.9	39.58	23.357	
12,200.0	10,900.0	13,100.6	11,823.3	44.0	46.7	178.12	-1,194.6	330.7	925.5	884.3	41.24	22.445	
12,300.0	10,900.0	13,218.3	11,816.4	44.8	47.7	178.32	-1,312.0	334.9	919.4	877.0	42.40	21.684	
12,400.0	10,900.0	13,289.4	11,813.2	45.6	48.3	178.43	-1,383.0	337.4	914.9	872.1	42.86	21.348	
12,462.4	10,900.0	13,327.4	11,812.7	46.2	48.6	178.47	-1,421.0	338.2	914.1	871.0	43.14	21.188	
12,500.0	10,900.0	13,362.0	11,813.2	46.5	48.9	178.48	-1,455.6	338.7	914.5	871.1	43.47	21.036	
12,600.0	10,900.0	13,440.3	11,815.2	47.4	49.6	178.52	-1,533.8	339.9	916.9	872.6	44.26	20.716	
12,700.0	10,900.0	13,571.1	11,816.5	48.4	50.8	178.69	-1,664.5	343.5	917.8	872.2	45.62	20.121	
12,800.0	10,900.0	13,668.6	11,816.2	49.4	51.8	178.91	-1,762.0	347.9	917.4	870.8	46.62	19.680	
12,900.0	10,900.0	13,768.2	11,815.7	50.4	52.8	179.13	-1,861.5	352.2	916.8	869.2	47.67	19.232	
12,925.1	10,900.0	13,790.2	11,815.7	50.7	53.1	179.17	-1,883.5	353.0	916.8	868.9	47.91	19.137	
13,000.0	10,900.0	13,857.3	11,816.0	51.5	53.8	179.28	-1,950.5	355.3	917.2	868.5	48.63	18.858	
13,100.0	10,900.0	13,952.7	11,817.2	52.6	54.8	179.54	-2,045.8	360.2	918.4	868.7	49.69	18.484	
13,200.0	10,900.0	14,072.9	11,818.1	53.7	56.1	179.61	-2,166.0	362.1	919.2	868.0	51.12	17.981	
13,300.0	10,900.0	14,207.2	11,814.2	54.9	57.6	179.45	-2,300.2	360.7	916.2	863.4	52.88	17.326	
13,400.0	10,900.0	14,266.4	11,812.7	56.0	58.3	179.42	-2,359.3	360.6	913.7	860.3	53.46	17.092	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Fed Com #216H - Wellbore #1 - Actual Surveys												Offset Site Error:	0.0 usft
Survey Program: 172-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	
13,402.0	10,900.0	14,267.5	11,812.7	56.1	58.3	179.42	-2,360.4	360.6	913.7	860.3	53.47	17.088	
13,500.0	10,900.0	14,331.9	11,814.2	57.2	59.1	179.40	-2,424.8	360.8	915.9	861.7	54.25	16.884	
13,600.0	10,900.0	14,425.2	11,818.0	58.5	60.2	179.45	-2,518.0	362.4	919.9	864.5	55.41	16.602	
13,700.0	10,900.0	14,523.1	11,822.6	59.7	61.4	179.57	-2,615.8	364.9	924.7	868.0	56.63	16.328	
13,800.0	10,900.0	14,633.1	11,826.9	61.0	62.7	179.50	-2,725.7	364.6	928.5	870.5	58.04	15.998	
13,900.0	10,900.0	14,712.6	11,829.9	62.2	63.7	179.31	-2,805.1	362.1	932.6	873.4	59.11	15.776	
14,000.0	10,900.0	14,780.0	11,835.5	63.5	64.6	179.15	-2,872.2	360.0	940.6	880.5	60.09	15.654	
14,100.0	10,900.0	14,921.9	11,847.7	64.9	66.4	179.06	-3,013.6	359.4	949.9	888.0	61.89	15.348	
14,200.0	10,900.0	15,022.4	11,850.6	66.2	67.7	179.04	-3,114.1	359.7	952.8	889.6	63.23	15.069	
14,300.0	10,900.0	15,102.2	11,855.8	67.5	68.7	179.06	-3,193.7	360.6	959.2	894.9	64.31	14.915	
14,400.0	10,900.0	15,333.1	11,851.6	68.9	71.8	179.26	-3,424.0	365.7	955.0	887.4	67.53	14.141	
14,500.0	10,900.0	15,402.6	11,847.8	70.3	72.8	179.33	-3,493.4	367.4	949.6	881.2	68.37	13.889	
14,600.0	10,900.0	15,475.3	11,846.4	71.6	73.8	179.37	-3,566.1	368.7	947.5	878.2	69.30	13.672	
14,637.1	10,900.0	15,504.7	11,846.3	72.2	74.2	179.38	-3,595.5	369.2	947.3	877.6	69.69	13.593	
14,700.0	10,900.0	15,554.5	11,846.6	73.0	74.9	179.41	-3,645.3	370.0	947.8	877.4	70.36	13.470	
14,800.0	10,900.0	15,634.2	11,848.6	74.4	76.0	179.44	-3,725.0	371.2	950.3	878.8	71.44	13.301	
14,900.0	10,900.0	15,728.5	11,852.2	75.8	77.3	179.49	-3,819.1	372.6	954.1	881.4	72.74	13.116	
15,000.0	10,900.0	15,843.4	11,856.0	77.3	78.9	179.55	-3,934.0	374.5	957.4	883.0	74.35	12.876	
15,100.0	10,900.0	15,950.2	11,858.3	78.7	80.4	179.65	-4,040.7	377.0	959.5	883.6	75.84	12.651	
15,200.0	10,900.0	16,000.0	11,857.9	80.1	69.7	179.77	-4,174.3	380.0	959.1	887.5	71.62	13.391	
15,300.0	10,900.0	16,169.8	11,855.8	81.6	83.5	179.72	-4,260.2	379.8	956.9	877.9	78.95	12.120	
15,304.6	10,900.0	16,172.6	11,855.8	81.7	83.6	179.72	-4,262.9	379.8	956.9	877.9	78.99	12.114	
15,400.0	10,900.0	16,272.4	11,856.3	83.0	85.0	179.58	-4,362.8	378.3	957.4	877.0	80.44	11.902	
15,449.8	10,900.0	16,317.8	11,856.1	83.8	85.6	179.51	-4,408.2	377.5	957.2	876.1	81.09	11.803	
15,500.0	10,900.0	16,356.9	11,856.3	84.5	86.2	179.47	-4,447.3	377.1	957.4	875.8	81.65	11.727	
15,600.0	10,900.0	16,456.1	11,857.9	86.0	87.6	179.44	-4,546.5	377.3	959.0	875.9	83.07	11.544	
15,700.0	10,900.0	16,575.4	11,858.2	87.5	89.4	179.48	-4,665.7	378.9	959.3	874.5	84.80	11.312	
15,759.0	10,900.0	16,627.0	11,858.1	88.3	90.1	179.51	-4,717.3	379.8	959.1	873.6	85.53	11.213	
15,800.0	10,900.0	16,663.5	11,858.2	88.9	90.7	179.53	-4,753.8	380.5	959.2	873.2	86.05	11.147	
15,900.0	10,900.0	16,783.9	11,857.3	90.4	92.4	179.57	-4,874.2	382.0	958.5	870.7	87.81	10.916	
16,000.0	10,900.0	16,897.2	11,855.0	91.9	94.1	179.53	-4,987.4	382.3	956.5	867.1	89.47	10.691	
16,100.0	10,900.0	16,998.6	11,851.1	93.4	95.6	179.43	-5,088.8	381.4	952.7	861.7	90.96	10.473	
16,200.0	10,900.0	17,076.8	11,849.5	94.9	96.8	179.34	-5,167.0	380.5	950.6	858.5	92.10	10.321	
16,237.8	10,900.0	17,106.0	11,849.4	95.5	97.2	179.31	-5,196.1	380.2	950.4	857.9	92.52	10.273	
16,300.0	10,900.0	17,160.3	11,849.7	96.4	98.0	179.28	-5,250.4	380.1	950.9	857.5	93.31	10.190	
16,400.0	10,900.0	17,269.5	11,850.0	98.0	99.6	179.26	-5,359.7	380.6	951.1	856.2	94.93	10.019	
16,478.5	10,900.0	17,346.7	11,849.8	99.1	100.8	179.31	-5,436.9	382.1	950.9	854.9	96.05	9.900	
16,500.0	10,900.0	17,364.9	11,849.9	99.5	101.1	179.32	-5,455.1	382.4	951.0	854.6	96.32	9.873	
16,600.0	10,900.0	17,466.6	11,850.7	101.0	102.6	179.26	-5,556.7	382.1	951.8	854.0	97.83	9.729	
16,686.4	10,900.0	17,554.7	11,850.2	102.3	103.9	179.12	-5,644.8	380.5	951.3	852.2	99.16	9.594	
16,700.0	10,900.0	17,565.3	11,850.2	102.5	104.1	179.10	-5,655.4	380.3	951.3	852.0	99.32	9.579	
16,800.0	10,900.0	17,653.9	11,851.3	104.1	105.4	179.02	-5,744.0	379.5	952.6	851.9	100.63	9.466	
16,900.0	10,900.0	17,754.1	11,852.7	105.6	107.0	179.00	-5,844.2	380.0	954.0	851.9	102.12	9.342	
17,000.0	10,900.0	17,849.0	11,854.3	107.1	108.4	179.08	-5,939.1	382.0	955.7	852.2	103.50	9.234	
17,100.0	10,900.0	17,951.9	11,856.6	108.7	110.0	179.26	-6,041.9	385.8	957.8	852.8	104.99	9.122	
17,200.0	10,900.0	18,102.0	11,855.7	110.2	112.3	179.43	-6,191.9	389.7	957.4	850.1	107.24	8.927	
17,300.0	10,900.0	18,236.6	11,848.3	111.8	114.3	179.23	-6,326.2	387.6	951.8	842.6	109.24	8.713	
17,400.0	10,900.0	18,333.3	11,841.1	113.3	115.8	179.04	-6,422.6	385.4	944.5	833.8	110.73	8.530	
17,500.0	10,900.0	18,443.6	11,833.3	114.9	117.5	178.81	-6,532.7	382.5	937.5	825.1	112.41	8.340	
17,600.0	10,900.0	18,533.0	11,826.5	116.4	118.9	178.61	-6,621.7	380.0	930.0	816.2	113.83	8.170	
17,700.0	10,900.0	18,638.5	11,819.1	118.0	120.5	178.47	-6,727.0	378.8	923.0	807.6	115.44	7.996	
17,800.0	10,900.0	18,723.7	11,813.4	119.5	121.8	178.44	-6,811.9	379.1	916.4	799.6	116.74	7.849	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Fed Com #216H - Wellbore #1 - Actual Surveys												Offset Site Error:	0.0 usft
Survey Program: 172-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	
17,900.0	10,900.0	18,821.5	11,808.0	121.1	123.4	178.49	-6,909.6	380.9	910.7	792.5	118.20	7.705	
18,000.0	10,900.0	18,898.5	11,804.5	122.7	124.6	178.59	-6,986.5	383.0	906.3	786.9	119.33	7.594	
18,100.0	10,900.0	19,000.2	11,801.9	124.2	126.2	178.77	-7,088.1	386.7	903.6	782.8	120.81	7.479	
18,200.0	10,900.0	19,120.4	11,796.7	125.8	128.0	179.07	-7,208.0	392.6	899.2	776.7	122.52	7.339	
18,300.0	10,900.0	19,233.9	11,789.1	127.4	129.8	179.42	-7,321.1	399.0	892.4	768.3	124.11	7.190	
18,400.0	10,900.0	19,323.4	11,783.6	129.0	131.2	179.73	-7,410.3	404.4	886.1	760.7	125.42	7.065	
18,500.0	10,900.0	19,428.8	11,777.2	130.5	132.9	179.91	-7,515.3	408.1	880.0	753.1	126.97	6.931	
18,600.0	10,900.0	19,541.2	11,769.1	132.1	134.7	179.90	-7,627.5	408.8	872.9	744.3	128.62	6.787	
18,700.0	10,900.0	19,625.4	11,762.6	133.7	136.0	179.95	-7,711.5	410.2	865.2	735.3	129.93	6.659	
18,800.0	10,900.0	19,695.7	11,759.6	135.3	137.1	-179.94	-7,781.7	412.4	860.9	729.9	131.02	6.571	
18,900.0	10,900.0	19,775.9	11,758.4	136.9	138.4	-179.85	-7,861.8	414.4	859.4	727.2	132.20	6.501	
19,000.0	10,900.0	19,905.4	11,756.1	138.4	140.4	-179.91	-7,991.2	414.4	857.7	723.5	134.19	6.392	
19,100.0	10,900.0	20,004.0	11,751.1	140.0	141.9	179.90	-8,089.7	412.4	852.7	717.0	135.71	6.283	
19,200.0	10,900.0	20,075.8	11,749.9	141.6	143.1	179.88	-8,161.5	412.7	850.9	714.1	136.78	6.221	
19,229.7	10,900.0	20,102.2	11,749.8	142.1	143.5	179.91	-8,187.9	413.2	850.8	713.7	137.17	6.203	
19,300.0	10,900.0	20,172.9	11,750.1	143.2	144.6	-179.97	-8,258.6	415.6	851.1	712.8	138.23	6.157	
19,400.0	10,900.0	20,278.0	11,748.7	144.8	146.3	-179.69	-8,363.5	420.6	849.8	710.0	139.81	6.078	
19,418.5	10,900.0	20,291.1	11,748.7	145.1	146.5	-179.66	-8,376.6	421.2	849.7	709.7	140.00	6.069	
19,500.0	10,900.0	20,352.4	11,749.5	146.4	147.5	-179.55	-8,437.9	423.2	850.8	710.0	140.85	6.041	
19,600.0	10,900.0	20,448.2	11,752.1	148.0	149.0	-179.56	-8,533.6	423.9	853.5	711.2	142.29	5.999	
19,700.0	10,900.0	20,556.5	11,754.9	149.6	150.7	-179.75	-8,641.8	421.9	856.1	712.1	144.00	5.945	
19,800.0	10,900.0	20,655.5	11,756.2	151.2	152.3	179.84	-8,740.7	416.5	857.4	711.8	145.55	5.891	
19,900.0	10,900.0	20,788.8	11,759.2	152.8	154.4	179.42	-8,873.8	411.2	860.4	712.6	147.76	5.823	
20,000.0	10,900.0	20,902.2	11,755.2	154.4	156.2	179.42	-8,987.1	412.0	856.7	707.3	149.49	5.731	
20,100.0	10,900.0	20,979.2	11,753.6	156.0	157.4	179.56	-9,064.1	414.8	854.7	704.0	150.62	5.674	
20,124.4	10,900.0	20,997.8	11,753.6	156.4	157.7	179.61	-9,082.6	415.6	854.6	703.7	150.88	5.664	
20,200.0	10,900.0	21,073.1	11,753.6	157.6	158.9	179.77	-9,157.9	418.7	854.6	702.6	152.01	5.622	
20,300.0	10,900.0	21,173.4	11,753.6	159.2	160.5	179.94	-9,258.2	421.9	854.6	701.1	153.52	5.567	
20,400.0	10,900.0	21,311.0	11,750.4	160.8	162.7	179.97	-9,395.7	423.5	852.2	696.6	155.63	5.476	
20,500.0	10,900.0	21,401.8	11,746.7	162.4	164.1	-179.94	-9,486.3	425.4	848.2	691.1	157.02	5.402	
20,600.0	10,900.0	21,479.5	11,745.2	164.0	165.4	-179.70	-9,563.9	429.7	846.2	688.0	158.18	5.350	
20,700.0	10,900.0	21,584.7	11,743.9	165.6	167.1	-179.30	-9,668.9	436.3	845.1	685.3	159.78	5.289	
20,785.4	10,900.0	21,659.4	11,743.4	167.0	168.3	-179.00	-9,743.4	441.2	844.5	683.6	160.91	5.248	
20,800.0	10,900.0	21,671.8	11,743.4	167.2	168.5	-178.95	-9,755.8	442.1	844.5	683.4	161.10	5.242	
20,900.0	10,900.0	21,754.7	11,744.3	168.8	169.8	-178.59	-9,838.5	448.1	845.8	683.5	162.33	5.210	
21,000.0	10,900.0	21,913.8	11,742.1	170.4	172.4	-177.88	-9,997.2	459.6	844.6	679.6	164.92	5.121	
21,075.3	10,900.0	21,950.0	11,740.3	171.6	173.0	-177.72	-10,033.2	462.3	842.0	676.4	165.56	5.086	
21,100.0	10,900.0	21,950.0	11,740.3	172.0	173.0	-177.72	-10,033.2	462.3	842.3	676.9	165.47	5.091	
21,201.2	10,900.0	21,950.0	11,740.3	173.7	173.0	-177.72	-10,033.2	462.3	851.3	687.3	164.05	5.190	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Fed Com #222H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	1.0	-1.0	0.0	0.0	-90.39	-0.8	-110.0	110.0				
100.0	100.0	101.0	99.0	0.1	0.1	-90.39	-0.8	-110.0	110.0	109.8	0.26	423.371	
200.0	200.0	201.0	199.0	0.5	0.5	-90.39	-0.8	-110.0	110.0	109.1	0.98	112.640	
300.0	300.0	301.0	299.0	0.8	0.8	-90.39	-0.8	-110.0	110.0	108.3	1.69	64.962	
400.0	400.0	401.0	399.0	1.2	1.2	-90.39	-0.8	-110.0	110.0	107.6	2.41	45.642	
500.0	500.0	501.0	499.0	1.6	1.6	-90.39	-0.8	-110.0	110.0	106.9	3.13	35.180	
600.0	600.0	601.0	599.0	1.9	1.9	-90.39	-0.8	-110.0	110.0	106.2	3.84	28.620	
700.0	700.0	701.0	699.0	2.3	2.3	-90.39	-0.8	-110.0	110.0	105.5	4.56	24.121	
800.0	800.0	801.0	799.0	2.6	2.6	-90.39	-0.8	-110.0	110.0	104.8	5.28	20.845	
900.0	900.0	901.0	899.0	3.0	3.0	-90.39	-0.8	-110.0	110.0	104.0	6.00	18.352	
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	-90.39	-0.8	-110.0	110.0	103.3	6.71	16.392	
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	-90.39	-0.8	-110.0	110.0	102.6	7.43	14.810	
1,200.0	1,200.0	1,201.0	1,199.0	4.1	4.1	-90.39	-0.8	-110.0	110.0	101.9	8.15	13.507	
1,300.0	1,300.0	1,301.0	1,299.0	4.4	4.4	-90.39	-0.8	-110.0	110.0	101.2	8.86	12.414	
1,400.0	1,400.0	1,401.0	1,399.0	4.8	4.8	-90.39	-0.8	-110.0	110.0	100.5	9.58	11.485	
1,500.0	1,500.0	1,499.0	1,499.0	5.1	5.1	-90.39	-0.8	-110.0	110.0	99.7	10.29	10.693 CC	
1,600.0	1,600.0	1,597.7	1,597.7	5.5	5.5	-90.07	-0.1	-110.6	110.6	99.6	11.00	10.055 ES	
1,700.0	1,700.0	1,696.4	1,696.4	5.9	5.8	-89.12	1.7	-112.3	112.3	100.6	11.71	9.598	
1,800.0	1,800.0	1,794.9	1,794.8	6.2	6.2	-87.59	4.8	-115.1	115.3	102.9	12.41	9.294	
1,900.0	1,900.0	1,893.3	1,893.0	6.6	6.5	-85.58	9.2	-119.1	119.6	106.5	13.11	9.125	
2,000.0	2,000.0	1,991.5	1,990.9	6.9	6.9	-83.21	14.8	-124.2	125.4	111.6	13.81	9.080	
2,100.0	2,100.0	2,089.3	2,088.3	7.3	7.3	-80.59	21.6	-130.4	132.7	118.2	14.50	9.149	
2,200.0	2,200.0	2,186.8	2,185.2	7.7	7.6	-77.87	29.6	-137.7	141.6	126.4	15.19	9.322	
2,300.0	2,300.0	2,283.9	2,281.5	8.0	8.0	-75.13	38.8	-146.1	152.2	136.3	15.87	9.592	
2,400.0	2,400.0	2,382.6	2,379.2	8.4	8.3	-72.52	48.9	-155.4	164.1	147.5	16.57	9.903	
2,500.0	2,500.0	2,481.6	2,477.3	8.7	8.7	-70.25	59.1	-164.7	176.3	159.0	17.28	10.203	
2,600.0	2,600.0	2,580.7	2,575.4	9.1	9.1	-103.45	69.3	-173.9	188.9	170.9	17.99	10.503	
2,700.0	2,700.0	2,679.7	2,673.5	9.4	9.5	-102.31	79.5	-183.2	202.1	183.4	18.70	10.807	
2,800.0	2,799.9	2,778.8	2,771.6	9.8	9.9	-101.74	89.7	-192.5	215.6	196.2	19.41	11.109	
2,900.0	2,899.7	2,877.8	2,869.6	10.2	10.3	-101.66	99.8	-201.8	229.5	209.4	20.13	11.405	
3,000.0	2,999.4	2,976.8	2,967.6	10.5	10.6	-101.97	110.0	-211.1	243.8	223.0	20.84	11.697	
3,100.0	3,098.9	3,075.7	3,065.5	10.9	11.0	-102.61	120.2	-220.4	258.5	236.9	21.57	11.985	
3,200.0	3,198.3	3,174.4	3,163.3	11.2	11.4	-103.51	130.3	-229.6	273.6	251.3	22.29	12.271	
3,300.0	3,297.4	3,273.0	3,260.9	11.6	11.8	-104.64	140.5	-238.9	289.2	266.2	23.03	12.560	
3,400.0	3,396.4	3,371.4	3,358.4	12.0	12.2	-105.95	150.6	-248.1	305.2	281.4	23.76	12.843	
3,500.0	3,495.5	3,469.9	3,456.0	12.3	12.6	-107.13	160.7	-257.4	321.3	296.8	24.50	13.113	
3,600.0	3,594.5	3,568.4	3,553.5	12.7	13.0	-108.20	170.8	-266.6	337.5	312.3	25.25	13.370	
3,700.0	3,693.5	3,666.9	3,651.0	13.1	13.4	-109.17	181.0	-275.8	353.9	327.9	25.99	13.616	
3,800.0	3,792.5	3,765.4	3,748.5	13.5	13.8	-110.05	191.1	-285.1	370.3	343.6	26.74	13.849	
3,900.0	3,891.6	3,863.9	3,846.1	13.9	14.2	-110.86	201.2	-294.3	386.9	359.4	27.49	14.071	
4,000.0	3,990.6	3,962.4	3,943.6	14.2	14.6	-111.61	211.3	-303.6	403.4	375.2	28.25	14.283	
4,100.0	4,089.6	4,060.8	4,041.1	14.6	15.0	-112.29	221.4	-312.8	420.1	391.1	29.00	14.485	
4,200.0	4,188.6	4,159.3	4,138.6	15.0	15.4	-112.92	231.6	-322.0	436.8	407.0	29.76	14.677	
4,300.0	4,287.7	4,257.8	4,236.2	15.4	15.8	-113.51	241.7	-331.3	453.5	423.0	30.52	14.861	
4,400.0	4,386.7	4,356.3	4,333.7	15.8	16.2	-114.05	251.8	-340.5	470.3	439.0	31.28	15.037	
4,500.0	4,485.7	4,454.8	4,431.2	16.2	16.6	-114.56	261.9	-349.8	487.2	455.1	32.04	15.204	
4,600.0	4,584.8	4,553.3	4,528.7	16.6	17.0	-115.03	272.1	-359.0	504.0	471.2	32.80	15.364	
4,700.0	4,683.8	4,651.8	4,626.3	17.0	17.4	-115.47	282.2	-368.2	520.9	487.3	33.57	15.518	
4,800.0	4,782.8	4,750.2	4,723.8	17.4	17.8	-115.88	292.3	-377.5	537.8	503.5	34.34	15.664	
4,900.0	4,881.8	4,848.7	4,821.3	17.8	18.2	-116.27	302.4	-386.7	554.8	519.7	35.10	15.805	
5,000.0	4,980.9	4,947.2	4,918.9	18.2	18.6	-116.64	312.6	-396.0	571.8	535.9	35.87	15.940	
5,100.0	5,079.9	5,049.1	5,019.7	18.6	19.0	-117.00	323.0	-405.4	588.7	552.0	36.67	16.055	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Fed Com #222H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.0	5,178.9	5,161.1	5,131.0	19.0	19.5	-117.52	332.7	-414.3	604.0	566.5	37.54	16.091	
5,300.0	5,277.9	5,273.5	5,243.0	19.4	19.9	-118.22	340.0	-421.0	617.3	578.9	38.39	16.078	
5,400.0	5,377.0	5,386.3	5,355.5	19.8	20.3	-119.09	344.8	-425.4	628.4	589.2	39.22	16.023	
5,500.0	5,476.0	5,499.1	5,468.3	20.2	20.7	-120.14	347.3	-427.6	637.4	597.4	40.02	15.929	
5,600.0	5,575.0	5,604.8	5,574.0	20.6	21.1	-121.25	347.5	-427.9	644.9	604.1	40.78	15.815	
5,700.0	5,674.0	5,703.8	5,673.0	21.0	21.4	-122.28	347.5	-427.9	652.2	610.7	41.51	15.712	
5,726.0	5,699.8	5,729.6	5,698.8	21.1	21.5	-122.55	347.5	-427.9	654.2	612.5	41.70	15.687	
5,800.0	5,773.2	5,803.0	5,772.2	21.4	21.7	-123.31	347.5	-427.9	659.4	617.2	42.24	15.610	
5,900.0	5,872.6	5,902.4	5,871.6	21.7	22.1	-124.15	347.5	-427.9	665.4	622.4	42.97	15.486	
6,000.0	5,972.3	6,002.1	5,971.3	22.1	22.4	-124.78	347.5	-427.9	670.0	626.3	43.68	15.337	
6,100.0	6,072.1	6,101.9	6,071.1	22.5	22.7	-125.20	347.5	-427.9	673.1	628.7	44.39	15.164	
6,200.0	6,172.1	6,201.9	6,171.1	22.8	23.1	-125.42	347.5	-427.9	674.8	629.7	45.09	14.966	
6,259.3	6,231.4	6,261.2	6,230.4	23.1	23.3	-90.43	347.5	-427.9	675.0	629.5	45.50	14.837	
6,300.0	6,272.1	6,301.9	6,271.1	23.2	23.4	-90.43	347.5	-427.9	675.0	629.3	45.78	14.746	
6,400.0	6,372.1	6,401.9	6,371.1	23.5	23.8	-90.43	347.5	-427.9	675.0	628.6	46.47	14.528	
6,500.0	6,472.1	6,501.9	6,471.1	23.9	24.1	-90.43	347.5	-427.9	675.0	627.9	47.16	14.315	
6,600.0	6,572.1	6,601.9	6,571.1	24.2	24.4	-90.43	347.5	-427.9	675.0	627.2	47.85	14.109	
6,700.0	6,672.1	6,701.9	6,671.1	24.6	24.8	-90.43	347.5	-427.9	675.0	626.5	48.54	13.908	
6,800.0	6,772.1	6,801.9	6,771.1	24.9	25.1	-90.43	347.5	-427.9	675.0	625.8	49.23	13.712	
6,900.0	6,872.1	6,901.9	6,871.1	25.2	25.5	-90.43	347.5	-427.9	675.0	625.1	49.92	13.522	
7,000.0	6,972.1	7,001.9	6,971.1	25.6	25.8	-90.43	347.5	-427.9	675.0	624.4	50.61	13.337	
7,100.0	7,072.1	7,101.9	7,071.1	25.9	26.1	-90.43	347.5	-427.9	675.0	623.7	51.31	13.157	
7,200.0	7,172.1	7,201.9	7,171.1	26.3	26.5	-90.43	347.5	-427.9	675.0	623.0	52.00	12.981	
7,300.0	7,272.1	7,301.9	7,271.1	26.6	26.8	-90.43	347.5	-427.9	675.0	622.3	52.70	12.810	
7,400.0	7,372.1	7,401.9	7,371.1	27.0	27.2	-90.43	347.5	-427.9	675.0	621.7	53.39	12.643	
7,500.0	7,472.1	7,501.9	7,471.1	27.3	27.5	-90.43	347.5	-427.9	675.0	621.0	54.09	12.480	
7,600.0	7,572.1	7,601.9	7,571.1	27.7	27.9	-90.43	347.5	-427.9	675.0	620.3	54.79	12.321	
7,700.0	7,672.1	7,701.9	7,671.1	28.0	28.2	-90.43	347.5	-427.9	675.0	619.6	55.48	12.167	
7,800.0	7,772.1	7,801.9	7,771.1	28.4	28.5	-90.43	347.5	-427.9	675.0	618.9	56.18	12.016	
7,900.0	7,872.1	7,901.9	7,871.1	28.7	28.9	-90.43	347.5	-427.9	675.0	618.2	56.88	11.868	
8,000.0	7,972.1	8,001.9	7,971.1	29.1	29.2	-90.43	347.5	-427.9	675.0	617.5	57.58	11.724	
8,100.0	8,072.1	8,101.9	8,071.1	29.4	29.6	-90.43	347.5	-427.9	675.0	616.8	58.28	11.583	
8,200.0	8,172.1	8,201.9	8,171.1	29.7	29.9	-90.43	347.5	-427.9	675.0	616.1	58.98	11.446	
8,300.0	8,272.1	8,301.9	8,271.1	30.1	30.3	-90.43	347.5	-427.9	675.0	615.4	59.68	11.312	
8,400.0	8,372.1	8,401.9	8,371.1	30.4	30.6	-90.43	347.5	-427.9	675.0	614.7	60.38	11.181	
8,500.0	8,472.1	8,501.9	8,471.1	30.8	31.0	-90.43	347.5	-427.9	675.0	614.0	61.08	11.052	
8,600.0	8,572.1	8,601.9	8,571.1	31.1	31.3	-90.43	347.5	-427.9	675.0	613.3	61.78	10.927	
8,700.0	8,672.1	8,701.9	8,671.1	31.5	31.7	-90.43	347.5	-427.9	675.0	612.6	62.48	10.804	
8,800.0	8,772.1	8,801.9	8,771.1	31.8	32.0	-90.43	347.5	-427.9	675.0	611.9	63.18	10.684	
8,900.0	8,872.1	8,901.9	8,871.1	32.2	32.4	-90.43	347.5	-427.9	675.0	611.2	63.88	10.567	
9,000.0	8,972.1	9,001.9	8,971.1	32.5	32.7	-90.43	347.5	-427.9	675.0	610.5	64.59	10.452	
9,100.0	9,072.1	9,101.9	9,071.1	32.9	33.1	-90.43	347.5	-427.9	675.0	609.8	65.29	10.339	
9,200.0	9,172.1	9,201.9	9,171.1	33.2	33.4	-90.43	347.5	-427.9	675.0	609.1	65.99	10.229	
9,300.0	9,272.1	9,301.9	9,271.1	33.6	33.7	-90.43	347.5	-427.9	675.0	608.4	66.70	10.121	
9,400.0	9,372.1	9,401.9	9,371.1	33.9	34.1	-90.43	347.5	-427.9	675.0	607.6	67.40	10.016	
9,500.0	9,472.1	9,501.9	9,471.1	34.3	34.4	-90.43	347.5	-427.9	675.0	606.9	68.10	9.912	
9,600.0	9,572.1	9,601.9	9,571.1	34.6	34.8	-90.43	347.5	-427.9	675.0	606.2	68.81	9.811	
9,700.0	9,672.1	9,701.9	9,671.1	35.0	35.1	-90.43	347.5	-427.9	675.0	605.5	69.51	9.711	
9,800.0	9,772.1	9,801.9	9,771.1	35.3	35.5	-90.43	347.5	-427.9	675.0	604.8	70.22	9.614	
9,900.0	9,872.1	9,901.9	9,871.1	35.7	35.8	-90.43	347.5	-427.9	675.0	604.1	70.92	9.518	
10,000.0	9,972.1	10,001.9	9,971.1	36.0	36.2	-90.43	347.5	-427.9	675.0	603.4	71.63	9.425	
10,100.0	10,072.1	10,101.9	10,071.1	36.4	36.5	-90.43	347.5	-427.9	675.0	602.7	72.33	9.333	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Fed Com #222H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,200.0	10,172.1	10,201.9	10,171.1	36.7	36.9	-90.43	347.5	-427.9	675.0	602.0	73.04	9.242	
10,300.0	10,272.1	10,301.9	10,271.1	37.1	37.2	-90.43	347.5	-427.9	675.0	601.3	73.74	9.154	
10,354.9	10,327.0	10,356.8	10,326.0	37.3	37.4	-90.43	347.5	-427.9	675.0	600.9	74.13	9.106	
10,400.0	10,372.0	10,401.8	10,371.0	37.4	37.6	97.80	347.5	-427.9	675.3	600.8	74.44	9.072	
10,450.0	10,421.6	10,451.4	10,420.6	37.6	37.8	98.22	347.5	-427.9	676.1	601.4	74.76	9.044	
10,500.0	10,470.5	10,500.3	10,469.5	37.7	37.9	98.92	347.5	-427.9	677.7	602.7	75.07	9.028	
10,550.0	10,518.3	10,548.1	10,517.3	37.9	38.1	99.83	347.5	-427.9	680.2	604.9	75.36	9.027	
10,600.0	10,564.7	10,605.5	10,563.7	38.0	38.3	100.91	347.5	-427.9	683.9	608.2	75.67	9.037	
10,650.0	10,609.2	10,639.0	10,608.2	38.1	38.4	102.08	347.5	-427.9	688.9	613.0	75.89	9.078	
10,700.0	10,651.6	10,681.4	10,650.6	38.2	38.6	103.24	347.5	-427.9	695.7	619.6	76.13	9.139	
10,750.0	10,691.5	10,721.3	10,690.5	38.3	38.7	104.30	347.5	-427.9	704.6	628.2	76.34	9.229	
10,800.0	10,728.6	10,758.4	10,727.6	38.3	38.8	105.18	347.5	-427.9	715.8	639.2	76.54	9.351	
10,850.0	10,762.7	10,807.5	10,761.7	38.4	39.0	105.78	347.5	-427.9	729.6	652.8	76.78	9.502	
10,900.0	10,793.5	10,823.3	10,792.5	38.4	39.1	106.00	347.5	-427.9	746.2	669.3	76.88	9.705	
10,950.0	10,820.7	10,850.5	10,819.7	38.5	39.2	105.77	347.5	-427.9	765.6	688.6	77.02	9.941	
11,000.0	10,844.2	10,874.0	10,843.2	38.5	39.3	105.00	347.5	-427.9	788.1	710.9	77.14	10.216	
11,050.0	10,863.7	10,906.5	10,862.7	38.6	39.4	103.61	347.5	-427.9	813.3	736.0	77.28	10.524	
11,100.0	10,879.1	10,908.9	10,878.1	38.7	39.4	101.51	347.5	-427.9	841.3	763.9	77.31	10.882	
11,150.0	10,890.4	10,920.2	10,889.4	38.8	39.4	98.65	347.5	-427.9	871.6	794.3	77.36	11.267	
11,200.0	10,897.3	10,927.1	10,896.3	38.9	39.4	94.97	347.5	-427.9	904.2	826.8	77.39	11.683	
11,254.9	10,900.0	10,929.8	10,899.0	39.0	39.4	90.00	347.5	-427.9	942.0	864.5	77.40	12.169	
11,300.0	10,900.0	10,929.8	10,899.0	39.2	39.4	90.00	347.5	-427.9	974.0	896.6	77.40	12.583	
11,400.0	10,900.0	10,929.8	10,899.0	39.5	39.4	90.00	347.5	-427.9	1,046.8	969.3	77.42	13.521	
11,500.0	10,900.0	10,929.8	10,899.0	39.9	39.4	90.00	347.5	-427.9	1,121.6	1,044.1	77.44	14.483	
11,600.0	10,900.0	10,929.8	10,899.0	40.3	39.4	90.00	347.5	-427.9	1,197.9	1,120.4	77.47	15.463	
11,638.0	10,900.0	10,929.8	10,899.0	40.5	39.4	90.00	347.5	-427.9	1,227.2	1,149.7	77.48	15.839	
11,700.0	10,900.0	10,929.8	10,899.0	40.8	39.4	90.00	347.5	-427.9	1,275.8	1,198.3	77.50	16.461	
11,800.0	10,900.0	10,929.8	10,899.0	41.3	39.4	90.00	347.5	-427.9	1,356.5	1,279.0	77.55	17.493	
11,900.0	10,900.0	10,929.8	10,899.0	41.9	39.4	90.00	347.5	-427.9	1,439.6	1,362.0	77.59	18.554	
12,000.0	10,900.0	13,364.7	12,260.0	42.5	46.8	154.08	-963.6	-302.3	1,513.2	1,460.2	53.00	28.554	
12,100.0	10,900.0	13,464.7	12,260.0	43.2	47.4	154.08	-1,063.6	-301.5	1,513.2	1,459.3	53.91	28.068	
12,200.0	10,900.0	13,564.7	12,260.0	44.0	48.1	154.08	-1,163.6	-300.7	1,513.2	1,458.3	54.89	27.570	
12,300.0	10,900.0	13,664.7	12,260.0	44.8	48.8	154.08	-1,263.6	-299.9	1,513.2	1,457.3	55.92	27.061	
12,400.0	10,900.0	13,764.7	12,260.0	45.6	49.6	154.08	-1,363.5	-299.2	1,513.2	1,456.2	57.00	26.547	
12,500.0	10,900.0	13,864.7	12,260.0	46.5	50.4	154.08	-1,463.5	-298.4	1,513.2	1,455.1	58.14	26.029	
12,600.0	10,900.0	13,964.7	12,260.0	47.4	51.2	154.08	-1,563.5	-297.6	1,513.2	1,453.9	59.32	25.511	
12,700.0	10,900.0	14,064.7	12,260.0	48.4	52.1	154.08	-1,663.5	-296.8	1,513.2	1,452.6	60.54	24.994	
12,800.0	10,900.0	14,164.7	12,260.0	49.4	53.1	154.08	-1,763.5	-296.0	1,513.2	1,451.4	61.81	24.482	
12,900.0	10,900.0	14,264.7	12,260.0	50.4	54.0	154.08	-1,863.5	-295.2	1,513.2	1,450.0	63.11	23.975	
13,000.0	10,900.0	14,364.7	12,260.0	51.5	55.0	154.09	-1,963.5	-294.5	1,513.2	1,448.7	64.46	23.476	
13,100.0	10,900.0	14,464.7	12,260.0	52.6	56.0	154.09	-2,063.5	-293.7	1,513.1	1,447.3	65.83	22.985	
13,200.0	10,900.0	14,564.7	12,260.0	53.7	57.1	154.09	-2,163.5	-292.9	1,513.1	1,445.9	67.24	22.503	
13,300.0	10,900.0	14,664.7	12,260.0	54.9	58.2	154.09	-2,263.5	-292.1	1,513.1	1,444.5	68.68	22.031	
13,400.0	10,900.0	14,764.7	12,260.0	56.0	59.3	154.09	-2,363.5	-291.3	1,513.1	1,443.0	70.15	21.570	
13,500.0	10,900.0	14,864.7	12,260.0	57.2	60.4	154.09	-2,463.5	-290.5	1,513.1	1,441.5	71.65	21.119	
13,600.0	10,900.0	14,964.7	12,260.0	58.5	61.6	154.09	-2,563.5	-289.7	1,513.1	1,439.9	73.17	20.680	
13,700.0	10,900.0	15,064.7	12,260.0	59.7	62.8	154.09	-2,663.5	-289.0	1,513.1	1,438.4	74.71	20.253	
13,800.0	10,900.0	15,164.7	12,260.0	61.0	64.0	154.09	-2,763.5	-288.2	1,513.1	1,436.8	76.28	19.837	
13,900.0	10,900.0	15,264.7	12,260.0	62.2	65.2	154.09	-2,863.5	-287.4	1,513.1	1,435.2	77.86	19.432	
14,000.0	10,900.0	15,364.7	12,260.0	63.5	66.4	154.09	-2,963.5	-286.6	1,513.1	1,433.6	79.47	19.039	
14,100.0	10,900.0	15,464.7	12,260.0	64.9	67.7	154.09	-3,063.5	-285.8	1,513.1	1,432.0	81.10	18.658	
14,200.0	10,900.0	15,564.7	12,260.0	66.2	69.0	154.09	-3,163.5	-285.0	1,513.1	1,430.3	82.74	18.287	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Fed Com #222H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,300.0	10,900.0	15,664.7	12,260.0	67.5	70.3	154.09	-3,263.5	-284.3	1,513.1	1,428.7	84.40	17.928	
14,400.0	10,900.0	15,764.7	12,260.0	68.9	71.6	154.09	-3,363.5	-283.5	1,513.1	1,427.0	86.07	17.579	
14,500.0	10,900.0	15,864.7	12,260.0	70.3	72.9	154.09	-3,463.5	-282.7	1,513.0	1,425.3	87.76	17.241	
14,600.0	10,900.0	15,964.7	12,260.0	71.6	74.2	154.09	-3,563.5	-281.9	1,513.0	1,423.6	89.46	16.913	
14,700.0	10,900.0	16,064.7	12,260.0	73.0	75.6	154.09	-3,663.5	-281.1	1,513.0	1,421.9	91.18	16.594	
14,800.0	10,900.0	16,164.7	12,260.0	74.4	76.9	154.10	-3,763.5	-280.3	1,513.0	1,420.1	92.91	16.286	
14,900.0	10,900.0	16,264.7	12,260.0	75.8	78.3	154.10	-3,863.5	-279.6	1,513.0	1,418.4	94.64	15.986	
15,000.0	10,900.0	16,364.7	12,260.0	77.3	79.7	154.10	-3,963.5	-278.8	1,513.0	1,416.6	96.39	15.696	
15,100.0	10,900.0	16,464.7	12,260.0	78.7	81.0	154.10	-4,063.5	-278.0	1,513.0	1,414.8	98.16	15.414	
15,200.0	10,900.0	16,564.7	12,260.0	80.1	82.4	154.10	-4,163.5	-277.2	1,513.0	1,413.1	99.93	15.141	
15,300.0	10,900.0	16,664.7	12,260.0	81.6	83.9	154.10	-4,263.5	-276.4	1,513.0	1,411.3	101.70	14.876	
15,400.0	10,900.0	16,764.7	12,260.0	83.0	85.3	154.10	-4,363.5	-275.6	1,513.0	1,409.5	103.49	14.619	
15,500.0	10,900.0	16,864.7	12,260.0	84.5	86.7	154.10	-4,463.5	-274.9	1,513.0	1,407.7	105.29	14.370	
15,600.0	10,900.0	16,964.7	12,260.0	86.0	88.1	154.10	-4,563.5	-274.1	1,513.0	1,405.9	107.09	14.127	
15,700.0	10,900.0	17,064.7	12,260.0	87.5	89.6	154.10	-4,663.4	-273.3	1,513.0	1,404.1	108.91	13.892	
15,800.0	10,900.0	17,164.7	12,260.0	88.9	91.0	154.10	-4,763.4	-272.5	1,513.0	1,402.2	110.73	13.664	
15,900.0	10,900.0	17,264.7	12,260.0	90.4	92.5	154.10	-4,863.4	-271.7	1,512.9	1,400.4	112.55	13.442	
16,000.0	10,900.0	17,364.7	12,260.0	91.9	93.9	154.10	-4,963.4	-270.9	1,512.9	1,398.6	114.38	13.227	
16,100.0	10,900.0	17,464.7	12,260.0	93.4	95.4	154.10	-5,063.4	-270.2	1,512.9	1,396.7	116.22	13.018	
16,200.0	10,900.0	17,564.7	12,260.0	94.9	96.9	154.10	-5,163.4	-269.4	1,512.9	1,394.9	118.07	12.814	
16,300.0	10,900.0	17,664.7	12,260.0	96.4	98.4	154.10	-5,263.4	-268.6	1,512.9	1,393.0	119.92	12.616	
16,400.0	10,900.0	17,764.7	12,260.0	98.0	99.8	154.10	-5,363.4	-267.8	1,512.9	1,391.1	121.77	12.424	
16,500.0	10,900.0	17,864.7	12,260.0	99.5	101.3	154.11	-5,463.4	-267.0	1,512.9	1,389.3	123.63	12.237	
16,600.0	10,900.0	17,964.7	12,260.0	101.0	102.8	154.11	-5,563.4	-266.2	1,512.9	1,387.4	125.50	12.055	
16,700.0	10,900.0	18,064.7	12,260.0	102.5	104.3	154.11	-5,663.4	-265.5	1,512.9	1,385.5	127.37	11.878	
16,800.0	10,900.0	18,164.7	12,260.0	104.1	105.8	154.11	-5,763.4	-264.7	1,512.9	1,383.6	129.24	11.706	
16,900.0	10,900.0	18,264.7	12,260.0	105.6	107.3	154.11	-5,863.4	-263.9	1,512.9	1,381.8	131.12	11.538	
17,000.0	10,900.0	18,364.7	12,260.0	107.1	108.9	154.11	-5,963.4	-263.1	1,512.9	1,379.9	133.01	11.374	
17,100.0	10,900.0	18,464.7	12,260.0	108.7	110.4	154.11	-6,063.4	-262.3	1,512.9	1,378.0	134.89	11.215	
17,200.0	10,900.0	18,564.7	12,260.0	110.2	111.9	154.11	-6,163.4	-261.5	1,512.9	1,376.1	136.78	11.060	
17,300.0	10,900.0	18,664.7	12,260.0	111.8	113.4	154.11	-6,263.4	-260.8	1,512.8	1,374.2	138.68	10.909	
17,400.0	10,900.0	18,764.7	12,260.0	113.3	114.9	154.11	-6,363.4	-260.0	1,512.8	1,372.3	140.58	10.762	
17,500.0	10,900.0	18,864.7	12,260.0	114.9	116.5	154.11	-6,463.4	-259.2	1,512.8	1,370.4	142.48	10.618	
17,600.0	10,900.0	18,964.7	12,260.0	116.4	118.0	154.11	-6,563.4	-258.4	1,512.8	1,368.4	144.38	10.478	
17,700.0	10,900.0	19,064.7	12,260.0	118.0	119.5	154.11	-6,663.4	-257.6	1,512.8	1,366.5	146.29	10.341	
17,800.0	10,900.0	19,164.7	12,260.0	119.5	121.1	154.11	-6,763.4	-256.8	1,512.8	1,364.6	148.20	10.208	
17,900.0	10,900.0	19,264.7	12,260.0	121.1	122.6	154.11	-6,863.4	-256.1	1,512.8	1,362.7	150.11	10.078	
18,000.0	10,900.0	19,364.7	12,260.0	122.7	124.2	154.11	-6,963.4	-255.3	1,512.8	1,360.8	152.03	9.951	
18,100.0	10,900.0	19,464.7	12,260.0	124.2	125.7	154.11	-7,063.4	-254.5	1,512.8	1,358.8	153.94	9.827	
18,200.0	10,900.0	19,564.7	12,260.0	125.8	127.3	154.11	-7,163.4	-253.7	1,512.8	1,356.9	155.87	9.706	
18,300.0	10,900.0	19,664.7	12,260.0	127.4	128.8	154.12	-7,263.4	-252.9	1,512.8	1,355.0	157.79	9.587	
18,400.0	10,900.0	19,764.7	12,260.0	129.0	130.4	154.12	-7,363.4	-252.1	1,512.8	1,353.0	159.71	9.472	
18,500.0	10,900.0	19,864.7	12,260.0	130.5	132.0	154.12	-7,463.4	-251.4	1,512.8	1,351.1	161.64	9.359	
18,600.0	10,900.0	19,964.7	12,260.0	132.1	133.5	154.12	-7,563.4	-250.6	1,512.8	1,349.2	163.57	9.248	
18,700.0	10,900.0	20,064.7	12,260.0	133.7	135.1	154.12	-7,663.4	-249.8	1,512.7	1,347.2	165.50	9.140	
18,800.0	10,900.0	20,164.7	12,260.0	135.3	136.6	154.12	-7,763.4	-249.0	1,512.7	1,345.3	167.44	9.035	
18,900.0	10,900.0	20,264.7	12,260.0	136.9	138.2	154.12	-7,863.3	-248.2	1,512.7	1,343.4	169.37	8.931	
19,000.0	10,900.0	20,364.7	12,260.0	138.4	139.8	154.12	-7,963.3	-247.4	1,512.7	1,341.4	171.31	8.830	
19,100.0	10,900.0	20,464.7	12,260.0	140.0	141.4	154.12	-8,063.3	-246.7	1,512.7	1,339.5	173.25	8.731	
19,200.0	10,900.0	20,564.7	12,260.0	141.6	142.9	154.12	-8,163.3	-245.9	1,512.7	1,337.5	175.19	8.634	
19,300.0	10,900.0	20,664.7	12,260.0	143.2	144.5	154.12	-8,263.3	-245.1	1,512.7	1,335.6	177.14	8.540	
19,400.0	10,900.0	20,764.7	12,260.0	144.8	146.1	154.12	-8,363.3	-244.3	1,512.7	1,333.6	179.08	8.447	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Fed Com #222H - Wellbore #1 - BLM Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,500.0	10,900.0	20,864.7	12,260.0	146.4	147.7	154.12	-8,463.3	-243.5	1,512.7	1,331.7	181.03	8.356		
19,600.0	10,900.0	20,964.7	12,260.0	148.0	149.2	154.12	-8,563.3	-242.7	1,512.7	1,329.7	182.98	8.267		
19,700.0	10,900.0	21,064.7	12,260.0	149.6	150.8	154.12	-8,663.3	-241.9	1,512.7	1,327.7	184.93	8.180		
19,800.0	10,900.0	21,164.7	12,260.0	151.2	152.4	154.12	-8,763.3	-241.2	1,512.7	1,325.8	186.88	8.094		
19,900.0	10,900.0	21,264.7	12,260.0	152.8	154.0	154.12	-8,863.3	-240.4	1,512.7	1,323.8	188.83	8.011		
20,000.0	10,900.0	21,364.7	12,260.0	154.4	155.6	154.12	-8,963.3	-239.6	1,512.6	1,321.9	190.78	7.929		
20,100.0	10,900.0	21,464.7	12,260.0	156.0	157.2	154.13	-9,063.3	-238.8	1,512.6	1,319.9	192.74	7.848		
20,200.0	10,900.0	21,564.7	12,260.0	157.6	158.7	154.13	-9,163.3	-238.0	1,512.6	1,317.9	194.69	7.769		
20,300.0	10,900.0	21,664.7	12,260.0	159.2	160.3	154.13	-9,263.3	-237.2	1,512.6	1,316.0	196.65	7.692		
20,400.0	10,900.0	21,764.7	12,260.0	160.8	161.9	154.13	-9,363.3	-236.5	1,512.6	1,314.0	198.61	7.616		
20,500.0	10,900.0	21,864.7	12,260.0	162.4	163.5	154.13	-9,463.3	-235.7	1,512.6	1,312.0	200.57	7.542		
20,600.0	10,900.0	21,964.7	12,260.0	164.0	165.1	154.13	-9,563.3	-234.9	1,512.6	1,310.1	202.53	7.469		
20,700.0	10,900.0	22,064.7	12,260.0	165.6	166.7	154.13	-9,663.3	-234.1	1,512.6	1,308.1	204.49	7.397		
20,800.0	10,900.0	22,164.7	12,260.0	167.2	168.3	154.13	-9,763.3	-233.3	1,512.6	1,306.1	206.46	7.326		
20,900.0	10,900.0	22,264.7	12,260.0	168.8	169.9	154.13	-9,863.3	-232.5	1,512.6	1,304.2	208.42	7.257		
21,000.0	10,900.0	22,364.7	12,260.0	170.4	171.5	154.13	-9,963.3	-231.8	1,512.6	1,302.2	210.39	7.190		
21,058.8	10,900.0	22,423.5	12,260.0	171.4	172.4	154.13	-10,022.1	-231.3	1,512.6	1,301.0	211.54	7.150		
21,100.0	10,900.0	22,424.7	12,260.0	172.0	172.5	154.13	-10,023.3	-231.3	1,513.1	1,301.4	211.65	7.149 SF		
21,201.2	10,900.0	22,424.7	12,260.0	173.7	172.5	154.13	-10,023.3	-231.3	1,519.1	1,307.8	211.35	7.188		

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												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	-105.68	-30.8	-109.7	114.0				
100.0	100.0	100.0	100.0	0.1	0.1	-105.68	-30.8	-109.7	114.0	113.7	0.26	444.617	
200.0	200.0	200.0	200.0	0.5	0.5	-105.68	-30.8	-109.7	114.0	113.0	0.97	117.091	
300.0	300.0	300.0	300.0	0.8	0.8	-105.68	-30.8	-109.7	114.0	112.3	1.69	67.424	
400.0	400.0	400.0	400.0	1.2	1.2	-105.68	-30.8	-109.7	114.0	111.6	2.41	47.342	
500.0	500.0	500.0	500.0	1.6	1.6	-105.68	-30.8	-109.7	114.0	110.8	3.12	36.478	
600.0	600.0	600.0	600.0	1.9	1.9	-105.68	-30.8	-109.7	114.0	110.1	3.84	29.669	
700.0	700.0	700.0	700.0	2.3	2.3	-105.68	-30.8	-109.7	114.0	109.4	4.56	25.002	
800.0	800.0	800.0	800.0	2.6	2.6	-105.68	-30.8	-109.7	114.0	108.7	5.27	21.604	
900.0	900.0	900.0	900.0	3.0	3.0	-105.68	-30.8	-109.7	114.0	108.0	5.99	19.019	
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	-105.68	-30.8	-109.7	114.0	107.2	6.71	16.986	
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	-105.68	-30.8	-109.7	114.0	106.5	7.43	15.346	
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	-105.68	-30.8	-109.7	114.0	105.8	8.14	13.995	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-105.68	-30.8	-109.7	114.0	105.1	8.86	12.863	
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	-105.68	-30.8	-109.7	114.0	104.4	9.58	11.900	
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	-105.68	-30.8	-109.7	114.0	103.7	10.29	11.071	
1,600.0	1,600.0	1,601.5	1,601.5	5.5	5.5	-105.39	-30.1	-109.2	113.3	102.3	11.01	10.286	
1,700.0	1,700.0	1,703.0	1,702.9	5.9	5.9	-104.48	-27.8	-107.7	111.3	99.6	11.73	9.487	
1,800.0	1,800.0	1,804.3	1,804.2	6.2	6.2	-102.90	-24.1	-105.2	108.0	95.6	12.44	8.680	
1,900.0	1,900.0	1,905.5	1,905.1	6.6	6.6	-100.53	-18.9	-101.7	103.6	90.4	13.16	7.873	
2,000.0	2,000.0	2,006.4	2,005.7	6.9	7.0	-97.18	-12.2	-97.2	98.2	84.3	13.87	7.078	
2,100.0	2,100.0	2,106.9	2,105.8	7.3	7.3	-92.59	-4.1	-91.8	92.1	77.5	14.59	6.313	
2,200.0	2,200.0	2,207.1	2,205.4	7.7	7.7	-86.40	5.4	-85.4	85.7	70.4	15.31	5.601	
2,300.0	2,300.0	2,306.9	2,304.3	8.0	8.1	-78.22	16.3	-78.1	79.9	63.8	16.04	4.979	
2,400.0	2,400.0	2,405.9	2,402.3	8.4	8.4	-68.51	27.7	-70.4	75.7	58.9	16.79	4.508	
2,500.0	2,500.0	2,504.9	2,500.3	8.7	8.8	-58.02	39.2	-62.7	73.9	56.4	17.54	4.216	
2,517.9	2,517.9	2,522.7	2,517.9	8.8	8.9	-91.17	41.2	-61.3	73.9	56.2	17.67	4.182 CC	
2,600.0	2,600.0	2,604.1	2,598.5	9.1	9.2	-83.07	50.6	-55.0	74.7	56.4	18.27	4.086	
2,700.0	2,700.0	2,703.4	2,696.9	9.4	9.6	-74.75	62.1	-47.3	77.1	58.1	19.00	4.060	
2,800.0	2,799.9	2,803.0	2,795.5	9.8	10.0	-68.20	73.6	-39.6	80.5	60.7	19.72	4.080	
2,900.0	2,899.7	2,902.7	2,894.2	10.2	10.3	-63.27	85.1	-31.9	83.9	63.5	20.45	4.106	
3,000.0	2,999.4	3,002.5	2,993.0	10.5	10.7	-59.74	96.6	-24.1	87.1	65.9	21.17	4.114	
3,100.0	3,098.9	3,102.4	3,092.0	10.9	11.1	-57.40	108.2	-16.4	89.6	67.7	21.91	4.091	
3,200.0	3,198.3	3,202.3	3,191.0	11.2	11.5	-56.10	119.7	-8.6	91.3	68.6	22.65	4.030	
3,300.0	3,297.4	3,302.3	3,290.0	11.6	11.9	-55.74	131.3	-0.8	92.0	68.6	23.40	3.932	
3,400.0	3,396.4	3,402.3	3,389.0	12.0	12.3	-55.84	142.8	6.9	92.2	68.1	24.16	3.818	
3,500.0	3,495.5	3,502.3	3,488.0	12.3	12.7	-55.94	154.4	14.7	92.5	67.5	24.92	3.711	
3,600.0	3,594.5	3,602.3	3,587.1	12.7	13.1	-56.03	165.9	22.4	92.7	67.0	25.68	3.609	
3,700.0	3,693.5	3,702.3	3,686.1	13.1	13.5	-56.13	177.5	30.2	92.9	66.5	26.45	3.513	
3,800.0	3,792.5	3,802.3	3,785.1	13.5	13.9	-56.23	189.0	38.0	93.1	65.9	27.21	3.422	
3,900.0	3,891.6	3,902.3	3,884.1	13.9	14.3	-56.32	200.6	45.7	93.4	65.4	27.99	3.336	
4,000.0	3,990.6	4,002.3	3,983.2	14.2	14.7	-56.42	212.1	53.5	93.6	64.8	28.76	3.254	
4,100.0	4,089.6	4,102.3	4,082.2	14.6	15.1	-56.51	223.7	61.3	93.8	64.3	29.54	3.177	
4,200.0	4,188.6	4,202.3	4,181.2	15.0	15.6	-56.61	235.2	69.0	94.1	63.7	30.31	3.103	
4,300.0	4,287.7	4,302.3	4,280.3	15.4	16.0	-56.70	246.8	76.8	94.3	63.2	31.09	3.032	
4,400.0	4,386.7	4,402.3	4,379.3	15.8	16.4	-56.80	258.4	84.5	94.5	62.6	31.87	2.965	
4,500.0	4,485.7	4,502.3	4,478.3	16.2	16.8	-56.89	269.9	92.3	94.7	62.1	32.66	2.901	
4,600.0	4,584.8	4,602.3	4,577.3	16.6	17.2	-56.98	281.5	100.1	95.0	61.5	33.44	2.840	
4,700.0	4,683.8	4,702.3	4,676.4	17.0	17.6	-57.07	293.0	107.8	95.2	61.0	34.23	2.782	
4,800.0	4,782.8	4,802.3	4,775.4	17.4	18.0	-57.16	304.6	115.6	95.4	60.4	35.02	2.726	
4,900.0	4,881.8	4,902.3	4,874.4	17.8	18.4	-57.26	316.1	123.3	95.7	59.9	35.80	2.672	
5,000.0	4,980.9	5,003.2	4,974.3	18.2	18.8	-57.59	327.4	130.9	95.6	59.0	36.61	2.612	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Fed Com #226H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.0	5,079.9	5,104.5	5,075.0	18.6	19.2	-59.19	336.6	137.1	94.3	56.8	37.44	2.518	
5,200.0	5,178.9	5,205.6	5,175.8	19.0	19.6	-62.27	343.6	141.8	91.7	53.4	38.28	2.396	
5,300.0	5,277.9	5,306.3	5,276.3	19.4	20.0	-67.07	348.4	145.1	88.3	49.1	39.13	2.256	
5,400.0	5,377.0	5,406.5	5,376.5	19.8	20.3	-73.87	351.0	146.8	84.7	44.7	39.98	2.118	
5,500.0	5,476.0	5,506.0	5,476.0	20.2	20.7	-82.80	351.5	147.1	82.0	41.2	40.80	2.009	
5,574.6	5,549.8	5,579.9	5,549.8	20.5	20.9	-90.00	351.5	147.1	81.3	40.0	41.36	1.966	
5,600.0	5,575.0	5,605.1	5,575.0	20.6	21.0	-92.47	351.5	147.1	81.4	39.9	41.53	1.960	
5,700.0	5,674.0	5,704.1	5,674.0	21.0	21.3	-102.00	351.5	147.1	83.2	41.0	42.17	1.972	
5,726.0	5,699.8	5,729.8	5,699.8	21.1	21.4	-104.39	351.5	147.1	84.0	41.7	42.33	1.985	
5,800.0	5,773.2	5,803.2	5,773.2	21.4	21.7	-110.52	351.5	147.1	86.9	44.2	42.75	2.033	
5,900.0	5,872.6	5,902.6	5,872.6	21.7	22.0	-116.86	351.5	147.1	91.2	47.9	43.32	2.106	
6,000.0	5,972.3	6,002.3	5,972.3	22.1	22.3	-121.24	351.5	147.1	95.2	51.3	43.91	2.167	
6,100.0	6,072.1	6,102.1	6,072.1	22.5	22.7	-124.01	351.5	147.1	98.1	53.6	44.53	2.203	
6,200.0	6,172.1	6,202.1	6,172.1	22.8	23.0	-125.40	351.5	147.1	99.8	54.6	45.19	2.208	
6,259.3	6,231.4	6,261.4	6,231.4	23.1	23.2	-90.58	351.5	147.1	100.0	54.4	45.59	2.194	
6,300.0	6,272.1	6,302.1	6,272.1	23.2	23.3	-90.58	351.5	147.1	100.0	54.2	45.87	2.181	
6,400.0	6,372.1	6,402.1	6,372.1	23.5	23.7	-90.58	351.5	147.1	100.0	53.5	46.56	2.148	
6,500.0	6,472.1	6,502.1	6,472.1	23.9	24.0	-90.58	351.5	147.1	100.0	52.8	47.25	2.117	
6,600.0	6,572.1	6,602.1	6,572.1	24.2	24.4	-90.58	351.5	147.1	100.0	52.1	47.94	2.087	
6,700.0	6,672.1	6,702.1	6,672.1	24.6	24.7	-90.58	351.5	147.1	100.0	51.4	48.63	2.057	
6,800.0	6,772.1	6,802.1	6,772.1	24.9	25.0	-90.58	351.5	147.1	100.0	50.7	49.32	2.028	
6,900.0	6,872.1	6,902.1	6,872.1	25.2	25.4	-90.58	351.5	147.1	100.0	50.0	50.01	2.000	
7,000.0	6,972.1	7,002.1	6,972.1	25.6	25.7	-90.58	351.5	147.1	100.0	49.3	50.70	1.973	
7,100.0	7,072.1	7,102.1	7,072.1	25.9	26.1	-90.58	351.5	147.1	100.0	48.6	51.40	1.946	
7,200.0	7,172.1	7,202.1	7,172.1	26.3	26.4	-90.58	351.5	147.1	100.0	47.9	52.09	1.920	
7,300.0	7,272.1	7,302.1	7,272.1	26.6	26.7	-90.58	351.5	147.1	100.0	47.2	52.79	1.895	
7,400.0	7,372.1	7,402.1	7,372.1	27.0	27.1	-90.58	351.5	147.1	100.0	46.5	53.48	1.870	
7,500.0	7,472.1	7,502.1	7,472.1	27.3	27.4	-90.58	351.5	147.1	100.0	45.8	54.18	1.846	
7,600.0	7,572.1	7,602.1	7,572.1	27.7	27.8	-90.58	351.5	147.1	100.0	45.1	54.87	1.823	
7,700.0	7,672.1	7,702.1	7,672.1	28.0	28.1	-90.58	351.5	147.1	100.0	44.5	55.57	1.800	
7,800.0	7,772.1	7,802.1	7,772.1	28.4	28.5	-90.58	351.5	147.1	100.0	43.8	56.27	1.778	
7,900.0	7,872.1	7,902.1	7,872.1	28.7	28.8	-90.58	351.5	147.1	100.0	43.1	56.96	1.756	
8,000.0	7,972.1	8,002.1	7,972.1	29.1	29.2	-90.58	351.5	147.1	100.0	42.4	57.66	1.735	
8,100.0	8,072.1	8,102.1	8,072.1	29.4	29.5	-90.58	351.5	147.1	100.0	41.7	58.36	1.714	
8,200.0	8,172.1	8,202.1	8,172.1	29.7	29.9	-90.58	351.5	147.1	100.0	41.0	59.06	1.694	
8,300.0	8,272.1	8,302.1	8,272.1	30.1	30.2	-90.58	351.5	147.1	100.0	40.3	59.76	1.674	
8,400.0	8,372.1	8,402.1	8,372.1	30.4	30.6	-90.58	351.5	147.1	100.0	39.6	60.46	1.654	
8,500.0	8,472.1	8,502.1	8,472.1	30.8	30.9	-90.58	351.5	147.1	100.0	38.9	61.16	1.635	
8,600.0	8,572.1	8,602.1	8,572.1	31.1	31.2	-90.58	351.5	147.1	100.0	38.2	61.86	1.617	
8,700.0	8,672.1	8,702.1	8,672.1	31.5	31.6	-90.58	351.5	147.1	100.0	37.5	62.56	1.599	
8,800.0	8,772.1	8,802.1	8,772.1	31.8	31.9	-90.58	351.5	147.1	100.0	36.8	63.26	1.581	
8,900.0	8,872.1	8,902.1	8,872.1	32.2	32.3	-90.58	351.5	147.1	100.0	36.1	63.97	1.564	
9,000.0	8,972.1	9,002.1	8,972.1	32.5	32.6	-90.58	351.5	147.1	100.0	35.4	64.67	1.547	
9,100.0	9,072.1	9,102.1	9,072.1	32.9	33.0	-90.58	351.5	147.1	100.0	34.7	65.37	1.530	
9,200.0	9,172.1	9,202.1	9,172.1	33.2	33.3	-90.58	351.5	147.1	100.0	33.9	66.07	1.514	
9,300.0	9,272.1	9,302.1	9,272.1	33.6	33.7	-90.58	351.5	147.1	100.0	33.2	66.78	1.498 Level 3	
9,400.0	9,372.1	9,402.1	9,372.1	33.9	34.0	-90.58	351.5	147.1	100.0	32.5	67.48	1.482 Level 3	
9,500.0	9,472.1	9,502.1	9,472.1	34.3	34.4	-90.58	351.5	147.1	100.0	31.8	68.18	1.467 Level 3	
9,600.0	9,572.1	9,602.1	9,572.1	34.6	34.7	-90.58	351.5	147.1	100.0	31.1	68.89	1.452 Level 3	
9,700.0	9,672.1	9,702.1	9,672.1	35.0	35.1	-90.58	351.5	147.1	100.0	30.4	69.59	1.437 Level 3	
9,800.0	9,772.1	9,802.1	9,772.1	35.3	35.4	-90.58	351.5	147.1	100.0	29.7	70.30	1.423 Level 3	
9,900.0	9,872.1	9,902.1	9,872.1	35.7	35.8	-90.58	351.5	147.1	100.0	29.0	71.00	1.409 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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Fed Com #226H - Wellbore #1 - BLM Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,000.0	9,972.1	10,002.1	9,972.1	36.0	36.1	-90.58	351.5	147.1	100.0	28.3	71.71	1.395	Level 3	
10,100.0	10,072.1	10,102.1	10,072.1	36.4	36.5	-90.58	351.5	147.1	100.0	27.6	72.41	1.381	Level 3	
10,200.0	10,172.1	10,202.1	10,172.1	36.7	36.8	-90.58	351.5	147.1	100.0	26.9	73.12	1.368	Level 3	
10,300.0	10,272.1	10,302.1	10,272.1	37.1	37.2	-90.58	351.5	147.1	100.0	26.2	73.82	1.355	Level 3	
10,354.9	10,327.0	10,357.0	10,327.0	37.3	37.4	-90.58	351.5	147.1	100.0	25.8	74.21	1.348	Level 3	
10,400.0	10,372.0	10,402.1	10,372.0	37.4	37.5	98.50	351.5	147.1	100.3	25.7	74.54	1.345	Level 3, ES, SF	
10,450.0	10,421.6	10,451.7	10,421.6	37.6	37.7	101.77	351.5	147.1	101.4	26.4	74.92	1.353	Level 3	
10,500.0	10,470.5	10,500.6	10,470.5	37.7	37.9	107.02	351.5	147.1	104.0	28.7	75.33	1.381	Level 3	
10,550.0	10,518.3	10,548.4	10,518.3	37.9	38.1	113.60	351.5	147.1	109.3	33.6	75.73	1.443	Level 3	
10,600.0	10,564.7	10,605.3	10,564.7	38.0	38.3	120.70	351.5	147.1	118.4	42.3	76.14	1.555		
10,650.0	10,609.2	10,639.2	10,609.2	38.1	38.4	127.49	351.5	147.1	132.2	55.8	76.43	1.730		
10,700.0	10,651.6	10,681.6	10,651.6	38.2	38.5	133.42	351.5	147.1	151.0	74.3	76.69	1.969		
10,750.0	10,691.5	10,721.5	10,691.5	38.3	38.7	138.25	351.5	147.1	174.8	97.9	76.90	2.273		
10,800.0	10,728.6	10,758.7	10,728.6	38.3	38.8	141.92	351.5	147.1	203.3	126.2	77.08	2.637		
10,850.0	10,762.7	10,807.2	10,762.7	38.4	39.0	144.49	351.5	147.1	235.8	158.6	77.28	3.052		
10,900.0	10,793.5	10,823.5	10,793.5	38.4	39.0	146.02	351.5	147.1	272.1	194.7	77.36	3.517		
10,950.0	10,820.7	10,850.7	10,820.7	38.5	39.1	146.51	351.5	147.1	311.5	234.0	77.47	4.021		
11,000.0	10,844.2	10,874.2	10,844.2	38.5	39.2	145.83	351.5	147.1	353.6	276.1	77.56	4.560		
11,050.0	10,863.7	10,906.3	10,863.7	38.6	39.3	143.69	351.5	147.1	398.0	320.3	77.67	5.124		
11,100.0	10,879.1	10,909.2	10,879.1	38.7	39.3	139.39	351.5	147.1	444.2	366.5	77.68	5.719		
11,150.0	10,890.4	10,920.4	10,890.4	38.8	39.4	131.50	351.5	147.1	491.8	414.1	77.71	6.329		
11,200.0	10,897.3	10,927.4	10,897.3	38.9	39.4	117.15	351.5	147.1	540.4	462.6	77.72	6.953		
11,254.9	10,900.0	10,930.0	10,900.0	39.0	39.4	90.00	351.5	147.1	594.4	516.7	77.71	7.648		
11,300.0	10,900.0	10,930.0	10,900.0	39.2	39.4	90.00	351.5	147.1	638.8	561.1	77.70	8.221		
11,400.0	10,900.0	10,930.0	10,900.0	39.5	39.4	90.00	351.5	147.1	737.3	659.6	77.68	9.491		
11,500.0	10,900.0	10,930.0	10,900.0	39.9	39.4	90.00	351.5	147.1	835.5	757.9	77.66	10.758		
11,600.0	10,900.0	10,930.0	10,900.0	40.3	39.4	90.00	351.5	147.1	933.6	855.9	77.65	12.023		
11,638.0	10,900.0	10,930.0	10,900.0	40.5	39.4	90.00	351.5	147.1	970.7	893.1	77.64	12.503		
11,700.0	10,900.0	10,930.0	10,900.0	40.8	39.4	90.00	351.5	147.1	1,031.5	953.9	77.63	13.287		
11,800.0	10,900.0	10,930.0	10,900.0	41.3	39.4	90.00	351.5	147.1	1,129.7	1,052.1	77.63	14.553		
11,900.0	10,900.0	10,930.0	10,900.0	41.9	39.4	90.00	351.5	147.1	1,228.2	1,150.6	77.62	15.823		
12,000.0	10,900.0	10,930.0	10,900.0	42.5	39.4	90.00	351.5	147.1	1,327.0	1,249.4	77.62	17.095		
12,100.0	10,900.0	10,930.0	10,900.0	43.2	39.4	90.00	351.5	147.1	1,425.9	1,348.3	77.62	18.369		
12,200.0	10,900.0	10,930.0	10,900.0	44.0	39.4	90.00	351.5	147.1	1,525.0	1,447.3	77.63	19.644		
12,300.0	10,900.0	10,930.0	10,900.0	44.8	39.4	90.00	351.5	147.1	1,624.1	1,546.5	77.64	20.920		
12,400.0	10,900.0	10,930.0	10,900.0	45.6	39.4	90.00	351.5	147.1	1,723.4	1,645.7	77.65	22.196		
12,500.0	10,900.0	14,235.7	12,634.0	46.5	51.5	176.65	-1,459.2	261.4	1,737.0	1,690.9	46.07	37.701		
12,600.0	10,900.0	14,335.7	12,634.0	47.4	52.4	176.65	-1,559.1	262.2	1,737.0	1,689.9	47.05	36.915		
12,700.0	10,900.0	14,435.7	12,634.0	48.4	53.2	176.65	-1,659.1	263.0	1,737.0	1,688.9	48.07	36.138		
12,800.0	10,900.0	14,535.7	12,634.0	49.4	54.1	176.65	-1,759.1	263.7	1,737.0	1,687.9	49.11	35.371		
12,900.0	10,900.0	14,635.7	12,634.0	50.4	55.0	176.65	-1,859.1	264.5	1,737.0	1,686.8	50.18	34.617		
13,000.0	10,900.0	14,735.7	12,634.0	51.5	56.0	176.65	-1,959.1	265.3	1,737.0	1,685.7	51.27	33.877		
13,100.0	10,900.0	14,835.7	12,634.0	52.6	57.0	176.65	-2,059.1	266.1	1,737.0	1,684.6	52.39	33.153		
13,200.0	10,900.0	14,935.7	12,634.0	53.7	58.0	176.65	-2,159.1	266.9	1,737.0	1,683.4	53.54	32.445		
13,300.0	10,900.0	15,035.7	12,634.0	54.9	59.1	176.65	-2,259.1	267.6	1,737.0	1,682.3	54.70	31.754		
13,400.0	10,900.0	15,135.7	12,634.0	56.0	60.2	176.65	-2,359.1	268.4	1,737.0	1,681.1	55.88	31.081		
13,500.0	10,900.0	15,235.7	12,634.0	57.2	61.3	176.65	-2,459.1	269.2	1,737.0	1,679.9	57.09	30.426		
13,600.0	10,900.0	15,335.7	12,634.0	58.5	62.4	176.65	-2,559.1	270.0	1,737.0	1,678.7	58.31	29.789		
13,700.0	10,900.0	15,435.7	12,634.0	59.7	63.6	176.65	-2,659.1	270.7	1,737.0	1,677.4	59.55	29.170		
13,800.0	10,900.0	15,535.7	12,634.0	61.0	64.7	176.65	-2,759.1	271.5	1,737.0	1,676.2	60.80	28.568		
13,900.0	10,900.0	15,635.7	12,634.0	62.2	65.9	176.65	-2,859.1	272.3	1,737.0	1,674.9	62.07	27.985		
14,000.0	10,900.0	15,735.7	12,634.0	63.5	67.1	176.65	-2,959.1	273.1	1,737.0	1,673.6	63.35	27.418		

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Fed Com #226H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,100.0	10,900.0	15,835.7	12,634.0	64.9	68.4	176.65	-3,059.1	273.9	1,737.0	1,672.3	64.64	26.869	
14,200.0	10,900.0	15,935.7	12,634.0	66.2	69.6	176.65	-3,159.1	274.6	1,737.0	1,671.0	65.95	26.337	
14,300.0	10,900.0	16,035.7	12,634.0	67.5	70.9	176.65	-3,259.1	275.4	1,737.0	1,669.7	67.27	25.821	
14,400.0	10,900.0	16,135.7	12,634.0	68.9	72.2	176.65	-3,359.1	276.2	1,737.0	1,668.4	68.60	25.320	
14,500.0	10,900.0	16,235.7	12,634.0	70.3	73.5	176.65	-3,459.1	277.0	1,737.0	1,667.0	69.94	24.835	
14,600.0	10,900.0	16,335.7	12,634.0	71.6	74.8	176.65	-3,559.1	277.7	1,737.0	1,665.7	71.29	24.365	
14,700.0	10,900.0	16,435.7	12,634.0	73.0	76.1	176.66	-3,659.1	278.5	1,737.0	1,664.3	72.65	23.910	
14,800.0	10,900.0	16,535.7	12,634.0	74.4	77.4	176.66	-3,759.1	279.3	1,737.0	1,662.9	74.01	23.468	
14,900.0	10,900.0	16,635.7	12,634.0	75.8	78.8	176.66	-3,859.1	280.1	1,737.0	1,661.6	75.39	23.040	
15,000.0	10,900.0	16,735.7	12,634.0	77.3	80.2	176.66	-3,959.1	280.9	1,737.0	1,660.2	76.77	22.625	
15,100.0	10,900.0	16,835.7	12,634.0	78.7	81.5	176.66	-4,059.1	281.6	1,737.0	1,658.8	78.16	22.222	
15,200.0	10,900.0	16,935.7	12,634.0	80.1	82.9	176.66	-4,159.1	282.4	1,737.0	1,657.4	79.56	21.832	
15,300.0	10,900.0	17,035.7	12,634.0	81.6	84.3	176.66	-4,259.1	283.2	1,737.0	1,656.0	80.96	21.453	
15,400.0	10,900.0	17,135.7	12,634.0	83.0	85.7	176.66	-4,359.1	284.0	1,737.0	1,654.6	82.37	21.086	
15,500.0	10,900.0	17,235.7	12,634.0	84.5	87.1	176.66	-4,459.1	284.7	1,737.0	1,653.2	83.79	20.730	
15,600.0	10,900.0	17,335.7	12,634.0	86.0	88.5	176.66	-4,559.1	285.5	1,737.0	1,651.7	85.21	20.384	
15,700.0	10,900.0	17,435.7	12,634.0	87.5	90.0	176.66	-4,659.1	286.3	1,737.0	1,650.3	86.64	20.048	
15,800.0	10,900.0	17,535.7	12,634.0	88.9	91.4	176.66	-4,759.1	287.1	1,737.0	1,648.9	88.07	19.722	
15,900.0	10,900.0	17,635.7	12,634.0	90.4	92.8	176.66	-4,859.0	287.9	1,737.0	1,647.4	89.51	19.405	
16,000.0	10,900.0	17,735.7	12,634.0	91.9	94.3	176.66	-4,959.0	288.6	1,737.0	1,646.0	90.95	19.098	
16,100.0	10,900.0	17,835.7	12,634.0	93.4	95.7	176.66	-5,059.0	289.4	1,737.0	1,644.6	92.40	18.799	
16,200.0	10,900.0	17,935.7	12,634.0	94.9	97.2	176.66	-5,159.0	290.2	1,736.9	1,643.1	93.85	18.508	
16,300.0	10,900.0	18,035.7	12,634.0	96.4	98.7	176.66	-5,259.0	291.0	1,736.9	1,641.6	95.30	18.226	
16,400.0	10,900.0	18,135.7	12,634.0	98.0	100.1	176.66	-5,359.0	291.7	1,736.9	1,640.2	96.76	17.951	
16,500.0	10,900.0	18,235.7	12,634.0	99.5	101.6	176.66	-5,459.0	292.5	1,736.9	1,638.7	98.22	17.684	
16,600.0	10,900.0	18,335.7	12,634.0	101.0	103.1	176.66	-5,559.0	293.3	1,736.9	1,637.3	99.69	17.424	
16,700.0	10,900.0	18,435.7	12,634.0	102.5	104.6	176.66	-5,659.0	294.1	1,736.9	1,635.8	101.16	17.171	
16,800.0	10,900.0	18,535.7	12,634.0	104.1	106.1	176.66	-5,759.0	294.9	1,736.9	1,634.3	102.63	16.924	
16,900.0	10,900.0	18,635.7	12,634.0	105.6	107.6	176.66	-5,859.0	295.6	1,736.9	1,632.8	104.10	16.685	
17,000.0	10,900.0	18,735.7	12,634.0	107.1	109.1	176.66	-5,959.0	296.4	1,736.9	1,631.4	105.58	16.451	
17,100.0	10,900.0	18,835.7	12,634.0	108.7	110.6	176.66	-6,059.0	297.2	1,736.9	1,629.9	107.06	16.223	
17,200.0	10,900.0	18,935.7	12,634.0	110.2	112.1	176.66	-6,159.0	298.0	1,736.9	1,628.4	108.55	16.002	
17,300.0	10,900.0	19,035.7	12,634.0	111.8	113.6	176.66	-6,259.0	298.7	1,736.9	1,626.9	110.03	15.785	
17,400.0	10,900.0	19,135.7	12,634.0	113.3	115.1	176.66	-6,359.0	299.5	1,736.9	1,625.4	111.52	15.575	
17,500.0	10,900.0	19,235.7	12,634.0	114.9	116.7	176.67	-6,459.0	300.3	1,736.9	1,623.9	113.02	15.369	
17,600.0	10,900.0	19,335.7	12,634.0	116.4	118.2	176.67	-6,559.0	301.1	1,736.9	1,622.4	114.51	15.169	
17,700.0	10,900.0	19,435.7	12,634.0	118.0	119.7	176.67	-6,659.0	301.9	1,736.9	1,620.9	116.01	14.973	
17,800.0	10,900.0	19,535.7	12,634.0	119.5	121.2	176.67	-6,759.0	302.6	1,736.9	1,619.4	117.50	14.782	
17,900.0	10,900.0	19,635.7	12,634.0	121.1	122.8	176.67	-6,859.0	303.4	1,736.9	1,617.9	119.00	14.596	
18,000.0	10,900.0	19,735.7	12,634.0	122.7	124.3	176.67	-6,959.0	304.2	1,736.9	1,616.4	120.51	14.414	
18,100.0	10,900.0	19,835.7	12,634.0	124.2	125.9	176.67	-7,059.0	305.0	1,736.9	1,614.9	122.01	14.236	
18,200.0	10,900.0	19,935.7	12,634.0	125.8	127.4	176.67	-7,159.0	305.7	1,736.9	1,613.4	123.52	14.062	
18,300.0	10,900.0	20,035.7	12,634.0	127.4	129.0	176.67	-7,259.0	306.5	1,736.9	1,611.9	125.02	13.893	
18,400.0	10,900.0	20,135.7	12,634.0	129.0	130.5	176.67	-7,359.0	307.3	1,736.9	1,610.4	126.53	13.727	
18,500.0	10,900.0	20,235.7	12,634.0	130.5	132.1	176.67	-7,459.0	308.1	1,736.9	1,608.9	128.04	13.565	
18,600.0	10,900.0	20,335.7	12,634.0	132.1	133.6	176.67	-7,559.0	308.9	1,736.9	1,607.4	129.56	13.407	
18,700.0	10,900.0	20,435.7	12,634.0	133.7	135.2	176.67	-7,659.0	309.6	1,736.9	1,605.9	131.07	13.252	
18,800.0	10,900.0	20,535.7	12,634.0	135.3	136.7	176.67	-7,759.0	310.4	1,736.9	1,604.3	132.59	13.100	
18,900.0	10,900.0	20,635.7	12,634.0	136.9	138.3	176.67	-7,859.0	311.2	1,736.9	1,602.8	134.10	12.952	
19,000.0	10,900.0	20,735.7	12,634.0	138.4	139.9	176.67	-7,959.0	312.0	1,736.9	1,601.3	135.62	12.807	
19,100.0	10,900.0	20,835.7	12,634.0	140.0	141.4	176.67	-8,059.0	312.7	1,736.9	1,599.8	137.14	12.665	
19,200.0	10,900.0	20,935.7	12,634.0	141.6	143.0	176.67	-8,158.9	313.5	1,736.9	1,598.3	138.66	12.526	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Fed Com #226H - Wellbore #1 - BLM Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,300.0	10,900.0	21,035.7	12,634.0	143.2	144.6	176.67	-8,258.9	314.3	1,736.9	1,596.7	140.19	12.390		
19,400.0	10,900.0	21,135.7	12,634.0	144.8	146.1	176.67	-8,358.9	315.1	1,736.9	1,595.2	141.71	12.257		
19,500.0	10,900.0	21,235.7	12,634.0	146.4	147.7	176.67	-8,458.9	315.9	1,736.9	1,593.7	143.23	12.126		
19,600.0	10,900.0	21,335.7	12,634.0	148.0	149.3	176.67	-8,558.9	316.6	1,736.9	1,592.2	144.76	11.999		
19,700.0	10,900.0	21,435.7	12,634.0	149.6	150.9	176.67	-8,658.9	317.4	1,736.9	1,590.6	146.29	11.873		
19,800.0	10,900.0	21,535.7	12,634.0	151.2	152.4	176.67	-8,758.9	318.2	1,736.9	1,589.1	147.82	11.751		
19,900.0	10,900.0	21,635.7	12,634.0	152.8	154.0	176.67	-8,858.9	319.0	1,736.9	1,587.6	149.35	11.630		
20,000.0	10,900.0	21,735.7	12,634.0	154.4	155.6	176.67	-8,958.9	319.7	1,736.9	1,586.1	150.88	11.512		
20,100.0	10,900.0	21,835.7	12,634.0	156.0	157.2	176.67	-9,058.9	320.5	1,736.9	1,584.5	152.41	11.397		
20,200.0	10,900.0	21,935.7	12,634.0	157.6	158.8	176.67	-9,158.9	321.3	1,736.9	1,583.0	153.94	11.283		
20,300.0	10,900.0	22,035.7	12,634.0	159.2	160.3	176.67	-9,258.9	322.1	1,736.9	1,581.5	155.47	11.172		
20,400.0	10,900.0	22,135.7	12,634.0	160.8	161.9	176.68	-9,358.9	322.9	1,736.9	1,579.9	157.01	11.063		
20,500.0	10,900.0	22,235.7	12,634.0	162.4	163.5	176.68	-9,458.9	323.6	1,736.9	1,578.4	158.54	10.956		
20,600.0	10,900.0	22,335.7	12,634.0	164.0	165.1	176.68	-9,558.9	324.4	1,736.9	1,576.8	160.08	10.851		
20,700.0	10,900.0	22,435.7	12,634.0	165.6	166.7	176.68	-9,658.9	325.2	1,736.9	1,575.3	161.61	10.747		
20,800.0	10,900.0	22,535.7	12,634.0	167.2	168.3	176.68	-9,758.9	326.0	1,736.9	1,573.8	163.15	10.646		
20,900.0	10,900.0	22,635.7	12,634.0	168.8	169.9	176.68	-9,858.9	326.8	1,736.9	1,572.2	164.69	10.547		
21,000.0	10,900.0	22,735.7	12,634.0	170.4	171.5	176.68	-9,958.9	327.5	1,736.9	1,570.7	166.23	10.449		
21,069.4	10,900.0	22,805.1	12,634.0	171.5	172.6	176.68	-10,028.3	328.1	1,736.9	1,569.6	167.30	10.382		
21,100.0	10,900.0	22,796.7	12,634.0	172.0	172.5	176.68	-10,019.9	328.0	1,737.4	1,570.1	167.23	10.389		
21,201.2	10,900.0	22,796.7	12,634.0	173.7	172.5	176.68	-10,019.9	328.0	1,742.6	1,575.4	167.14	10.426		

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #022H - Wellbore #1 - BLM Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	101.70	-29.0	140.2	143.2					
100.0	100.0	100.0	100.0	0.1	0.1	101.70	-29.0	140.2	143.2	142.9	0.26	558.636		
200.0	200.0	200.0	200.0	0.5	0.5	101.70	-29.0	140.2	143.2	142.2	0.97	147.118		
300.0	300.0	300.0	300.0	0.8	0.8	101.70	-29.0	140.2	143.2	141.5	1.69	84.714		
400.0	400.0	400.0	400.0	1.2	1.2	101.70	-29.0	140.2	143.2	140.8	2.41	59.482		
500.0	500.0	500.0	500.0	1.6	1.6	101.70	-29.0	140.2	143.2	140.1	3.12	45.832		
600.0	600.0	600.0	600.0	1.9	1.9	101.70	-29.0	140.2	143.2	139.3	3.84	37.277		
700.0	700.0	700.0	700.0	2.3	2.3	101.70	-29.0	140.2	143.2	138.6	4.56	31.414		
800.0	800.0	800.0	800.0	2.6	2.6	101.70	-29.0	140.2	143.2	137.9	5.27	27.144		
900.0	900.0	900.0	900.0	3.0	3.0	101.70	-29.0	140.2	143.2	137.2	5.99	23.896		
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	101.70	-29.0	140.2	143.2	136.5	6.71	21.343		
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	101.70	-29.0	140.2	143.2	135.8	7.43	19.282		
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	101.70	-29.0	140.2	143.2	135.0	8.14	17.584		
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	101.70	-29.0	140.2	143.2	134.3	8.86	16.161		
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	101.70	-29.0	140.2	143.2	133.6	9.58	14.951		
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	101.70	-29.0	140.2	143.2	132.9	10.29	13.910		
1,600.0	1,600.0	1,600.0	1,600.0	5.5	5.5	101.70	-29.0	140.2	143.2	132.2	11.01	13.004		
1,700.0	1,700.0	1,700.0	1,700.0	5.9	5.9	101.70	-29.0	140.2	143.2	131.5	11.73	12.209		
1,800.0	1,800.0	1,800.0	1,800.0	6.2	6.2	101.70	-29.0	140.2	143.2	130.7	12.44	11.506		
1,900.0	1,900.0	1,900.0	1,900.0	6.6	6.6	101.70	-29.0	140.2	143.2	130.0	13.16	10.879		
2,000.0	2,000.0	2,000.0	2,000.0	6.9	6.9	101.70	-29.0	140.2	143.2	129.3	13.88	10.317		
2,100.0	2,100.0	2,100.0	2,100.0	7.3	7.3	101.70	-29.0	140.2	143.2	128.6	14.60	9.810		
2,200.0	2,200.0	2,200.0	2,200.0	7.7	7.7	101.70	-29.0	140.2	143.2	127.9	15.31	9.351		
2,300.0	2,300.0	2,300.0	2,300.0	8.0	8.0	101.70	-29.0	140.2	143.2	127.2	16.03	8.933		
2,400.0	2,400.0	2,400.0	2,400.0	8.4	8.4	101.70	-29.0	140.2	143.2	126.4	16.75	8.550		
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	101.70	-29.0	140.2	143.2	125.7	17.46	8.199		
2,600.0	2,600.0	2,600.0	2,600.0	9.1	9.1	66.99	-29.0	140.2	142.8	124.7	18.18	7.858		
2,700.0	2,700.0	2,700.0	2,700.0	9.4	9.4	67.97	-29.0	140.2	141.8	122.9	18.89	7.508		
2,800.0	2,799.9	2,800.1	2,799.9	9.8	9.8	69.64	-29.0	140.2	140.3	120.7	19.61	7.154		
2,900.0	2,899.7	2,900.3	2,899.7	10.2	10.2	72.02	-29.0	140.2	138.2	117.9	20.32	6.804		
3,000.0	2,999.4	2,999.4	2,999.4	10.5	10.5	75.18	-29.0	140.2	136.0	115.0	21.03	6.468		
3,100.0	3,098.9	3,100.7	3,100.7	10.9	10.9	79.00	-28.2	139.8	133.2	111.5	21.75	6.125		
3,200.0	3,198.3	3,202.1	3,202.0	11.2	11.2	83.29	-25.9	138.6	129.3	106.9	22.47	5.756		
3,300.0	3,297.4	3,303.3	3,303.1	11.6	11.6	88.23	-21.9	136.5	124.6	101.4	23.18	5.375		
3,400.0	3,396.4	3,404.4	3,404.1	12.0	12.0	93.54	-16.3	133.7	119.2	95.4	23.89	4.992		
3,500.0	3,495.5	3,505.5	3,504.9	12.3	12.3	98.99	-9.2	130.0	113.3	88.7	24.59	4.609		
3,600.0	3,594.5	3,606.6	3,605.5	12.7	12.7	104.78	-0.5	125.5	106.8	81.5	25.28	4.225		
3,700.0	3,693.5	3,707.5	3,705.7	13.1	13.1	111.10	9.7	120.2	99.8	73.8	25.97	3.842		
3,800.0	3,792.5	3,808.2	3,805.5	13.5	13.4	118.28	21.5	114.1	92.3	65.7	26.65	3.464		
3,900.0	3,891.6	3,907.0	3,903.4	13.9	13.8	126.47	33.8	107.8	85.8	58.4	27.38	3.133		
4,000.0	3,990.6	4,006.0	4,001.4	14.2	14.2	135.77	46.0	101.5	81.3	53.2	28.12	2.892		
4,100.0	4,089.6	4,104.9	4,099.4	14.6	14.5	145.83	58.2	95.1	79.2	50.4	28.86	2.745		
4,131.5	4,120.8	4,136.1	4,130.2	14.7	14.6	149.07	62.1	93.2	79.1	50.0	29.09	2.718 CC, ES		
4,200.0	4,188.6	4,203.9	4,197.4	15.0	14.9	156.10	70.5	88.8	79.7	50.1	29.61	2.692 SF		
4,300.0	4,287.7	4,302.9	4,295.4	15.4	15.3	165.93	82.7	82.5	82.7	52.3	30.36	2.724		
4,400.0	4,386.7	4,401.8	4,393.4	15.8	15.6	174.85	94.9	76.2	88.0	56.9	31.11	2.828		
4,500.0	4,485.7	4,500.8	4,491.4	16.2	16.0	-177.39	107.2	69.9	95.2	63.3	31.87	2.986		
4,600.0	4,584.8	4,600.2	4,589.4	16.6	16.4	-170.81	119.4	63.5	103.9	71.2	32.63	3.183		
4,700.0	4,683.8	4,701.3	4,687.4	17.0	16.8	-165.29	131.6	57.2	113.7	80.3	33.40	3.405		
4,800.0	4,782.8	4,802.3	4,785.4	17.4	17.2	-160.68	143.9	50.9	124.4	90.3	34.16	3.642		
4,900.0	4,881.8	4,903.4	4,883.4	17.8	17.6	-156.81	156.1	44.6	135.8	100.9	34.93	3.888		
5,000.0	4,980.9	5,004.4	4,981.4	18.2	18.0	-153.56	168.4	38.3	147.8	112.1	35.71	4.138		

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #022H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.0	5,079.9	5,105.4	5,079.4	18.6	18.4	-150.79	180.6	31.9	160.1	123.6	36.48	4.388	
5,200.0	5,178.9	5,206.5	5,177.4	19.0	18.7	-148.42	192.8	25.6	172.7	135.5	37.25	4.637	
5,300.0	5,277.9	5,307.5	5,275.4	19.4	19.1	-146.38	205.1	19.3	185.6	147.6	38.03	4.881	
5,400.0	5,377.0	5,391.5	5,373.4	19.8	19.5	-144.60	217.3	13.0	198.7	160.0	38.74	5.130	
5,500.0	5,476.0	5,509.6	5,471.4	20.2	19.9	-143.04	229.5	6.6	212.0	172.4	39.58	5.355	
5,600.0	5,575.0	5,589.4	5,569.4	20.6	20.3	-141.67	241.8	0.3	225.4	185.1	40.28	5.596	
5,700.0	5,674.0	5,688.3	5,667.4	21.0	20.6	-140.45	254.0	-6.0	238.9	197.8	41.05	5.819	
5,726.0	5,699.8	5,714.0	5,692.8	21.1	20.8	-140.15	257.2	-7.6	242.4	201.2	41.25	5.877	
5,800.0	5,773.2	5,787.3	5,765.4	21.4	21.0	-139.35	266.3	-12.3	252.0	210.1	41.82	6.024	
5,900.0	5,872.6	5,886.5	5,863.6	21.7	21.4	-138.01	278.5	-18.6	263.2	220.7	42.59	6.181	
6,000.0	5,972.3	5,985.7	5,961.8	22.1	21.8	-136.41	290.8	-25.0	272.8	229.4	43.36	6.292	
6,100.0	6,072.1	6,084.9	6,060.1	22.5	22.2	-134.54	303.1	-31.3	280.8	236.6	44.12	6.364	
6,200.0	6,172.1	6,184.1	6,158.3	22.8	22.6	-132.38	315.3	-37.7	287.3	242.4	44.87	6.402	
6,259.3	6,231.4	6,244.0	6,217.7	23.1	22.9	-95.94	322.5	-41.4	290.4	245.1	45.32	6.408	
6,300.0	6,272.1	6,285.6	6,258.9	23.2	23.0	-95.01	327.1	-43.7	292.3	246.7	45.64	6.405	
6,400.0	6,372.1	6,388.2	6,361.0	23.5	23.4	-93.10	336.6	-48.6	296.4	250.0	46.40	6.388	
6,500.0	6,472.1	6,491.3	6,463.8	23.9	23.8	-91.70	343.7	-52.3	299.7	252.5	47.15	6.356	
6,600.0	6,572.1	6,594.8	6,567.1	24.2	24.2	-90.81	348.3	-54.7	301.9	254.0	47.89	6.304	
6,700.0	6,672.1	6,698.4	6,670.7	24.6	24.6	-90.40	350.4	-55.8	303.0	254.3	48.62	6.232	
6,800.0	6,772.1	6,800.2	6,772.1	24.9	24.9	-90.37	350.6	-55.9	303.0	253.7	49.32	6.145	
6,900.0	6,872.1	6,900.2	6,872.1	25.2	25.2	-90.37	350.6	-55.9	303.0	253.0	50.01	6.060	
7,000.0	6,972.1	7,000.2	6,972.1	25.6	25.6	-90.37	350.6	-55.9	303.0	252.3	50.70	5.977	
7,100.0	7,072.1	7,100.2	7,072.1	25.9	25.9	-90.37	350.6	-55.9	303.0	251.6	51.40	5.896	
7,200.0	7,172.1	7,199.8	7,172.1	26.3	26.3	-90.37	350.6	-55.9	303.0	250.9	52.09	5.818	
7,300.0	7,272.1	7,304.3	7,276.1	26.6	26.6	-91.97	342.2	-54.9	302.3	249.5	52.75	5.731	
7,394.2	7,366.3	7,397.6	7,366.3	27.0	26.8	-96.40	319.0	-52.3	301.4	248.1	53.28	5.656	
7,400.0	7,372.1	7,403.0	7,371.4	27.0	26.8	-96.74	317.2	-52.1	301.4	248.1	53.31	5.653	
7,500.0	7,472.1	7,490.9	7,451.6	27.3	27.0	-103.53	281.5	-48.1	304.4	250.8	53.63	5.676	
7,600.0	7,572.1	7,566.3	7,515.3	27.7	27.1	-110.91	241.5	-43.6	316.4	263.2	53.23	5.945	
7,700.0	7,672.1	7,629.7	7,564.3	28.0	27.2	-117.78	201.7	-39.2	341.1	289.5	51.65	6.604	
7,800.0	7,772.1	7,682.4	7,601.6	28.4	27.2	-123.66	164.6	-35.0	379.5	330.5	49.00	7.745	
7,900.0	7,872.1	7,726.3	7,629.9	28.7	27.3	-128.47	131.3	-31.3	430.3	384.5	45.78	9.400	
8,000.0	7,972.1	7,763.0	7,651.5	29.1	27.3	-132.34	101.9	-28.0	491.3	448.8	42.49	11.562	
8,100.0	8,072.1	7,800.0	7,671.3	29.4	27.4	-136.05	70.8	-24.5	560.2	520.4	39.75	14.093	
8,200.0	8,172.1	7,820.1	7,681.2	29.7	27.4	-137.96	53.4	-22.5	634.9	598.1	36.78	17.261	
8,300.0	8,272.1	7,850.0	7,694.8	30.1	27.4	-140.68	27.0	-19.6	714.4	679.6	34.82	20.518	
8,400.0	8,372.1	7,861.9	7,699.9	30.4	27.4	-141.71	16.2	-18.4	797.2	764.6	32.58	24.470	
8,500.0	8,472.1	7,878.8	7,706.6	30.8	27.5	-143.13	0.9	-16.7	882.7	851.8	30.97	28.506	
8,600.0	8,572.1	7,900.0	7,714.4	31.1	27.5	-144.83	-18.7	-14.5	970.5	940.6	29.84	32.528	
8,700.0	8,672.1	7,900.0	7,714.4	31.5	27.5	-144.83	-18.7	-14.5	1,059.9	1,031.6	28.30	37.450	
8,800.0	8,772.1	7,918.2	7,720.5	31.8	27.5	-146.23	-35.8	-12.5	1,150.6	1,123.0	27.57	41.727	
8,900.0	8,872.1	7,928.6	7,723.8	32.2	27.6	-146.99	-45.5	-11.4	1,242.5	1,215.7	26.81	46.351	
9,000.0	8,972.1	7,950.0	7,729.9	32.5	27.6	-148.52	-66.0	-9.2	1,335.6	1,309.1	26.47	50.458	
9,100.0	9,072.1	7,950.0	7,729.9	32.9	27.6	-148.52	-66.0	-9.2	1,429.0	1,403.3	25.74	55.516	
9,200.0	9,172.1	7,950.0	7,729.9	33.2	27.6	-148.52	-66.0	-9.2	1,523.4	1,498.2	25.16	60.551	
9,300.0	9,272.1	7,950.0	7,729.9	33.6	27.6	-148.52	-66.0	-9.2	1,618.3	1,593.6	24.70	65.531	
9,400.0	9,372.1	7,950.0	7,729.9	33.9	27.6	-148.52	-66.0	-9.2	1,713.9	1,689.6	24.33	70.431	
9,500.0	9,472.1	7,973.0	7,735.7	34.3	27.6	-150.06	-88.1	-6.7	1,809.3	1,784.9	24.44	74.032	
9,600.0	9,572.1	7,978.3	7,736.9	34.6	27.6	-150.40	-93.3	-6.1	1,905.5	1,881.2	24.29	78.436	
9,700.0	9,672.1	8,000.0	7,741.2	35.0	27.7	-151.75	-114.3	-3.7	2,002.3	1,977.8	24.45	81.907	
9,800.0	9,772.1	8,000.0	7,741.2	35.3	27.7	-151.75	-114.3	-3.7	2,098.9	2,074.6	24.31	86.348	
9,900.0	9,872.1	8,000.0	7,741.2	35.7	27.7	-151.75	-114.3	-3.7	2,195.8	2,171.5	24.22	90.666	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #022H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,000.0	9,972.1	8,000.0	7,741.2	36.0	27.7	-151.75	-114.3	-3.7	2,292.9	2,268.8	24.17	94.857	
10,100.0	10,072.1	8,000.0	7,741.2	36.4	27.7	-151.75	-114.3	-3.7	2,390.3	2,366.2	24.16	98.919	
10,200.0	10,172.1	8,000.0	7,741.2	36.7	27.7	-151.75	-114.3	-3.7	2,487.9	2,463.8	24.19	102.853	
10,300.0	10,272.1	8,000.0	7,741.2	37.1	27.7	-151.75	-114.3	-3.7	2,585.7	2,561.5	24.24	106.659	
10,354.9	10,327.0	8,000.0	7,741.2	37.3	27.7	-151.75	-114.3	-3.7	2,639.5	2,615.2	24.28	108.696	
10,400.0	10,372.0	8,000.0	7,741.2	37.4	27.7	26.49	-114.3	-3.7	2,683.4	2,659.1	24.31	110.392	
10,450.0	10,421.6	8,000.0	7,741.2	37.6	27.7	20.15	-114.3	-3.7	2,731.1	2,706.8	24.31	112.341	
10,500.0	10,470.5	8,000.0	7,741.2	37.7	27.7	16.23	-114.3	-3.7	2,777.5	2,753.2	24.29	114.329	
10,550.0	10,518.3	8,000.0	7,741.2	37.9	27.7	13.60	-114.3	-3.7	2,822.4	2,798.2	24.26	116.333	
10,600.0	10,564.7	8,023.5	7,745.1	38.0	27.7	11.61	-137.3	-1.2	2,865.0	2,840.5	24.42	117.307	
10,650.0	10,609.2	8,028.2	7,745.7	38.1	27.8	10.25	-142.0	-0.6	2,905.8	2,881.4	24.40	119.092	
10,700.0	10,651.6	8,050.0	7,748.3	38.2	27.8	9.17	-163.5	1.8	2,944.5	2,920.0	24.51	120.153	
10,750.0	10,691.5	8,050.0	7,748.3	38.3	27.8	8.39	-163.5	1.8	2,980.2	2,955.8	24.43	122.015	
10,800.0	10,728.6	8,050.0	7,748.3	38.3	27.8	7.77	-163.5	1.8	3,013.2	2,988.9	24.35	123.750	
10,850.0	10,762.7	8,050.0	7,748.3	38.4	27.8	7.28	-163.5	1.8	3,043.4	3,019.2	24.29	125.321	
10,900.0	10,793.5	8,050.0	7,748.3	38.4	27.8	6.88	-163.5	1.8	3,070.6	3,046.4	24.24	126.689	
10,950.0	10,820.7	8,050.0	7,748.3	38.5	27.8	6.56	-163.5	1.8	3,094.7	3,070.5	24.21	127.815	
11,000.0	10,844.2	8,072.2	7,750.0	38.5	27.9	6.30	-185.5	4.2	3,115.1	3,090.8	24.32	128.065	
11,050.0	10,863.7	8,079.5	7,750.4	38.6	27.9	6.10	-192.7	5.1	3,132.2	3,107.9	24.38	128.495	
11,100.0	10,879.1	8,100.0	7,750.9	38.7	27.9	5.95	-213.1	7.4	3,146.0	3,121.5	24.51	128.371	
11,150.0	10,890.4	8,100.0	7,750.9	38.8	27.9	5.85	-213.1	7.4	3,155.9	3,131.4	24.58	128.380	
11,200.0	10,897.3	8,100.0	7,750.9	38.9	27.9	5.78	-213.1	7.4	3,162.3	3,137.6	24.70	128.028	
11,254.9	10,900.0	8,134.1	7,751.0	39.0	28.1	5.77	-247.0	11.0	3,165.1	3,140.1	24.96	126.798	
11,300.0	10,900.0	8,174.6	7,751.0	39.2	28.2	5.80	-287.4	14.8	3,165.2	3,140.0	25.22	125.498	
11,400.0	10,900.0	8,264.5	7,751.0	39.5	28.5	5.87	-377.0	21.3	3,165.6	3,139.8	25.86	122.435	
11,500.0	10,900.0	8,354.2	7,751.0	39.9	29.0	5.93	-466.7	24.9	3,165.9	3,139.4	26.56	119.202	
11,600.0	10,900.0	8,448.5	7,751.0	40.3	29.5	5.98	-560.9	26.1	3,166.2	3,138.9	27.34	115.798	
11,638.0	10,900.0	8,486.5	7,751.0	40.5	29.7	5.98	-598.9	26.4	3,166.2	3,138.6	27.66	114.469	
11,700.0	10,900.0	8,548.5	7,751.0	40.8	30.1	5.98	-660.9	26.9	3,166.2	3,138.0	28.20	112.270	
11,800.0	10,900.0	8,648.5	7,751.0	41.3	30.8	5.98	-760.9	27.6	3,166.2	3,137.1	29.12	108.727	
11,900.0	10,900.0	8,748.5	7,751.0	41.9	31.6	5.98	-860.9	28.4	3,166.2	3,136.1	30.10	105.208	
12,000.0	10,900.0	8,848.5	7,751.0	42.5	32.4	5.98	-960.9	29.2	3,166.2	3,135.1	31.12	101.748	
12,100.0	10,900.0	8,948.5	7,751.0	43.2	33.3	5.98	-1,060.9	29.9	3,166.2	3,134.1	32.19	98.371	
12,200.0	10,900.0	9,048.5	7,751.0	44.0	34.2	5.98	-1,160.9	30.7	3,166.2	3,132.9	33.30	95.096	
12,300.0	10,900.0	9,148.5	7,751.0	44.8	35.2	5.98	-1,260.9	31.5	3,166.2	3,131.8	34.44	91.934	
12,400.0	10,900.0	9,248.5	7,751.0	45.6	36.3	5.98	-1,360.9	32.2	3,166.2	3,130.6	35.62	88.894	
12,500.0	10,900.0	9,348.5	7,751.0	46.5	37.4	5.98	-1,460.9	33.0	3,166.2	3,129.4	36.83	85.978	
12,600.0	10,900.0	9,448.5	7,751.0	47.4	38.5	5.98	-1,560.9	33.8	3,166.2	3,128.2	38.06	83.188	
12,700.0	10,900.0	9,548.5	7,751.0	48.4	39.7	5.98	-1,660.9	34.5	3,166.2	3,126.9	39.32	80.523	
12,800.0	10,900.0	9,648.5	7,751.0	49.4	40.9	5.98	-1,760.9	35.3	3,166.2	3,125.6	40.60	77.980	
12,900.0	10,900.0	9,748.5	7,751.0	50.4	42.1	5.98	-1,860.9	36.1	3,166.2	3,124.3	41.91	75.555	
13,000.0	10,900.0	9,848.5	7,751.0	51.5	43.4	5.98	-1,960.9	36.8	3,166.2	3,123.0	43.23	73.245	
13,100.0	10,900.0	9,948.5	7,751.0	52.6	44.7	5.98	-2,060.9	37.6	3,166.2	3,121.7	44.57	71.045	
13,200.0	10,900.0	10,048.5	7,751.0	53.7	46.0	5.98	-2,160.9	38.4	3,166.2	3,120.3	45.92	68.949	
13,300.0	10,900.0	10,148.5	7,751.0	54.9	47.3	5.98	-2,260.9	39.1	3,166.2	3,119.0	47.29	66.953	
13,400.0	10,900.0	10,248.5	7,751.0	56.0	48.6	5.98	-2,360.9	39.9	3,166.2	3,117.6	48.67	65.051	
13,500.0	10,900.0	10,348.5	7,751.0	57.2	50.0	5.98	-2,460.9	40.7	3,166.2	3,116.2	50.07	63.239	
13,600.0	10,900.0	10,448.5	7,751.0	58.5	51.4	5.98	-2,560.9	41.4	3,166.2	3,114.8	51.47	61.511	
13,700.0	10,900.0	10,548.5	7,751.0	59.7	52.8	5.98	-2,660.9	42.2	3,166.2	3,113.4	52.89	59.864	
13,800.0	10,900.0	10,648.5	7,751.0	61.0	54.2	5.98	-2,760.9	43.0	3,166.2	3,111.9	54.32	58.292	
13,900.0	10,900.0	10,748.5	7,751.0	62.2	55.6	5.98	-2,860.9	43.7	3,166.2	3,110.5	55.75	56.791	
14,000.0	10,900.0	10,848.5	7,751.0	63.5	57.1	5.98	-2,960.9	44.5	3,166.2	3,109.0	57.20	55.358	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #022H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,100.0	10,900.0	10,948.5	7,751.0	64.9	58.5	5.98	-3,060.9	45.3	3,166.2	3,107.6	58.65	53.988	
14,200.0	10,900.0	11,048.5	7,751.0	66.2	60.0	5.98	-3,160.9	46.0	3,166.2	3,106.1	60.11	52.678	
14,300.0	10,900.0	11,148.5	7,751.0	67.5	61.4	5.98	-3,260.9	46.8	3,166.2	3,104.7	61.57	51.425	
14,400.0	10,900.0	11,248.5	7,751.0	68.9	62.9	5.98	-3,360.9	47.6	3,166.2	3,103.2	63.04	50.224	
14,500.0	10,900.0	11,348.5	7,751.0	70.3	64.4	5.98	-3,460.9	48.3	3,166.2	3,101.7	64.52	49.074	
14,600.0	10,900.0	11,448.5	7,751.0	71.6	65.9	5.98	-3,560.9	49.1	3,166.2	3,100.2	66.00	47.972	
14,700.0	10,900.0	11,548.5	7,751.0	73.0	67.4	5.98	-3,660.9	49.9	3,166.2	3,098.8	67.49	46.914	
14,800.0	10,900.0	11,648.5	7,751.0	74.4	68.9	5.98	-3,760.8	50.6	3,166.2	3,097.3	68.98	45.899	
14,900.0	10,900.0	11,748.5	7,751.0	75.8	70.4	5.98	-3,860.8	51.4	3,166.2	3,095.8	70.48	44.924	
15,000.0	10,900.0	11,848.5	7,751.0	77.3	71.9	5.98	-3,960.8	52.2	3,166.2	3,094.3	71.98	43.987	
15,100.0	10,900.0	11,948.5	7,751.0	78.7	73.5	5.98	-4,060.8	53.0	3,166.2	3,092.8	73.49	43.086	
15,200.0	10,900.0	12,048.5	7,751.0	80.1	75.0	5.98	-4,160.8	53.7	3,166.2	3,091.2	75.00	42.219	
15,300.0	10,900.0	12,148.5	7,751.0	81.6	76.5	5.98	-4,260.8	54.5	3,166.2	3,089.7	76.51	41.384	
15,400.0	10,900.0	12,248.5	7,751.0	83.0	78.1	5.98	-4,360.8	55.3	3,166.2	3,088.2	78.02	40.580	
15,500.0	10,900.0	12,348.5	7,751.0	84.5	79.6	5.98	-4,460.8	56.0	3,166.2	3,086.7	79.54	39.805	
15,600.0	10,900.0	12,448.5	7,751.0	86.0	81.2	5.98	-4,560.8	56.8	3,166.2	3,085.2	81.07	39.058	
15,700.0	10,900.0	12,548.5	7,751.0	87.5	82.7	5.98	-4,660.8	57.6	3,166.2	3,083.7	82.59	38.336	
15,800.0	10,900.0	12,648.5	7,751.0	88.9	84.3	5.98	-4,760.8	58.3	3,166.2	3,082.1	84.12	37.640	
15,900.0	10,900.0	12,748.5	7,751.0	90.4	85.8	5.98	-4,860.8	59.1	3,166.2	3,080.6	85.65	36.968	
16,000.0	10,900.0	12,848.5	7,751.0	91.9	87.4	5.98	-4,960.8	59.9	3,166.2	3,079.1	87.18	36.318	
16,100.0	10,900.0	12,948.5	7,751.0	93.4	89.0	5.98	-5,060.8	60.6	3,166.2	3,077.5	88.72	35.690	
16,200.0	10,900.0	13,048.5	7,751.0	94.9	90.5	5.98	-5,160.8	61.4	3,166.2	3,076.0	90.25	35.082	
16,300.0	10,900.0	13,148.5	7,751.0	96.4	92.1	5.98	-5,260.8	62.2	3,166.2	3,074.5	91.79	34.494	
16,400.0	10,900.0	13,248.5	7,751.0	98.0	93.7	5.98	-5,360.8	62.9	3,166.2	3,072.9	93.33	33.924	
16,500.0	10,900.0	13,348.5	7,751.0	99.5	95.3	5.98	-5,460.8	63.7	3,166.2	3,071.4	94.88	33.372	
16,600.0	10,900.0	13,448.5	7,751.0	101.0	96.8	5.98	-5,560.8	64.5	3,166.2	3,069.8	96.42	32.838	
16,700.0	10,900.0	13,548.5	7,751.0	102.5	98.4	5.98	-5,660.8	65.2	3,166.2	3,068.3	97.97	32.319	
16,800.0	10,900.0	13,648.5	7,751.0	104.1	100.0	5.98	-5,760.8	66.0	3,166.2	3,066.7	99.52	31.817	
16,900.0	10,900.0	13,748.5	7,751.0	105.6	101.6	5.98	-5,860.8	66.8	3,166.2	3,065.2	101.06	31.329	
17,000.0	10,900.0	13,848.5	7,751.0	107.1	103.2	5.98	-5,960.8	67.5	3,166.2	3,063.6	102.62	30.855	
17,100.0	10,900.0	13,948.5	7,751.0	108.7	104.8	5.98	-6,060.8	68.3	3,166.2	3,062.1	104.17	30.396	
17,200.0	10,900.0	14,048.5	7,751.0	110.2	106.4	5.98	-6,160.8	69.1	3,166.2	3,060.5	105.72	29.949	
17,300.0	10,900.0	14,148.5	7,751.0	111.8	107.9	5.98	-6,260.8	69.8	3,166.2	3,059.0	107.28	29.515	
17,400.0	10,900.0	14,248.5	7,751.0	113.3	109.5	5.98	-6,360.8	70.6	3,166.2	3,057.4	108.83	29.093	
17,500.0	10,900.0	14,348.5	7,751.0	114.9	111.1	5.98	-6,460.8	71.4	3,166.2	3,055.9	110.39	28.682	
17,600.0	10,900.0	14,448.5	7,751.0	116.4	112.7	5.98	-6,560.8	72.1	3,166.2	3,054.3	111.95	28.283	
17,700.0	10,900.0	14,548.5	7,751.0	118.0	114.3	5.98	-6,660.8	72.9	3,166.2	3,052.7	113.51	27.894	
17,800.0	10,900.0	14,648.5	7,751.0	119.5	115.9	5.98	-6,760.8	73.7	3,166.2	3,051.2	115.07	27.516	
17,900.0	10,900.0	14,748.5	7,751.0	121.1	117.5	5.98	-6,860.8	74.4	3,166.2	3,049.6	116.63	27.147	
18,000.0	10,900.0	14,848.5	7,751.0	122.7	119.1	5.98	-6,960.8	75.2	3,166.2	3,048.0	118.19	26.789	
18,100.0	10,900.0	14,948.5	7,751.0	124.2	120.7	5.98	-7,060.7	76.0	3,166.2	3,046.5	119.76	26.439	
18,200.0	10,900.0	15,048.5	7,751.0	125.8	122.4	5.98	-7,160.7	76.7	3,166.2	3,044.9	121.32	26.098	
18,300.0	10,900.0	15,148.5	7,751.0	127.4	124.0	5.98	-7,260.7	77.5	3,166.2	3,043.4	122.89	25.765	
18,400.0	10,900.0	15,248.5	7,751.0	129.0	125.6	5.98	-7,360.7	78.3	3,166.2	3,041.8	124.45	25.441	
18,500.0	10,900.0	15,348.5	7,751.0	130.5	127.2	5.98	-7,460.7	79.0	3,166.2	3,040.2	126.02	25.125	
18,600.0	10,900.0	15,448.5	7,751.0	132.1	128.8	5.98	-7,560.7	79.8	3,166.2	3,038.7	127.59	24.816	
18,700.0	10,900.0	15,548.5	7,751.0	133.7	130.4	5.98	-7,660.7	80.6	3,166.2	3,037.1	129.16	24.515	
18,800.0	10,900.0	15,648.5	7,751.0	135.3	132.0	5.98	-7,760.7	81.3	3,166.2	3,035.5	130.73	24.220	
18,900.0	10,900.0	15,748.5	7,751.0	136.9	133.6	5.98	-7,860.7	82.1	3,166.2	3,033.9	132.30	23.933	
19,000.0	10,900.0	15,848.5	7,751.0	138.4	135.2	5.98	-7,960.7	82.9	3,166.2	3,032.4	133.87	23.652	
19,100.0	10,900.0	15,948.5	7,751.0	140.0	136.9	5.98	-8,060.7	83.6	3,166.2	3,030.8	135.44	23.378	
19,200.0	10,900.0	16,048.5	7,751.0	141.6	138.5	5.98	-8,160.7	84.4	3,166.2	3,029.2	137.01	23.110	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #022H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.0	10,900.0	16,148.5	7,751.0	143.2	140.1	5.98	-8,260.7	85.2	3,166.2	3,027.7	138.58	22.847	
19,400.0	10,900.0	16,248.5	7,751.0	144.8	141.7	5.98	-8,360.7	85.9	3,166.2	3,026.1	140.15	22.591	
19,500.0	10,900.0	16,348.5	7,751.0	146.4	143.3	5.98	-8,460.7	86.7	3,166.2	3,024.5	141.73	22.340	
19,600.0	10,900.0	16,448.5	7,751.0	148.0	144.9	5.98	-8,560.7	87.5	3,166.2	3,022.9	143.30	22.095	
19,700.0	10,900.0	16,548.5	7,751.0	149.6	146.6	5.98	-8,660.7	88.2	3,166.2	3,021.4	144.88	21.855	
19,800.0	10,900.0	16,648.5	7,751.0	151.2	148.2	5.98	-8,760.7	89.0	3,166.2	3,019.8	146.45	21.620	
19,900.0	10,900.0	16,748.5	7,751.0	152.8	149.8	5.98	-8,860.7	89.8	3,166.2	3,018.2	148.03	21.390	
20,000.0	10,900.0	16,848.5	7,751.0	154.4	151.4	5.98	-8,960.7	90.5	3,166.2	3,016.6	149.60	21.164	
20,100.0	10,900.0	16,948.5	7,751.0	156.0	153.0	5.98	-9,060.7	91.3	3,166.2	3,015.1	151.18	20.944	
20,200.0	10,900.0	17,048.5	7,751.0	157.6	154.7	5.98	-9,160.7	92.1	3,166.2	3,013.5	152.76	20.727	
20,300.0	10,900.0	17,148.5	7,751.0	159.2	156.3	5.98	-9,260.7	92.8	3,166.2	3,011.9	154.33	20.515	
20,400.0	10,900.0	17,248.5	7,751.0	160.8	157.9	5.98	-9,360.7	93.6	3,166.2	3,010.3	155.91	20.308	
20,500.0	10,900.0	17,348.5	7,751.0	162.4	159.5	5.98	-9,460.7	94.4	3,166.2	3,008.8	157.49	20.104	
20,600.0	10,900.0	17,448.5	7,751.0	164.0	161.2	5.98	-9,560.7	95.1	3,166.2	3,007.2	159.07	19.905	
20,700.0	10,900.0	17,548.5	7,751.0	165.6	162.8	5.98	-9,660.7	95.9	3,166.2	3,005.6	160.65	19.709	
20,800.0	10,900.0	17,648.5	7,751.0	167.2	164.4	5.98	-9,760.7	96.7	3,166.2	3,004.0	162.23	19.517	
20,900.0	10,900.0	17,748.5	7,751.0	168.8	166.0	5.98	-9,860.7	97.4	3,166.2	3,002.4	163.81	19.329	
21,000.0	10,900.0	17,848.5	7,751.0	170.4	167.7	5.98	-9,960.7	98.2	3,166.2	3,000.9	165.39	19.144	
21,100.0	10,900.0	17,948.5	7,751.0	172.0	169.3	5.98	-10,060.7	99.0	3,166.2	2,999.3	166.97	18.963	
21,201.2	10,900.0	18,049.7	7,751.0	173.7	170.9	5.98	-10,161.9	99.8	3,166.2	2,997.7	168.57	18.783	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #102H - Wellbore #1 - BLM Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	110.18	-29.5	80.2	85.5					
100.0	100.0	100.0	100.0	0.1	0.1	110.18	-29.5	80.2	85.5	85.2	0.26	333.464		
200.0	200.0	200.0	200.0	0.5	0.5	110.18	-29.5	80.2	85.5	84.5	0.97	87.819		
300.0	300.0	300.0	300.0	0.8	0.8	110.18	-29.5	80.2	85.5	83.8	1.69	50.568		
400.0	400.0	400.0	400.0	1.2	1.2	110.18	-29.5	80.2	85.5	83.1	2.41	35.507		
500.0	500.0	500.0	500.0	1.6	1.6	110.18	-29.5	80.2	85.5	82.3	3.12	27.358		
600.0	600.0	600.0	600.0	1.9	1.9	110.18	-29.5	80.2	85.5	81.6	3.84	22.252		
700.0	700.0	700.0	700.0	2.3	2.3	110.18	-29.5	80.2	85.5	80.9	4.56	18.752		
800.0	800.0	800.0	800.0	2.6	2.6	110.18	-29.5	80.2	85.5	80.2	5.27	16.203		
900.0	900.0	900.0	900.0	3.0	3.0	110.18	-29.5	80.2	85.5	79.5	5.99	14.264		
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	110.18	-29.5	80.2	85.5	78.8	6.71	12.740		
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	110.18	-29.5	80.2	85.5	78.0	7.43	11.510		
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	110.18	-29.5	80.2	85.5	77.3	8.14	10.496		
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	110.18	-29.5	80.2	85.5	76.6	8.86	9.647		
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	110.18	-29.5	80.2	85.5	75.9	9.58	8.925		
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	110.18	-29.5	80.2	85.5	75.2	10.29	8.303		
1,600.0	1,600.0	1,600.0	1,600.0	5.5	5.5	110.18	-29.5	80.2	85.5	74.5	11.01	7.763		
1,700.0	1,700.0	1,700.0	1,700.0	5.9	5.9	110.18	-29.5	80.2	85.5	73.7	11.73	7.288		
1,800.0	1,800.0	1,800.0	1,800.0	6.2	6.2	110.18	-29.5	80.2	85.5	73.0	12.44	6.868		
1,900.0	1,900.0	1,900.0	1,900.0	6.6	6.6	110.18	-29.5	80.2	85.5	72.3	13.16	6.494		
2,000.0	2,000.0	2,000.0	2,000.0	6.9	6.9	110.18	-29.5	80.2	85.5	71.6	13.88	6.159		
2,100.0	2,100.0	2,100.0	2,100.0	7.3	7.3	110.18	-29.5	80.2	85.5	70.9	14.60	5.856		
2,200.0	2,200.0	2,200.0	2,200.0	7.7	7.7	110.18	-29.5	80.2	85.5	70.2	15.31	5.582		
2,300.0	2,300.0	2,300.0	2,300.0	8.0	8.0	110.18	-29.5	80.2	85.5	69.4	16.03	5.332		
2,400.0	2,400.0	2,400.0	2,400.0	8.4	8.4	110.18	-29.5	80.2	85.5	68.7	16.75	5.104		
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	110.18	-29.5	80.2	85.5	68.0	17.46	4.894		
2,600.0	2,600.0	2,600.0	2,600.0	9.1	9.1	75.72	-29.5	80.2	85.2	67.1	18.18	4.690		
2,700.0	2,700.0	2,700.0	2,700.0	9.4	9.4	77.44	-29.5	80.2	84.6	65.8	18.89	4.480		
2,800.0	2,799.9	2,800.1	2,799.9	9.8	9.8	80.36	-29.5	80.2	83.8	64.2	19.61	4.274		
2,900.0	2,899.7	2,900.3	2,899.7	10.2	10.2	84.52	-29.5	80.2	83.0	62.7	20.32	4.084		
3,000.0	2,999.4	2,999.4	2,999.4	10.5	10.5	89.93	-29.5	80.2	82.6	61.6	21.03	3.928		
3,100.0	3,098.9	3,100.3	3,100.3	10.9	10.9	96.56	-28.8	79.6	82.3	60.5	21.75	3.784		
3,200.0	3,198.3	3,201.2	3,201.1	11.2	11.2	104.39	-26.9	77.8	81.7	59.3	22.46	3.638		
3,265.5	3,263.3	3,267.1	3,267.0	11.5	11.5	110.23	-25.0	75.9	81.5	58.6	22.92	3.557 CC		
3,300.0	3,297.4	3,301.7	3,301.6	11.6	11.6	113.52	-23.7	74.7	81.6	58.4	23.17	3.523 ES		
3,400.0	3,396.4	3,402.1	3,401.8	12.0	12.0	123.38	-19.3	70.5	82.4	58.5	23.87	3.451		
3,500.0	3,495.5	3,502.3	3,501.7	12.3	12.3	133.39	-13.6	65.0	84.0	59.4	24.58	3.418 SF		
3,600.0	3,594.5	3,602.4	3,601.3	12.7	12.7	143.48	-6.6	58.4	86.8	61.5	25.29	3.430		
3,700.0	3,693.5	3,702.1	3,700.4	13.1	13.0	153.52	1.6	50.5	90.9	64.9	26.01	3.496		
3,800.0	3,792.5	3,801.5	3,798.9	13.5	13.4	163.31	11.0	41.6	96.8	70.0	26.73	3.620		
3,900.0	3,891.6	3,900.0	3,896.4	13.9	13.8	172.13	20.9	32.1	104.8	77.3	27.46	3.817		
4,000.0	3,990.6	4,001.6	3,993.9	14.2	14.1	179.57	30.8	22.6	115.0	86.8	28.20	4.078		
4,100.0	4,089.6	4,103.2	4,091.4	14.6	14.5	-174.26	40.7	13.2	126.8	97.9	28.94	4.383		
4,200.0	4,188.6	4,204.7	4,188.8	15.0	14.9	-169.18	50.6	3.7	139.9	110.2	29.67	4.714		
4,300.0	4,287.7	4,306.3	4,286.3	15.4	15.3	-164.98	60.5	-5.7	153.8	123.4	30.41	5.058		
4,400.0	4,386.7	4,407.8	4,383.8	15.8	15.7	-161.49	70.4	-15.2	168.4	137.3	31.15	5.407		
4,500.0	4,485.7	4,509.4	4,481.3	16.2	16.0	-158.56	80.3	-24.7	183.6	151.7	31.90	5.756		
4,600.0	4,584.8	4,589.1	4,578.8	16.6	16.3	-156.07	90.3	-34.1	199.1	166.6	32.56	6.116		
4,700.0	4,683.8	4,687.5	4,676.3	17.0	16.7	-153.95	100.2	-43.6	215.0	181.7	33.30	6.457		
4,800.0	4,782.8	4,785.9	4,773.7	17.4	17.1	-152.12	110.1	-53.1	231.1	197.1	34.04	6.790		
4,900.0	4,881.8	4,884.4	4,871.2	17.8	17.5	-150.53	120.0	-62.5	247.4	212.6	34.78	7.114		
5,000.0	4,980.9	4,982.8	4,968.7	18.2	17.9	-149.14	129.9	-72.0	263.9	228.4	35.52	7.429		

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #102H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.0	5,079.9	5,081.3	5,066.2	18.6	18.3	-147.91	139.8	-81.4	280.5	244.2	36.27	7.734	
5,200.0	5,178.9	5,179.7	5,163.7	19.0	18.6	-146.82	149.7	-90.9	297.2	260.2	37.02	8.029	
5,300.0	5,277.9	5,278.1	5,261.2	19.4	19.0	-145.84	159.6	-100.4	314.0	276.3	37.77	8.315	
5,400.0	5,377.0	5,376.6	5,358.6	19.8	19.4	-144.97	169.5	-109.8	330.9	292.4	38.52	8.591	
5,500.0	5,476.0	5,475.0	5,456.1	20.2	19.8	-144.17	179.4	-119.3	347.9	308.6	39.28	8.858	
5,600.0	5,575.0	5,573.5	5,553.6	20.6	20.2	-143.46	189.3	-128.8	364.9	324.9	40.03	9.116	
5,700.0	5,674.0	5,671.9	5,651.1	21.0	20.6	-142.80	199.2	-138.2	382.0	341.2	40.79	9.365	
5,726.0	5,699.8	5,697.5	5,676.4	21.1	20.7	-142.64	201.8	-140.7	386.4	345.5	40.98	9.429	
5,800.0	5,773.2	5,770.4	5,748.7	21.4	21.0	-142.25	209.2	-147.7	398.6	357.0	41.54	9.593	
5,900.0	5,872.6	5,869.2	5,846.4	21.7	21.4	-141.56	219.1	-157.2	413.2	370.9	42.30	9.769	
6,000.0	5,972.3	5,968.1	5,944.4	22.1	21.8	-140.69	229.0	-166.7	425.9	382.9	43.05	9.894	
6,100.0	6,072.1	6,067.1	6,042.5	22.5	22.2	-139.63	239.0	-176.2	436.8	393.0	43.79	9.974	
6,200.0	6,172.1	6,166.2	6,140.6	22.8	22.6	-138.40	249.0	-185.7	445.9	401.3	44.53	10.013	
6,259.3	6,231.4	6,224.9	6,198.7	23.1	22.8	-102.56	254.9	-191.4	450.5	405.5	44.96	10.018	
6,300.0	6,272.1	6,265.2	6,238.6	23.2	23.0	-101.95	259.0	-195.3	453.4	408.2	45.26	10.018	
6,400.0	6,372.1	6,364.2	6,336.7	23.5	23.4	-100.49	268.9	-204.8	461.0	415.0	45.99	10.024	
6,500.0	6,472.1	6,463.3	6,434.8	23.9	23.8	-99.07	278.9	-214.3	468.8	422.1	46.71	10.035	
6,600.0	6,572.1	6,562.3	6,532.8	24.2	24.2	-97.70	288.9	-223.8	476.9	429.4	47.44	10.052	
6,700.0	6,672.1	6,661.3	6,630.9	24.6	24.5	-96.38	298.8	-233.3	485.2	437.1	48.16	10.075	
6,800.0	6,772.1	6,760.4	6,728.9	24.9	24.9	-95.11	308.8	-242.8	493.8	445.0	48.88	10.102	
6,900.0	6,872.1	6,859.4	6,827.0	25.2	25.3	-93.87	318.8	-252.4	502.7	453.1	49.60	10.134	
7,000.0	6,972.1	6,966.1	6,932.8	25.6	25.8	-92.67	328.8	-261.9	511.2	460.7	50.41	10.140	
7,100.0	7,072.1	7,075.4	7,041.5	25.9	26.2	-91.74	336.9	-269.7	518.0	466.7	51.22	10.113	
7,200.0	7,172.1	7,185.2	7,151.0	26.3	26.6	-91.08	342.7	-275.2	522.9	470.9	52.01	10.055	
7,300.0	7,272.1	7,295.4	7,261.1	26.6	27.0	-90.68	346.3	-278.7	526.0	473.2	52.77	9.967	
7,400.0	7,372.1	7,405.8	7,371.5	27.0	27.4	-90.54	347.6	-279.9	527.1	473.6	53.51	9.850	
7,500.0	7,472.1	7,506.4	7,472.1	27.3	27.7	-90.54	347.6	-279.9	527.1	472.9	54.21	9.724	
7,600.0	7,572.1	7,606.4	7,572.1	27.7	28.1	-90.54	347.6	-279.9	527.1	472.2	54.90	9.601	
7,700.0	7,672.1	7,706.4	7,672.1	28.0	28.4	-90.54	347.6	-279.9	527.1	471.5	55.60	9.481	
7,800.0	7,772.1	7,802.2	7,767.4	28.4	28.7	-91.48	338.9	-280.1	527.5	471.2	56.24	9.380	
7,900.0	7,872.1	7,892.8	7,855.1	28.7	28.9	-93.94	316.2	-280.7	529.3	472.5	56.80	9.320	
8,000.0	7,972.1	7,974.6	7,930.2	29.1	29.1	-97.38	284.1	-281.5	534.7	477.5	57.19	9.350	
8,100.0	8,072.1	8,046.0	7,991.4	29.4	29.2	-101.21	247.6	-282.3	545.8	488.6	57.23	9.536	
8,200.0	8,172.1	8,107.0	8,039.9	29.7	29.3	-104.99	210.5	-283.2	564.8	508.0	56.75	9.952	
8,300.0	8,272.1	8,158.6	8,077.6	30.1	29.3	-108.45	175.3	-284.1	592.9	537.2	55.64	10.655	
8,400.0	8,372.1	8,200.0	8,105.4	30.4	29.3	-111.34	144.7	-284.9	630.3	576.4	53.91	11.693	
8,500.0	8,472.1	8,239.2	8,129.7	30.8	29.4	-114.13	114.0	-285.6	676.7	624.8	51.89	13.042	
8,600.0	8,572.1	8,270.6	8,147.6	31.1	29.4	-116.37	88.1	-286.2	731.1	681.5	49.60	14.741	
8,700.0	8,672.1	8,300.0	8,163.0	31.5	29.4	-118.45	63.2	-286.9	792.5	745.1	47.34	16.740	
8,800.0	8,772.1	8,320.8	8,173.2	31.8	29.4	-119.92	45.0	-287.3	859.6	814.6	45.02	19.094	
8,900.0	8,872.1	8,350.0	8,186.3	32.2	29.4	-121.94	18.9	-287.9	931.6	888.4	43.17	21.581	
9,000.0	8,972.1	8,350.0	8,186.3	32.5	29.4	-121.94	18.9	-287.9	1,007.5	966.7	40.79	24.700	
9,100.0	9,072.1	8,374.1	8,196.1	32.9	29.4	-123.58	-3.0	-288.5	1,086.6	1,047.3	39.30	27.648	
9,200.0	9,172.1	8,400.0	8,205.6	33.2	29.4	-125.30	-27.1	-289.1	1,168.6	1,130.6	38.07	30.695	
9,300.0	9,272.1	8,400.0	8,205.6	33.6	29.4	-125.30	-27.1	-289.1	1,252.6	1,216.1	36.45	34.362	
9,400.0	9,372.1	8,400.0	8,205.6	33.9	29.4	-125.30	-27.1	-289.1	1,338.8	1,303.7	35.06	38.187	
9,500.0	9,472.1	8,421.0	8,212.5	34.3	29.4	-126.66	-46.9	-289.5	1,426.2	1,391.9	34.28	41.604	
9,600.0	9,572.1	8,429.9	8,215.2	34.6	29.4	-127.23	-55.5	-289.8	1,515.2	1,481.8	33.41	45.354	
9,700.0	9,672.1	8,450.0	8,220.8	35.0	29.4	-128.49	-74.7	-290.2	1,605.4	1,572.6	32.87	48.842	
9,800.0	9,772.1	8,450.0	8,220.8	35.3	29.4	-128.49	-74.7	-290.2	1,696.4	1,664.3	32.09	52.865	
9,900.0	9,872.1	8,450.0	8,220.8	35.7	29.4	-128.49	-74.7	-290.2	1,788.3	1,756.8	31.43	56.902	
10,000.0	9,972.1	8,450.0	8,220.8	36.0	29.4	-128.49	-74.7	-290.2	1,881.0	1,850.1	30.87	60.930	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #102H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,100.0	10,072.1	8,450.0	8,220.8	36.4	29.4	-128.49	-74.7	-290.2	1,974.4	1,944.0	30.41	64.931	
10,200.0	10,172.1	8,469.5	8,225.6	36.7	29.4	-129.68	-93.7	-290.7	2,068.1	2,037.8	30.29	68.280	
10,300.0	10,272.1	8,474.5	8,226.8	37.1	29.4	-129.98	-98.5	-290.8	2,162.4	2,132.4	30.03	72.018	
10,354.9	10,327.0	8,477.0	8,227.3	37.3	29.4	-130.13	-101.0	-290.9	2,214.5	2,184.5	29.91	74.048	
10,400.0	10,372.0	8,479.4	8,227.8	37.4	29.4	47.81	-103.3	-290.9	2,256.9	2,227.1	29.81	75.717	
10,450.0	10,421.6	8,500.0	8,231.9	37.6	29.4	38.90	-123.5	-291.4	2,303.4	2,273.5	29.90	77.044	
10,500.0	10,470.5	8,500.0	8,231.9	37.7	29.4	32.96	-123.5	-291.4	2,348.2	2,318.5	29.72	79.013	
10,550.0	10,518.3	8,500.0	8,231.9	37.9	29.4	28.51	-123.5	-291.4	2,391.6	2,362.0	29.54	80.974	
10,600.0	10,564.7	8,500.0	8,231.9	38.0	29.4	25.12	-123.5	-291.4	2,433.2	2,403.9	29.35	82.906	
10,650.0	10,609.2	8,500.0	8,231.9	38.1	29.4	22.48	-123.5	-291.4	2,472.9	2,443.7	29.17	84.787	
10,700.0	10,651.6	8,500.0	8,231.9	38.2	29.4	20.41	-123.5	-291.4	2,510.4	2,481.4	28.99	86.592	
10,750.0	10,691.5	8,500.0	8,231.9	38.3	29.4	18.75	-123.5	-291.4	2,545.6	2,516.8	28.83	88.296	
10,800.0	10,728.6	8,522.6	8,235.4	38.3	29.4	17.39	-145.7	-292.0	2,577.8	2,548.9	28.88	89.263	
10,850.0	10,762.7	8,530.0	8,236.4	38.4	29.5	16.32	-153.1	-292.1	2,607.4	2,578.6	28.80	90.521	
10,900.0	10,793.5	8,550.0	8,238.6	38.4	29.5	15.47	-173.0	-292.6	2,634.3	2,605.4	28.84	91.342	
10,950.0	10,820.7	8,550.0	8,238.6	38.5	29.5	14.77	-173.0	-292.6	2,657.8	2,629.0	28.76	92.429	
11,000.0	10,844.2	8,550.0	8,238.6	38.5	29.5	14.21	-173.0	-292.6	2,678.3	2,649.6	28.71	93.282	
11,050.0	10,863.7	8,550.0	8,238.6	38.6	29.5	13.76	-173.0	-292.6	2,695.7	2,667.0	28.72	93.875	
11,100.0	10,879.1	8,570.8	8,240.1	38.7	29.6	13.47	-193.7	-293.1	2,709.4	2,680.6	28.86	93.872	
11,150.0	10,890.4	8,579.4	8,240.5	38.8	29.6	13.24	-202.4	-293.3	2,719.9	2,690.9	28.99	93.829	
11,200.0	10,897.3	8,602.3	8,241.0	38.9	29.7	13.15	-225.2	-293.9	2,727.2	2,698.0	29.20	93.389	
11,254.9	10,900.0	8,602.3	8,241.0	39.0	29.7	13.07	-225.2	-293.9	2,730.8	2,701.3	29.40	92.867	
11,300.0	10,900.0	8,626.4	8,241.0	39.2	29.8	13.17	-249.3	-294.4	2,732.2	2,702.6	29.67	92.091	
11,400.0	10,900.0	8,740.8	8,241.0	39.5	30.2	13.47	-363.7	-294.3	2,734.7	2,704.3	30.40	89.957	
11,500.0	10,900.0	8,840.5	8,241.0	39.9	30.6	13.63	-463.4	-293.5	2,736.2	2,705.1	31.13	87.888	
11,600.0	10,900.0	8,940.5	8,241.0	40.3	31.2	13.71	-563.4	-292.8	2,737.0	2,705.1	31.90	85.788	
11,638.0	10,900.0	8,978.4	8,241.0	40.5	31.4	13.71	-601.3	-292.5	2,737.0	2,704.8	32.20	84.991	
11,700.0	10,900.0	9,040.5	8,241.0	40.8	31.8	13.71	-663.4	-292.0	2,737.0	2,704.3	32.71	83.667	
11,800.0	10,900.0	9,140.5	8,241.0	41.3	32.4	13.71	-763.4	-291.2	2,737.0	2,703.4	33.59	81.490	
11,900.0	10,900.0	9,240.5	8,241.0	41.9	33.1	13.71	-863.4	-290.5	2,737.0	2,702.5	34.52	79.280	
12,000.0	10,900.0	9,340.5	8,241.0	42.5	33.9	13.71	-963.4	-289.7	2,737.0	2,701.5	35.52	77.064	
12,100.0	10,900.0	9,440.5	8,241.0	43.2	34.8	13.71	-1,063.4	-289.0	2,737.0	2,700.5	36.56	74.860	
12,200.0	10,900.0	9,540.5	8,241.0	44.0	35.7	13.71	-1,163.4	-288.2	2,737.0	2,699.4	37.65	72.687	
12,300.0	10,900.0	9,640.5	8,241.0	44.8	36.7	13.71	-1,263.4	-287.4	2,737.0	2,698.2	38.79	70.557	
12,400.0	10,900.0	9,740.5	8,241.0	45.6	37.7	13.71	-1,363.4	-286.7	2,737.0	2,697.1	39.97	68.479	
12,500.0	10,900.0	9,840.5	8,241.0	46.5	38.7	13.71	-1,463.4	-285.9	2,737.0	2,695.8	41.18	66.460	
12,600.0	10,900.0	9,940.5	8,241.0	47.4	39.8	13.71	-1,563.4	-285.1	2,737.0	2,694.6	42.43	64.506	
12,700.0	10,900.0	10,040.5	8,241.0	48.4	40.9	13.71	-1,663.3	-284.4	2,737.0	2,693.3	43.71	62.619	
12,800.0	10,900.0	10,140.5	8,241.0	49.4	42.1	13.71	-1,763.3	-283.6	2,737.0	2,692.0	45.02	60.802	
12,900.0	10,900.0	10,240.5	8,241.0	50.4	43.3	13.71	-1,863.3	-282.8	2,737.0	2,690.7	46.35	59.054	
13,000.0	10,900.0	10,340.5	8,241.0	51.5	44.5	13.71	-1,963.3	-282.1	2,737.0	2,689.3	47.70	57.375	
13,100.0	10,900.0	10,440.5	8,241.0	52.6	45.7	13.71	-2,063.3	-281.3	2,737.0	2,688.0	49.08	55.764	
13,200.0	10,900.0	10,540.5	8,241.0	53.7	47.0	13.71	-2,163.3	-280.5	2,737.0	2,686.6	50.48	54.220	
13,300.0	10,900.0	10,640.5	8,241.0	54.9	48.3	13.71	-2,263.3	-279.8	2,737.0	2,685.1	51.90	52.740	
13,400.0	10,900.0	10,740.5	8,241.0	56.0	49.6	13.71	-2,363.3	-279.0	2,737.0	2,683.7	53.33	51.322	
13,500.0	10,900.0	10,840.5	8,241.0	57.2	50.9	13.71	-2,463.3	-278.2	2,737.0	2,682.3	54.78	49.964	
13,600.0	10,900.0	10,940.5	8,241.0	58.5	52.3	13.71	-2,563.3	-277.5	2,737.0	2,680.8	56.24	48.663	
13,700.0	10,900.0	11,040.5	8,241.0	59.7	53.7	13.71	-2,663.3	-276.7	2,737.0	2,679.3	57.72	47.418	
13,800.0	10,900.0	11,140.5	8,241.0	61.0	55.0	13.71	-2,763.3	-275.9	2,737.0	2,677.8	59.21	46.225	
13,900.0	10,900.0	11,240.5	8,241.0	62.2	56.4	13.71	-2,863.3	-275.2	2,737.0	2,676.3	60.71	45.081	
14,000.0	10,900.0	11,340.5	8,241.0	63.5	57.9	13.71	-2,963.3	-274.4	2,737.0	2,674.8	62.23	43.986	
14,100.0	10,900.0	11,440.5	8,241.0	64.9	59.3	13.71	-3,063.3	-273.6	2,737.0	2,673.3	63.75	42.935	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #102H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,200.0	10,900.0	11,540.5	8,241.0	66.2	60.7	13.71	-3,163.3	-272.9	2,737.0	2,671.8	65.28	41.928	
14,300.0	10,900.0	11,640.5	8,241.0	67.5	62.2	13.71	-3,263.3	-272.1	2,737.0	2,670.2	66.82	40.961	
14,400.0	10,900.0	11,740.5	8,241.0	68.9	63.6	13.71	-3,363.3	-271.3	2,737.0	2,668.7	68.37	40.034	
14,500.0	10,900.0	11,840.5	8,241.0	70.3	65.1	13.71	-3,463.3	-270.6	2,737.0	2,667.1	69.92	39.143	
14,600.0	10,900.0	11,940.5	8,241.0	71.6	66.5	13.71	-3,563.3	-269.8	2,737.0	2,665.5	71.49	38.287	
14,700.0	10,900.0	12,040.5	8,241.0	73.0	68.0	13.71	-3,663.3	-269.0	2,737.0	2,664.0	73.06	37.464	
14,800.0	10,900.0	12,140.5	8,241.0	74.4	69.5	13.71	-3,763.3	-268.3	2,737.0	2,662.4	74.63	36.673	
14,900.0	10,900.0	12,240.5	8,241.0	75.8	71.0	13.71	-3,863.3	-267.5	2,737.0	2,660.8	76.22	35.912	
15,000.0	10,900.0	12,340.5	8,241.0	77.3	72.5	13.71	-3,963.3	-266.7	2,737.0	2,659.2	77.80	35.179	
15,100.0	10,900.0	12,440.5	8,241.0	78.7	74.0	13.71	-4,063.3	-266.0	2,737.0	2,657.6	79.40	34.473	
15,200.0	10,900.0	12,540.5	8,241.0	80.1	75.5	13.71	-4,163.3	-265.2	2,737.0	2,656.0	80.99	33.793	
15,300.0	10,900.0	12,640.5	8,241.0	81.6	77.1	13.71	-4,263.3	-264.4	2,737.0	2,654.4	82.60	33.138	
15,400.0	10,900.0	12,740.5	8,241.0	83.0	78.6	13.71	-4,363.3	-263.7	2,737.0	2,652.8	84.20	32.506	
15,500.0	10,900.0	12,840.5	8,241.0	84.5	80.1	13.71	-4,463.3	-262.9	2,737.0	2,651.2	85.81	31.896	
15,600.0	10,900.0	12,940.5	8,241.0	86.0	81.6	13.71	-4,563.3	-262.1	2,737.0	2,649.6	87.43	31.307	
15,700.0	10,900.0	13,040.5	8,241.0	87.5	83.2	13.71	-4,663.3	-261.4	2,737.0	2,648.0	89.05	30.738	
15,800.0	10,900.0	13,140.5	8,241.0	88.9	84.7	13.71	-4,763.3	-260.6	2,737.0	2,646.4	90.67	30.188	
15,900.0	10,900.0	13,240.5	8,241.0	90.4	86.3	13.71	-4,863.3	-259.8	2,737.0	2,644.7	92.29	29.656	
16,000.0	10,900.0	13,340.5	8,241.0	91.9	87.8	13.71	-4,963.3	-259.1	2,737.0	2,643.1	93.92	29.142	
16,100.0	10,900.0	13,440.5	8,241.0	93.4	89.4	13.71	-5,063.2	-258.3	2,737.0	2,641.5	95.55	28.645	
16,200.0	10,900.0	13,540.5	8,241.0	94.9	90.9	13.71	-5,163.2	-257.5	2,737.0	2,639.9	97.18	28.163	
16,300.0	10,900.0	13,640.5	8,241.0	96.4	92.5	13.71	-5,263.2	-256.8	2,737.0	2,638.2	98.82	27.697	
16,400.0	10,900.0	13,740.5	8,241.0	98.0	94.1	13.71	-5,363.2	-256.0	2,737.0	2,636.6	100.46	27.245	
16,500.0	10,900.0	13,840.5	8,241.0	99.5	95.6	13.71	-5,463.2	-255.2	2,737.0	2,634.9	102.10	26.807	
16,600.0	10,900.0	13,940.5	8,241.0	101.0	97.2	13.71	-5,563.2	-254.5	2,737.0	2,633.3	103.74	26.382	
16,700.0	10,900.0	14,040.5	8,241.0	102.5	98.8	13.71	-5,663.2	-253.7	2,737.0	2,631.6	105.39	25.970	
16,800.0	10,900.0	14,140.5	8,241.0	104.1	100.3	13.71	-5,763.2	-252.9	2,737.0	2,630.0	107.04	25.571	
16,900.0	10,900.0	14,240.5	8,241.0	105.6	101.9	13.71	-5,863.2	-252.2	2,737.0	2,628.3	108.69	25.182	
17,000.0	10,900.0	14,340.5	8,241.0	107.1	103.5	13.71	-5,963.2	-251.4	2,737.0	2,626.7	110.34	24.805	
17,100.0	10,900.0	14,440.5	8,241.0	108.7	105.1	13.71	-6,063.2	-250.6	2,737.0	2,625.0	111.99	24.439	
17,200.0	10,900.0	14,540.5	8,241.0	110.2	106.7	13.71	-6,163.2	-249.9	2,737.0	2,623.4	113.65	24.083	
17,300.0	10,900.0	14,640.5	8,241.0	111.8	108.2	13.71	-6,263.2	-249.1	2,737.0	2,621.7	115.31	23.737	
17,400.0	10,900.0	14,740.5	8,241.0	113.3	109.8	13.71	-6,363.2	-248.3	2,737.0	2,620.1	116.97	23.400	
17,500.0	10,900.0	14,840.5	8,241.0	114.9	111.4	13.71	-6,463.2	-247.6	2,737.0	2,618.4	118.63	23.073	
17,600.0	10,900.0	14,940.5	8,241.0	116.4	113.0	13.71	-6,563.2	-246.8	2,737.0	2,616.8	120.29	22.754	
17,700.0	10,900.0	15,040.5	8,241.0	118.0	114.6	13.71	-6,663.2	-246.0	2,737.0	2,615.1	121.95	22.444	
17,800.0	10,900.0	15,140.5	8,241.0	119.5	116.2	13.71	-6,763.2	-245.3	2,737.0	2,613.4	123.62	22.141	
17,900.0	10,900.0	15,240.5	8,241.0	121.1	117.8	13.71	-6,863.2	-244.5	2,737.0	2,611.8	125.28	21.847	
18,000.0	10,900.0	15,340.5	8,241.0	122.7	119.4	13.71	-6,963.2	-243.7	2,737.0	2,610.1	126.95	21.560	
18,100.0	10,900.0	15,440.5	8,241.0	124.2	121.0	13.71	-7,063.2	-243.0	2,737.0	2,608.4	128.62	21.280	
18,200.0	10,900.0	15,540.5	8,241.0	125.8	122.6	13.71	-7,163.2	-242.2	2,737.0	2,606.8	130.29	21.008	
18,300.0	10,900.0	15,640.5	8,241.0	127.4	124.2	13.71	-7,263.2	-241.4	2,737.0	2,605.1	131.96	20.742	
18,400.0	10,900.0	15,740.5	8,241.0	129.0	125.8	13.71	-7,363.2	-240.7	2,737.0	2,603.4	133.63	20.482	
18,500.0	10,900.0	15,840.5	8,241.0	130.5	127.4	13.71	-7,463.2	-239.9	2,737.0	2,601.7	135.30	20.229	
18,600.0	10,900.0	15,940.5	8,241.0	132.1	129.0	13.71	-7,563.2	-239.1	2,737.0	2,600.1	136.98	19.982	
18,700.0	10,900.0	16,040.5	8,241.0	133.7	130.6	13.72	-7,663.2	-238.4	2,737.0	2,598.4	138.65	19.740	
18,800.0	10,900.0	16,140.5	8,241.0	135.3	132.2	13.72	-7,763.2	-237.6	2,737.0	2,596.7	140.33	19.505	
18,900.0	10,900.0	16,240.5	8,241.0	136.9	133.8	13.72	-7,863.2	-236.8	2,737.0	2,595.0	142.00	19.274	
19,000.0	10,900.0	16,340.5	8,241.0	138.4	135.4	13.72	-7,963.2	-236.1	2,737.0	2,593.4	143.68	19.049	
19,100.0	10,900.0	16,440.5	8,241.0	140.0	137.0	13.72	-8,063.2	-235.3	2,737.0	2,591.7	145.36	18.829	
19,200.0	10,900.0	16,540.5	8,241.0	141.6	138.6	13.72	-8,163.2	-234.5	2,737.0	2,590.0	147.04	18.614	
19,300.0	10,900.0	16,640.5	8,241.0	143.2	140.3	13.72	-8,263.2	-233.8	2,737.0	2,588.3	148.72	18.404	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #102H - Wellbore #1 - BLM Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,400.0	10,900.0	16,740.5	8,241.0	144.8	141.9	13.72	-8,363.2	-233.0	2,737.0	2,586.6	150.40	18.199		
19,500.0	10,900.0	16,840.5	8,241.0	146.4	143.5	13.72	-8,463.1	-232.2	2,737.0	2,585.0	152.08	17.997		
19,600.0	10,900.0	16,940.5	8,241.0	148.0	145.1	13.72	-8,563.1	-231.5	2,737.0	2,583.3	153.76	17.800		
19,700.0	10,900.0	17,040.5	8,241.0	149.6	146.7	13.72	-8,663.1	-230.7	2,737.0	2,581.6	155.45	17.608		
19,800.0	10,900.0	17,140.5	8,241.0	151.2	148.3	13.72	-8,763.1	-229.9	2,737.0	2,579.9	157.13	17.419		
19,900.0	10,900.0	17,240.5	8,241.0	152.8	149.9	13.72	-8,863.1	-229.2	2,737.0	2,578.2	158.81	17.234		
20,000.0	10,900.0	17,340.5	8,241.0	154.4	151.6	13.72	-8,963.1	-228.4	2,737.0	2,576.5	160.50	17.054		
20,100.0	10,900.0	17,440.5	8,241.0	156.0	153.2	13.72	-9,063.1	-227.6	2,737.0	2,574.9	162.18	16.876		
20,200.0	10,900.0	17,540.5	8,241.0	157.6	154.8	13.72	-9,163.1	-226.9	2,737.0	2,573.2	163.87	16.703		
20,300.0	10,900.0	17,640.5	8,241.0	159.2	156.4	13.72	-9,263.1	-226.1	2,737.0	2,571.5	165.55	16.533		
20,400.0	10,900.0	17,740.5	8,241.0	160.8	158.0	13.72	-9,363.1	-225.3	2,737.0	2,569.8	167.24	16.366		
20,500.0	10,900.0	17,840.5	8,241.0	162.4	159.6	13.72	-9,463.1	-224.6	2,737.0	2,568.1	168.93	16.202		
20,600.0	10,900.0	17,940.5	8,241.0	164.0	161.3	13.72	-9,563.1	-223.8	2,737.0	2,566.4	170.62	16.042		
20,700.0	10,900.0	18,040.5	8,241.0	165.6	162.9	13.72	-9,663.1	-223.0	2,737.0	2,564.7	172.31	15.885		
20,800.0	10,900.0	18,140.5	8,241.0	167.2	164.5	13.72	-9,763.1	-222.3	2,737.0	2,563.0	173.99	15.731		
20,900.0	10,900.0	18,240.5	8,241.0	168.8	166.1	13.72	-9,863.1	-221.5	2,737.0	2,561.4	175.68	15.579		
21,000.0	10,900.0	18,340.5	8,241.0	170.4	167.8	13.72	-9,963.1	-220.7	2,737.0	2,559.7	177.37	15.431		
21,100.0	10,900.0	18,440.5	8,241.0	172.0	169.4	13.72	-10,063.1	-220.0	2,737.0	2,558.0	179.06	15.285		
21,201.2	10,900.0	18,541.7	8,241.0	173.7	171.0	13.72	-10,164.3	-219.2	2,737.0	2,556.3	180.78	15.141		

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #106H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	104.86	-29.3	110.2	114.0				
100.0	100.0	100.0	100.0	0.1	0.1	104.86	-29.3	110.2	114.0	113.8	0.26	444.906	
200.0	200.0	200.0	200.0	0.5	0.5	104.86	-29.3	110.2	114.0	113.1	0.97	117.167	
300.0	300.0	300.0	300.0	0.8	0.8	104.86	-29.3	110.2	114.0	112.3	1.69	67.467	
400.0	400.0	400.0	400.0	1.2	1.2	104.86	-29.3	110.2	114.0	111.6	2.41	47.373	
500.0	500.0	500.0	500.0	1.6	1.6	104.86	-29.3	110.2	114.0	110.9	3.12	36.501	
600.0	600.0	600.0	600.0	1.9	1.9	104.86	-29.3	110.2	114.0	110.2	3.84	29.688	
700.0	700.0	700.0	700.0	2.3	2.3	104.86	-29.3	110.2	114.0	109.5	4.56	25.018	
800.0	800.0	800.0	800.0	2.6	2.6	104.86	-29.3	110.2	114.0	108.8	5.27	21.618	
900.0	900.0	900.0	900.0	3.0	3.0	104.86	-29.3	110.2	114.0	108.0	5.99	19.031	
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	104.86	-29.3	110.2	114.0	107.3	6.71	16.997	
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	104.86	-29.3	110.2	114.0	106.6	7.43	15.356	
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	104.86	-29.3	110.2	114.0	105.9	8.14	14.004	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	104.86	-29.3	110.2	114.0	105.2	8.86	12.871	
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	104.86	-29.3	110.2	114.0	104.5	9.58	11.907	
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	104.86	-29.3	110.2	114.0	103.7	10.29	11.078 CC	
1,600.0	1,600.0	1,599.2	1,599.2	5.5	5.5	104.47	-28.6	110.8	114.4	103.4	11.01	10.395 ES	
1,700.0	1,700.0	1,698.3	1,698.3	5.9	5.9	103.31	-26.6	112.4	115.5	103.8	11.71	9.860	
1,800.0	1,800.0	1,797.3	1,797.2	6.2	6.2	101.44	-23.3	115.1	117.5	105.0	12.42	9.456	
1,900.0	1,900.0	1,896.1	1,895.8	6.6	6.6	98.92	-18.7	118.9	120.4	107.3	13.13	9.172	
2,000.0	2,000.0	1,994.7	1,994.1	6.9	6.9	95.87	-12.7	123.7	124.5	110.7	13.83	9.002	
2,100.0	2,100.0	2,093.0	2,091.9	7.3	7.3	92.44	-5.5	129.6	130.0	115.4	14.53	8.944	
2,200.0	2,200.0	2,190.9	2,189.3	7.7	7.6	88.75	3.0	136.5	137.0	121.8	15.23	8.996	
2,300.0	2,300.0	2,288.5	2,286.0	8.0	8.0	84.98	12.7	144.5	145.7	129.8	15.92	9.155	
2,400.0	2,400.0	2,387.3	2,383.8	8.4	8.4	81.34	23.3	153.2	155.8	139.2	16.62	9.372	
2,500.0	2,500.0	2,486.3	2,481.9	8.7	8.7	78.14	34.0	161.9	166.4	149.1	17.33	9.602	
2,600.0	2,600.0	2,585.5	2,580.1	9.1	9.1	40.41	44.7	170.6	176.8	158.8	18.04	9.803	
2,700.0	2,700.0	2,684.8	2,678.5	9.4	9.5	38.34	55.4	179.4	186.2	167.5	18.75	9.932	
2,800.0	2,799.9	2,784.3	2,777.0	9.8	9.9	36.79	66.1	188.1	194.4	175.0	19.47	9.989	
2,900.0	2,899.7	2,884.0	2,875.8	10.2	10.3	35.65	76.9	196.9	201.4	181.2	20.18	9.977	
3,000.0	2,999.4	2,983.8	2,974.6	10.5	10.7	34.87	87.6	205.7	206.9	186.0	20.90	9.898	
3,100.0	3,098.9	3,083.7	3,073.5	10.9	11.1	34.40	98.4	214.5	211.0	189.4	21.63	9.759	
3,200.0	3,198.3	3,183.7	3,172.5	11.2	11.4	34.22	109.2	223.3	213.7	191.4	22.35	9.563	
3,300.0	3,297.4	3,283.7	3,271.5	11.6	11.8	34.32	119.9	232.1	215.0	191.9	23.08	9.315	
3,400.0	3,396.4	3,383.7	3,370.5	12.0	12.2	34.55	130.7	240.9	215.6	191.7	23.82	9.051	
3,500.0	3,495.5	3,483.7	3,469.6	12.3	12.6	34.78	141.5	249.7	216.1	191.6	24.55	8.802	
3,600.0	3,594.5	3,583.7	3,568.6	12.7	13.0	35.00	152.3	258.5	216.7	191.4	25.29	8.567	
3,700.0	3,693.5	3,683.7	3,667.6	13.1	13.4	35.23	163.1	267.3	217.2	191.2	26.03	8.344	
3,800.0	3,792.5	3,783.7	3,766.6	13.5	13.8	35.46	173.8	276.1	217.8	191.0	26.78	8.134	
3,900.0	3,891.6	3,883.7	3,865.7	13.9	14.3	35.68	184.6	284.9	218.4	190.8	27.52	7.934	
4,000.0	3,990.6	3,983.7	3,964.7	14.2	14.7	35.90	195.4	293.7	218.9	190.7	28.27	7.744	
4,100.0	4,089.6	4,083.7	4,063.7	14.6	15.1	36.13	206.2	302.6	219.5	190.5	29.02	7.564	
4,200.0	4,188.6	4,183.6	4,162.7	15.0	15.5	36.35	216.9	311.4	220.1	190.3	29.77	7.393	
4,300.0	4,287.7	4,283.6	4,261.7	15.4	15.9	36.57	227.7	320.2	220.6	190.1	30.52	7.229	
4,400.0	4,386.7	4,383.6	4,360.8	15.8	16.3	36.78	238.5	329.0	221.2	190.0	31.27	7.074	
4,500.0	4,485.7	4,483.6	4,459.8	16.2	16.7	37.00	249.3	337.8	221.8	189.8	32.03	6.925	
4,600.0	4,584.8	4,583.6	4,558.8	16.6	17.1	37.22	260.0	346.6	222.4	189.6	32.79	6.783	
4,700.0	4,683.8	4,683.6	4,657.8	17.0	17.5	37.43	270.8	355.4	223.0	189.4	33.54	6.648	
4,800.0	4,782.8	4,783.6	4,756.8	17.4	17.9	37.65	281.6	364.2	223.6	189.3	34.30	6.518	
4,900.0	4,881.8	4,883.6	4,855.9	17.8	18.3	37.86	292.4	373.0	224.2	189.1	35.06	6.393	
5,000.0	4,980.9	4,983.6	4,954.9	18.2	18.7	38.07	303.2	381.8	224.8	189.0	35.83	6.274	
5,100.0	5,079.9	5,083.6	5,053.9	18.6	19.1	38.28	313.9	390.6	225.4	188.8	36.59	6.160	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #106H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.0	5,178.9	5,184.0	5,153.4	19.0	19.5	38.50	324.7	399.4	226.0	188.6	37.36	6.049	
5,300.0	5,277.9	5,289.1	5,257.7	19.4	20.0	38.96	334.8	407.6	225.3	187.1	38.18	5.900	
5,400.0	5,377.0	5,394.1	5,362.1	19.8	20.4	39.85	342.6	414.0	222.3	183.3	38.99	5.703	
5,500.0	5,476.0	5,498.7	5,466.5	20.2	20.8	41.22	348.1	418.5	217.2	177.5	39.78	5.461	
5,600.0	5,575.0	5,602.8	5,570.5	20.6	21.1	43.13	351.4	421.3	210.1	169.6	40.56	5.180	
5,700.0	5,674.0	5,706.3	5,674.0	21.0	21.5	45.69	352.6	422.2	201.2	159.9	41.35	4.867	
5,726.0	5,699.8	5,732.1	5,699.8	21.1	21.6	46.43	352.6	422.2	198.7	157.2	41.56	4.782	
5,800.0	5,773.2	5,805.5	5,773.2	21.4	21.8	48.42	352.6	422.2	192.2	150.0	42.16	4.559	
5,900.0	5,872.6	5,904.9	5,872.6	21.7	22.1	50.81	352.6	422.2	185.2	142.3	42.96	4.312	
6,000.0	5,972.3	6,004.6	5,972.3	22.1	22.5	52.74	352.6	422.2	180.2	136.5	43.73	4.121	
6,100.0	6,072.1	6,104.4	6,072.1	22.5	22.8	54.11	352.6	422.2	177.0	132.5	44.48	3.978	
6,200.0	6,172.1	6,204.4	6,172.1	22.8	23.1	54.84	352.6	422.2	175.3	130.1	45.20	3.878	
6,259.3	6,231.4	6,263.7	6,231.4	23.1	23.3	89.99	352.6	422.2	175.0	129.4	45.62	3.837	
6,300.0	6,272.1	6,304.4	6,272.1	23.2	23.5	89.99	352.6	422.2	175.0	129.1	45.90	3.814	
6,400.0	6,372.1	6,404.4	6,372.1	23.5	23.8	89.99	352.6	422.2	175.0	128.4	46.58	3.757	
6,500.0	6,472.1	6,504.4	6,472.1	23.9	24.2	89.99	352.6	422.2	175.0	127.8	47.27	3.703	
6,600.0	6,572.1	6,604.4	6,572.1	24.2	24.5	89.99	352.6	422.2	175.0	127.1	47.96	3.650	
6,700.0	6,672.1	6,704.4	6,672.1	24.6	24.8	89.99	352.6	422.2	175.0	126.4	48.65	3.598	
6,800.0	6,772.1	6,804.4	6,772.1	24.9	25.2	89.99	352.6	422.2	175.0	125.7	49.34	3.547	
6,900.0	6,872.1	6,904.4	6,872.1	25.2	25.5	89.99	352.6	422.2	175.0	125.0	50.03	3.498	
7,000.0	6,972.1	7,004.4	6,972.1	25.6	25.9	89.99	352.6	422.2	175.0	124.3	50.72	3.451	
7,100.0	7,072.1	7,104.4	7,072.1	25.9	26.2	89.99	352.6	422.2	175.0	123.6	51.41	3.404	
7,200.0	7,172.1	7,204.4	7,172.1	26.3	26.5	89.99	352.6	422.2	175.0	122.9	52.11	3.359	
7,300.0	7,272.1	7,304.4	7,272.1	26.6	26.9	89.99	352.6	422.2	175.0	122.2	52.80	3.315	
7,400.0	7,372.1	7,404.4	7,372.1	27.0	27.2	89.99	352.6	422.2	175.0	121.5	53.49	3.272	
7,500.0	7,472.1	7,504.4	7,472.1	27.3	27.6	89.99	352.6	422.2	175.0	120.8	54.19	3.230	
7,600.0	7,572.1	7,604.4	7,572.1	27.7	27.9	89.99	352.6	422.2	175.0	120.1	54.88	3.189	
7,700.0	7,672.1	7,704.4	7,672.1	28.0	28.2	89.99	352.6	422.2	175.0	119.4	55.58	3.149	
7,800.0	7,772.1	7,804.4	7,772.1	28.4	28.6	89.99	352.6	422.2	175.0	118.7	56.28	3.110	
7,900.0	7,872.1	7,904.4	7,872.1	28.7	28.9	89.99	352.6	422.2	175.0	118.1	56.97	3.072	
8,000.0	7,972.1	8,004.4	7,972.1	29.1	29.3	89.99	352.6	422.2	175.0	117.4	57.67	3.035	
8,100.0	8,072.1	8,104.4	8,072.1	29.4	29.6	89.99	352.6	422.2	175.0	116.7	58.37	2.999	
8,200.0	8,172.1	8,204.4	8,172.1	29.7	30.0	89.99	352.6	422.2	175.0	116.0	59.07	2.963	
8,300.0	8,272.1	8,306.2	8,273.5	30.1	30.3	92.40	345.3	421.5	174.5	114.7	59.77	2.919	
8,346.4	8,318.5	8,352.1	8,318.5	30.3	30.4	95.40	336.2	420.6	174.2	114.1	60.14	2.897	
8,400.0	8,372.1	8,402.9	8,367.2	30.4	30.5	100.08	322.0	419.3	174.9	114.3	60.57	2.888 SF	
8,500.0	8,472.1	8,489.6	8,446.8	30.8	30.7	110.92	288.0	416.1	182.6	121.7	60.85	3.000	
8,600.0	8,572.1	8,564.6	8,510.9	31.1	30.8	122.01	249.3	412.4	204.3	144.9	59.39	3.439	
8,700.0	8,672.1	8,628.0	8,560.7	31.5	30.9	131.38	210.2	408.7	242.4	186.4	56.02	4.327	
8,800.0	8,772.1	8,681.1	8,598.8	31.8	30.9	138.55	173.5	405.3	295.1	243.2	51.83	5.693	
8,900.0	8,872.1	8,725.5	8,628.0	32.2	30.9	143.88	140.2	402.1	358.7	310.9	47.76	7.511	
9,000.0	8,972.1	8,762.7	8,650.4	32.5	31.0	147.83	110.6	399.3	430.3	386.1	44.20	9.735	
9,100.0	9,072.1	8,800.0	8,670.9	32.9	31.0	151.33	79.6	396.4	507.6	466.0	41.62	12.196	
9,200.0	9,172.1	8,820.9	8,681.5	33.2	31.0	153.11	61.6	394.7	589.1	550.4	38.74	15.206	
9,300.0	9,272.1	8,850.0	8,695.1	33.6	31.0	155.37	36.1	392.3	673.9	636.8	37.06	18.183	
9,400.0	9,372.1	8,863.7	8,701.0	33.9	31.0	156.36	23.8	391.1	761.0	725.9	35.06	21.708	
9,500.0	9,472.1	8,881.0	8,708.1	34.3	31.0	157.53	8.1	389.6	850.1	816.4	33.69	25.229	
9,600.0	9,572.1	8,900.0	8,715.3	34.6	31.0	158.74	-9.4	388.0	940.7	907.9	32.73	28.737	
9,700.0	9,672.1	8,900.0	8,715.3	35.0	31.0	158.74	-9.4	388.0	1,032.6	1,001.2	31.32	32.967	
9,800.0	9,772.1	8,921.4	8,722.8	35.3	31.0	160.01	-29.4	386.1	1,125.2	1,094.3	30.92	36.391	
9,900.0	9,872.1	8,932.1	8,726.2	35.7	31.1	160.61	-39.4	385.1	1,218.9	1,188.6	30.32	40.203	
10,000.0	9,972.1	8,950.0	8,731.6	36.0	31.1	161.56	-56.5	383.5	1,313.3	1,283.2	30.06	43.687	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #106H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,100.0	10,072.1	8,950.0	8,731.6	36.4	31.1	161.56	-56.5	383.5	1,408.1	1,378.7	29.44	47.826	
10,200.0	10,172.1	8,950.0	8,731.6	36.7	31.1	161.56	-56.5	383.5	1,503.7	1,474.7	28.97	51.909	
10,300.0	10,272.1	8,950.0	8,731.6	37.1	31.1	161.56	-56.5	383.5	1,599.7	1,571.1	28.61	55.917	
10,354.9	10,327.0	8,968.9	8,736.6	37.3	31.1	162.50	-74.6	381.8	1,652.3	1,623.4	28.83	57.318	
10,400.0	10,372.0	8,972.2	8,737.4	37.4	31.1	-7.23	-77.8	381.5	1,695.2	1,666.4	28.73	58.999	
10,450.0	10,421.6	8,976.6	8,738.5	37.6	31.1	-5.71	-82.1	381.1	1,741.5	1,712.9	28.59	60.921	
10,500.0	10,470.5	8,981.8	8,739.7	37.7	31.1	-4.69	-87.1	380.6	1,786.2	1,757.8	28.41	62.882	
10,550.0	10,518.3	9,000.0	8,743.6	37.9	31.1	-3.76	-104.8	378.9	1,829.3	1,800.9	28.40	64.402	
10,600.0	10,564.7	9,000.0	8,743.6	38.0	31.1	-3.32	-104.8	378.9	1,870.0	1,841.9	28.06	66.645	
10,650.0	10,609.2	9,000.0	8,743.6	38.1	31.1	-2.99	-104.8	378.9	1,908.5	1,880.8	27.70	68.890	
10,700.0	10,651.6	9,000.0	8,743.6	38.2	31.1	-2.73	-104.8	378.9	1,944.8	1,917.4	27.35	71.108	
10,750.0	10,691.5	9,000.0	8,743.6	38.3	31.1	-2.52	-104.8	378.9	1,978.5	1,951.5	27.01	73.261	
10,800.0	10,728.6	9,025.8	8,748.1	38.3	31.2	-2.12	-130.0	376.6	2,009.0	1,982.0	26.98	74.458	
10,850.0	10,762.7	9,050.0	8,751.4	38.4	31.2	-1.80	-153.9	374.3	2,037.2	2,010.2	26.92	75.670	
10,900.0	10,793.5	9,050.0	8,751.4	38.4	31.2	-1.71	-153.9	374.3	2,061.8	2,035.2	26.61	77.496	
10,950.0	10,820.7	9,050.0	8,751.4	38.5	31.2	-1.64	-153.9	374.3	2,083.6	2,057.3	26.34	79.102	
11,000.0	10,844.2	9,050.0	8,751.4	38.5	31.2	-1.58	-153.9	374.3	2,102.4	2,076.3	26.14	80.437	
11,050.0	10,863.7	9,072.8	8,753.5	38.6	31.3	-1.38	-176.6	372.2	2,117.6	2,091.4	26.14	81.023	
11,100.0	10,879.1	9,100.0	8,754.8	38.7	31.3	-1.18	-203.6	369.6	2,129.9	2,103.8	26.18	81.363	
11,150.0	10,890.4	9,100.0	8,754.8	38.8	31.3	-1.16	-203.6	369.6	2,138.3	2,112.2	26.13	81.848	
11,200.0	10,897.3	9,100.0	8,754.8	38.9	31.3	-1.15	-203.6	369.6	2,143.6	2,117.4	26.16	81.937	
11,254.9	10,900.0	9,115.0	8,755.0	39.0	31.3	-1.05	-218.5	368.2	2,145.4	2,119.1	26.31	81.529	
11,300.0	10,900.0	9,158.4	8,755.0	39.2	31.5	-0.80	-261.8	364.4	2,145.2	2,118.7	26.51	80.917	
11,400.0	10,900.0	9,256.2	8,755.0	39.5	31.8	-0.36	-359.4	358.4	2,145.0	2,118.0	27.03	79.365	
11,500.0	10,900.0	9,355.4	8,755.0	39.9	32.2	-0.10	-458.5	355.7	2,145.0	2,117.4	27.65	77.572	
11,600.0	10,900.0	9,455.3	8,755.0	40.3	32.6	0.00	-558.4	356.0	2,145.0	2,116.6	28.37	75.610	
11,626.4	10,900.0	9,481.7	8,755.0	40.4	32.8	0.00	-584.8	356.2	2,145.0	2,116.4	28.57	75.074	
11,628.0	10,900.0	9,483.3	8,755.0	40.4	32.8	0.00	-586.5	356.2	2,145.0	2,116.4	28.58	75.041	
11,638.0	10,900.0	9,506.8	8,755.0	40.5	32.9	0.00	-596.4	356.3	2,145.0	2,116.3	28.72	74.678	
11,700.0	10,900.0	9,555.3	8,755.0	40.8	33.2	0.00	-658.4	356.8	2,145.0	2,115.8	29.17	73.547	
11,800.0	10,900.0	9,655.3	8,755.0	41.3	33.8	0.00	-758.4	357.5	2,145.0	2,115.0	30.02	71.448	
11,900.0	10,900.0	9,755.3	8,755.0	41.9	34.5	0.00	-858.4	358.3	2,145.0	2,114.1	30.93	69.341	
12,000.0	10,900.0	9,855.3	8,755.0	42.5	35.2	0.00	-958.4	359.1	2,145.0	2,113.1	31.90	67.248	
12,100.0	10,900.0	9,955.3	8,755.0	43.2	36.0	0.00	-1,058.4	359.8	2,145.0	2,112.1	32.91	65.187	
12,200.0	10,900.0	10,055.3	8,755.0	44.0	36.9	0.00	-1,158.4	360.6	2,145.0	2,111.0	33.96	63.170	
12,300.0	10,900.0	10,155.3	8,755.0	44.8	37.8	0.00	-1,258.4	361.4	2,145.0	2,110.0	35.04	61.209	
12,400.0	10,900.0	10,255.3	8,755.0	45.6	38.8	0.00	-1,358.4	362.2	2,145.0	2,108.8	36.17	59.308	
12,500.0	10,900.0	10,355.3	8,755.0	46.5	39.8	0.00	-1,458.4	362.9	2,145.0	2,107.7	37.32	57.474	
12,600.0	10,900.0	10,455.3	8,755.0	47.4	40.8	0.00	-1,558.4	363.7	2,145.0	2,106.5	38.50	55.709	
12,700.0	10,900.0	10,555.3	8,755.0	48.4	41.9	0.00	-1,658.4	364.5	2,145.0	2,105.3	39.71	54.013	
12,800.0	10,900.0	10,655.3	8,755.0	49.4	43.0	0.00	-1,758.4	365.2	2,145.0	2,104.1	40.95	52.387	
12,900.0	10,900.0	10,755.3	8,755.0	50.4	44.2	0.00	-1,858.4	366.0	2,145.0	2,102.8	42.20	50.830	
13,000.0	10,900.0	10,855.3	8,755.0	51.5	45.4	0.00	-1,958.4	366.8	2,145.0	2,101.5	43.47	49.340	
13,100.0	10,900.0	10,955.3	8,755.0	52.6	46.6	0.00	-2,058.4	367.5	2,145.0	2,100.2	44.77	47.915	
13,200.0	10,900.0	11,055.3	8,755.0	53.7	47.8	0.00	-2,158.4	368.3	2,145.0	2,098.9	46.08	46.553	
13,300.0	10,900.0	11,155.3	8,755.0	54.9	49.1	0.00	-2,258.4	369.1	2,145.0	2,097.6	47.40	45.252	
13,400.0	10,900.0	11,255.3	8,755.0	56.0	50.4	0.00	-2,358.4	369.8	2,145.0	2,096.3	48.74	44.009	
13,500.0	10,900.0	11,355.3	8,755.0	57.2	51.7	0.00	-2,458.3	370.6	2,145.0	2,094.9	50.09	42.821	
13,600.0	10,900.0	11,455.3	8,755.0	58.5	53.0	0.00	-2,558.3	371.4	2,145.0	2,093.5	51.46	41.686	
13,700.0	10,900.0	11,555.3	8,755.0	59.7	54.3	0.00	-2,658.3	372.1	2,145.0	2,092.2	52.83	40.601	
13,800.0	10,900.0	11,655.3	8,755.0	61.0	55.7	0.00	-2,758.3	372.9	2,145.0	2,090.8	54.22	39.564	
13,900.0	10,900.0	11,755.3	8,755.0	62.2	57.1	0.00	-2,858.3	373.7	2,145.0	2,089.4	55.61	38.571	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #106H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,000.0	10,900.0	11,855.3	8,755.0	63.5	58.5	0.00	-2,958.3	374.4	2,145.0	2,088.0	57.02	37.621	
14,100.0	10,900.0	11,955.3	8,755.0	64.9	59.9	0.00	-3,058.3	375.2	2,145.0	2,086.6	58.43	36.712	
14,200.0	10,900.0	12,055.3	8,755.0	66.2	61.3	0.00	-3,158.3	376.0	2,145.0	2,085.2	59.85	35.841	
14,300.0	10,900.0	12,155.3	8,755.0	67.5	62.7	0.00	-3,258.3	376.7	2,145.0	2,083.7	61.27	35.006	
14,400.0	10,900.0	12,255.3	8,755.0	68.9	64.1	0.00	-3,358.3	377.5	2,145.0	2,082.3	62.71	34.206	
14,500.0	10,900.0	12,355.3	8,755.0	70.3	65.6	0.00	-3,458.3	378.3	2,145.0	2,080.9	64.15	33.438	
14,600.0	10,900.0	12,455.3	8,755.0	71.6	67.0	0.00	-3,558.3	379.1	2,145.0	2,079.4	65.59	32.701	
14,700.0	10,900.0	12,555.3	8,755.0	73.0	68.5	0.00	-3,658.3	379.8	2,145.0	2,078.0	67.05	31.993	
14,800.0	10,900.0	12,655.3	8,755.0	74.4	70.0	0.00	-3,758.3	380.6	2,145.0	2,076.5	68.50	31.313	
14,900.0	10,900.0	12,755.3	8,755.0	75.8	71.5	0.00	-3,858.3	381.4	2,145.0	2,075.0	69.96	30.659	
15,000.0	10,900.0	12,855.3	8,755.0	77.3	73.0	0.00	-3,958.3	382.1	2,145.0	2,073.6	71.43	30.030	
15,100.0	10,900.0	12,955.3	8,755.0	78.7	74.4	0.00	-4,058.3	382.9	2,145.0	2,072.1	72.90	29.424	
15,200.0	10,900.0	13,055.3	8,755.0	80.1	75.9	0.00	-4,158.3	383.7	2,145.0	2,070.6	74.37	28.841	
15,300.0	10,900.0	13,155.3	8,755.0	81.6	77.5	0.00	-4,258.3	384.4	2,145.0	2,069.1	75.85	28.279	
15,400.0	10,900.0	13,255.3	8,755.0	83.0	79.0	0.00	-4,358.3	385.2	2,145.0	2,067.7	77.33	27.737	
15,500.0	10,900.0	13,355.3	8,755.0	84.5	80.5	0.00	-4,458.3	386.0	2,145.0	2,066.2	78.82	27.215	
15,600.0	10,900.0	13,455.3	8,755.0	86.0	82.0	0.00	-4,558.3	386.7	2,145.0	2,064.7	80.31	26.711	
15,700.0	10,900.0	13,555.3	8,755.0	87.5	83.5	0.00	-4,658.3	387.5	2,145.0	2,063.2	81.80	26.224	
15,800.0	10,900.0	13,655.3	8,755.0	88.9	85.1	0.00	-4,758.3	388.3	2,145.0	2,061.7	83.29	25.753	
15,900.0	10,900.0	13,755.3	8,755.0	90.4	86.6	0.00	-4,858.3	389.0	2,145.0	2,060.2	84.79	25.299	
16,000.0	10,900.0	13,855.3	8,755.0	91.9	88.1	0.00	-4,958.3	389.8	2,145.0	2,058.7	86.29	24.859	
16,100.0	10,900.0	13,955.3	8,755.0	93.4	89.7	0.00	-5,058.3	390.6	2,145.0	2,057.2	87.79	24.434	
16,200.0	10,900.0	14,055.3	8,755.0	94.9	91.2	0.00	-5,158.3	391.3	2,145.0	2,055.7	89.29	24.023	
16,300.0	10,900.0	14,155.3	8,755.0	96.4	92.8	0.00	-5,258.3	392.1	2,145.0	2,054.2	90.80	23.624	
16,400.0	10,900.0	14,255.3	8,755.0	98.0	94.3	0.00	-5,358.3	392.9	2,145.0	2,052.7	92.31	23.238	
16,500.0	10,900.0	14,355.3	8,755.0	99.5	95.9	0.00	-5,458.3	393.6	2,145.0	2,051.2	93.82	22.864	
16,600.0	10,900.0	14,455.3	8,755.0	101.0	97.5	0.00	-5,558.3	394.4	2,145.0	2,049.7	95.33	22.501	
16,700.0	10,900.0	14,555.3	8,755.0	102.5	99.0	0.00	-5,658.3	395.2	2,145.0	2,048.2	96.84	22.150	
16,800.0	10,900.0	14,655.3	8,755.0	104.1	100.6	0.00	-5,758.3	396.0	2,145.0	2,046.6	98.36	21.808	
16,900.0	10,900.0	14,755.3	8,755.0	105.6	102.2	0.00	-5,858.2	396.7	2,145.0	2,045.1	99.87	21.477	
17,000.0	10,900.0	14,855.3	8,755.0	107.1	103.7	0.00	-5,958.2	397.5	2,145.0	2,043.6	101.39	21.155	
17,100.0	10,900.0	14,955.3	8,755.0	108.7	105.3	0.00	-6,058.2	398.3	2,145.0	2,042.1	102.91	20.843	
17,200.0	10,900.0	15,055.3	8,755.0	110.2	106.9	0.00	-6,158.2	399.0	2,145.0	2,040.6	104.43	20.539	
17,300.0	10,900.0	15,155.3	8,755.0	111.8	108.5	0.00	-6,258.2	399.8	2,145.0	2,039.0	105.96	20.244	
17,400.0	10,900.0	15,255.3	8,755.0	113.3	110.0	0.00	-6,358.2	400.6	2,145.0	2,037.5	107.48	19.957	
17,500.0	10,900.0	15,355.3	8,755.0	114.9	111.6	0.00	-6,458.2	401.3	2,145.0	2,036.0	109.01	19.677	
17,600.0	10,900.0	15,455.3	8,755.0	116.4	113.2	0.00	-6,558.2	402.1	2,145.0	2,034.5	110.54	19.406	
17,700.0	10,900.0	15,555.3	8,755.0	118.0	114.8	0.00	-6,658.2	402.9	2,145.0	2,032.9	112.06	19.141	
17,800.0	10,900.0	15,655.3	8,755.0	119.5	116.4	0.00	-6,758.2	403.6	2,145.0	2,031.4	113.59	18.883	
17,900.0	10,900.0	15,755.3	8,755.0	121.1	118.0	0.00	-6,858.2	404.4	2,145.0	2,029.9	115.12	18.632	
18,000.0	10,900.0	15,855.3	8,755.0	122.7	119.6	0.00	-6,958.2	405.2	2,145.0	2,028.3	116.65	18.388	
18,100.0	10,900.0	15,955.3	8,755.0	124.2	121.2	0.00	-7,058.2	405.9	2,145.0	2,026.8	118.19	18.149	
18,200.0	10,900.0	16,055.3	8,755.0	125.8	122.7	0.00	-7,158.2	406.7	2,145.0	2,025.3	119.72	17.917	
18,300.0	10,900.0	16,155.3	8,755.0	127.4	124.3	0.00	-7,258.2	407.5	2,145.0	2,023.7	121.25	17.690	
18,400.0	10,900.0	16,255.3	8,755.0	129.0	125.9	0.00	-7,358.2	408.2	2,145.0	2,022.2	122.79	17.469	
18,500.0	10,900.0	16,355.3	8,755.0	130.5	127.5	0.00	-7,458.2	409.0	2,145.0	2,020.7	124.33	17.253	
18,600.0	10,900.0	16,455.3	8,755.0	132.1	129.1	0.00	-7,558.2	409.8	2,145.0	2,019.1	125.86	17.042	
18,700.0	10,900.0	16,555.3	8,755.0	133.7	130.7	0.00	-7,658.2	410.6	2,145.0	2,017.6	127.40	16.837	
18,800.0	10,900.0	16,655.3	8,755.0	135.3	132.3	0.00	-7,758.2	411.3	2,145.0	2,016.1	128.94	16.636	
18,900.0	10,900.0	16,755.3	8,755.0	136.9	133.9	0.00	-7,858.2	412.1	2,145.0	2,014.5	130.48	16.440	
19,000.0	10,900.0	16,855.3	8,755.0	138.4	135.5	0.00	-7,958.2	412.9	2,145.0	2,013.0	132.02	16.248	
19,100.0	10,900.0	16,955.3	8,755.0	140.0	137.1	0.00	-8,058.2	413.6	2,145.0	2,011.4	133.56	16.060	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design		Boros - Boros Federal #106H - Wellbore #1 - BLM Plan #1										Offset Site Error:		0.0 usft
Survey Program: 0-MWD												Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,200.0	10,900.0	17,055.3	8,755.0	141.6	138.8	0.00	-8,158.2	414.4	2,145.0	2,009.9	135.10	15.877		
19,300.0	10,900.0	17,155.3	8,755.0	143.2	140.4	0.00	-8,258.2	415.2	2,145.0	2,008.4	136.64	15.698		
19,400.0	10,900.0	17,255.3	8,755.0	144.8	142.0	0.00	-8,358.2	415.9	2,145.0	2,006.8	138.18	15.523		
19,500.0	10,900.0	17,355.3	8,755.0	146.4	143.6	0.00	-8,458.2	416.7	2,145.0	2,005.3	139.73	15.351		
19,600.0	10,900.0	17,455.3	8,755.0	148.0	145.2	0.00	-8,558.2	417.5	2,145.0	2,003.7	141.27	15.184		
19,700.0	10,900.0	17,555.3	8,755.0	149.6	146.8	0.00	-8,658.2	418.2	2,145.0	2,002.2	142.81	15.019		
19,800.0	10,900.0	17,655.3	8,755.0	151.2	148.4	0.00	-8,758.2	419.0	2,145.0	2,000.6	144.36	14.859		
19,900.0	10,900.0	17,755.3	8,755.0	152.8	150.0	0.00	-8,858.2	419.8	2,145.0	1,999.1	145.90	14.701		
20,000.0	10,900.0	17,855.3	8,755.0	154.4	151.6	0.00	-8,958.2	420.5	2,145.0	1,997.5	147.45	14.547		
20,100.0	10,900.0	17,955.3	8,755.0	156.0	153.3	0.00	-9,058.2	421.3	2,145.0	1,996.0	149.00	14.396		
20,200.0	10,900.0	18,055.3	8,755.0	157.6	154.9	0.00	-9,158.2	422.1	2,145.0	1,994.5	150.54	14.248		
20,300.0	10,900.0	18,155.3	8,755.0	159.2	156.5	0.00	-9,258.1	422.8	2,145.0	1,992.9	152.09	14.103		
20,400.0	10,900.0	18,255.3	8,755.0	160.8	158.1	0.00	-9,358.1	423.6	2,145.0	1,991.4	153.64	13.961		
20,500.0	10,900.0	18,355.3	8,755.0	162.4	159.7	0.00	-9,458.1	424.4	2,145.0	1,989.8	155.19	13.822		
20,600.0	10,900.0	18,455.3	8,755.0	164.0	161.3	0.00	-9,558.1	425.1	2,145.0	1,988.3	156.73	13.686		
20,700.0	10,900.0	18,555.3	8,755.0	165.6	162.9	0.00	-9,658.1	425.9	2,145.0	1,986.7	158.28	13.552		
20,800.0	10,900.0	18,655.3	8,755.0	167.2	164.6	0.00	-9,758.1	426.7	2,145.0	1,985.2	159.83	13.420		
20,900.0	10,900.0	18,755.3	8,755.0	168.8	166.2	0.00	-9,858.1	427.5	2,145.0	1,983.6	161.38	13.291		
21,000.0	10,900.0	18,855.3	8,755.0	170.4	167.8	0.00	-9,958.1	428.2	2,145.0	1,982.1	162.93	13.165		
21,100.0	10,900.0	18,955.3	8,755.0	172.0	169.4	0.00	-10,058.1	429.0	2,145.0	1,980.5	164.48	13.041		
21,201.2	10,900.0	19,056.5	8,755.0	173.7	171.1	0.00	-10,159.3	429.8	2,145.0	1,978.9	166.05	12.918		

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #112H - Wellbore #1 - BLM Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.60	0.6	80.1	80.1					
100.0	100.0	100.0	100.0	0.1	0.1	89.60	0.6	80.1	80.1	79.8	0.26	312.388		
200.0	200.0	200.0	200.0	0.5	0.5	89.60	0.6	80.1	80.1	79.1	0.97	82.268		
300.0	300.0	300.0	300.0	0.8	0.8	89.60	0.6	80.1	80.1	78.4	1.69	47.372		
400.0	400.0	400.0	400.0	1.2	1.2	89.60	0.6	80.1	80.1	77.7	2.41	33.263		
500.0	500.0	500.0	500.0	1.6	1.6	89.60	0.6	80.1	80.1	76.9	3.12	25.629		
600.0	600.0	600.0	600.0	1.9	1.9	89.60	0.6	80.1	80.1	76.2	3.84	20.845		
700.0	700.0	700.0	700.0	2.3	2.3	89.60	0.6	80.1	80.1	75.5	4.56	17.566		
800.0	800.0	800.0	800.0	2.6	2.6	89.60	0.6	80.1	80.1	74.8	5.27	15.179		
900.0	900.0	900.0	900.0	3.0	3.0	89.60	0.6	80.1	80.1	74.1	5.99	13.363		
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	89.60	0.6	80.1	80.1	73.4	6.71	11.935		
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	89.60	0.6	80.1	80.1	72.6	7.43	10.782		
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	89.60	0.6	80.1	80.1	71.9	8.14	9.833		
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	89.60	0.6	80.1	80.1	71.2	8.86	9.037		
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	89.60	0.6	80.1	80.1	70.5	9.58	8.361		
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	89.60	0.6	80.1	80.1	69.8	10.29	7.778		
1,600.0	1,600.0	1,600.0	1,600.0	5.5	5.5	89.60	0.6	80.1	80.1	69.1	11.01	7.272		
1,700.0	1,700.0	1,700.0	1,700.0	5.9	5.9	89.60	0.6	80.1	80.1	68.3	11.73	6.827		
1,800.0	1,800.0	1,800.0	1,800.0	6.2	6.2	89.60	0.6	80.1	80.1	67.6	12.44	6.434		
1,900.0	1,900.0	1,900.0	1,900.0	6.6	6.6	89.60	0.6	80.1	80.1	66.9	13.16	6.084		
2,000.0	2,000.0	2,000.0	2,000.0	6.9	6.9	89.60	0.6	80.1	80.1	66.2	13.88	5.769		
2,100.0	2,100.0	2,100.0	2,100.0	7.3	7.3	89.60	0.6	80.1	80.1	65.5	14.60	5.486		
2,200.0	2,200.0	2,200.0	2,200.0	7.7	7.7	89.60	0.6	80.1	80.1	64.8	15.31	5.229		
2,300.0	2,300.0	2,300.0	2,300.0	8.0	8.0	89.60	0.6	80.1	80.1	64.0	16.03	4.995		
2,400.0	2,400.0	2,400.0	2,400.0	8.4	8.4	89.60	0.6	80.1	80.1	63.3	16.75	4.781		
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	89.60	0.6	80.1	80.1	62.6	17.46	4.585		
2,600.0	2,600.0	2,600.0	2,600.0	9.1	9.1	55.08	0.6	80.1	79.6	61.4	18.18	4.377		
2,700.0	2,700.0	2,700.0	2,700.0	9.4	9.4	56.67	0.6	80.1	78.1	59.2	18.89	4.134		
2,800.0	2,799.9	2,800.1	2,799.9	9.8	9.8	59.44	0.6	80.1	75.8	56.2	19.61	3.866		
2,900.0	2,899.7	2,900.3	2,899.7	10.2	10.2	63.60	0.6	80.1	72.9	52.5	20.32	3.586		
3,000.0	2,999.4	2,999.4	2,999.4	10.5	10.5	69.40	0.6	80.1	69.7	48.7	21.03	3.315		
3,100.0	3,098.9	3,099.9	3,099.9	10.9	10.9	76.82	1.2	79.5	66.2	44.4	21.75	3.044		
3,200.0	3,198.3	3,200.3	3,200.3	11.2	11.2	85.96	3.3	77.8	62.1	39.6	22.45	2.764		
3,300.0	3,297.4	3,300.6	3,300.4	11.6	11.6	97.48	6.7	75.1	58.2	35.0	23.16	2.512		
3,400.0	3,396.4	3,400.6	3,400.3	12.0	11.9	110.98	11.4	71.2	55.4	31.6	23.86	2.323		
3,500.0	3,495.5	3,500.6	3,499.9	12.3	12.3	125.59	17.5	66.2	54.3	29.8	24.57	2.212		
3,505.5	3,500.9	3,506.1	3,505.4	12.4	12.3	126.42	17.8	65.9	54.3	29.7	24.61	2.208 CC, ES		
3,600.0	3,594.5	3,600.3	3,599.2	12.7	12.7	140.81	24.8	60.1	55.4	30.1	25.27	2.190 SF		
3,700.0	3,693.5	3,699.9	3,698.1	13.1	13.0	155.80	33.6	53.0	58.9	32.9	25.99	2.266		
3,800.0	3,792.5	3,799.1	3,796.5	13.5	13.4	169.68	43.6	44.8	65.2	38.4	26.72	2.438		
3,900.0	3,891.6	3,902.3	3,894.2	13.9	13.8	-178.78	54.2	36.1	74.3	46.8	27.47	2.704		
4,000.0	3,990.6	4,003.7	3,991.8	14.2	14.1	-169.99	64.8	27.3	85.7	57.5	28.21	3.040		
4,100.0	4,089.6	4,105.1	4,089.4	14.6	14.5	-163.36	75.4	18.6	98.7	69.8	28.94	3.411		
4,200.0	4,188.6	4,206.6	4,187.0	15.0	14.9	-158.32	86.0	9.9	112.7	83.1	29.68	3.798		
4,300.0	4,287.7	4,308.0	4,284.6	15.4	15.3	-154.40	96.6	1.2	127.4	97.0	30.42	4.188		
4,400.0	4,386.7	4,409.4	4,382.3	15.8	15.7	-151.29	107.2	-7.5	142.5	111.4	31.17	4.573		
4,500.0	4,485.7	4,489.2	4,479.9	16.2	16.0	-148.79	117.8	-16.2	158.0	126.2	31.83	4.964		
4,600.0	4,584.8	4,587.8	4,577.5	16.6	16.3	-146.73	128.4	-24.9	173.7	141.1	32.57	5.333		
4,700.0	4,683.8	4,686.4	4,675.1	17.0	16.7	-145.02	139.0	-33.6	189.6	156.3	33.31	5.691		
4,800.0	4,782.8	4,784.9	4,772.8	17.4	17.1	-143.57	149.6	-42.3	205.6	171.6	34.06	6.038		
4,900.0	4,881.8	4,883.5	4,870.4	17.8	17.5	-142.33	160.2	-51.0	221.8	187.0	34.81	6.372		
5,000.0	4,980.9	4,982.1	4,968.0	18.2	17.9	-141.26	170.8	-59.7	238.0	202.4	35.56	6.694		

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #112H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.0	5,079.9	5,080.7	5,065.6	18.6	18.3	-140.33	181.4	-68.4	254.3	218.0	36.31	7.004	
5,200.0	5,178.9	5,179.3	5,163.3	19.0	18.6	-139.51	192.0	-77.1	270.7	233.6	37.06	7.303	
5,300.0	5,277.9	5,277.9	5,260.9	19.4	19.0	-138.78	202.6	-85.8	287.1	249.2	37.82	7.591	
5,400.0	5,377.0	5,376.4	5,358.5	19.8	19.4	-138.13	213.2	-94.6	303.5	264.9	38.57	7.869	
5,500.0	5,476.0	5,475.0	5,456.1	20.2	19.8	-137.55	223.8	-103.3	320.0	280.7	39.33	8.136	
5,600.0	5,575.0	5,573.6	5,553.8	20.6	20.2	-137.02	234.4	-112.0	336.5	296.4	40.09	8.394	
5,700.0	5,674.0	5,672.2	5,651.4	21.0	20.6	-136.55	245.0	-120.7	353.0	312.2	40.85	8.642	
5,726.0	5,699.8	5,702.2	5,676.7	21.1	20.7	-136.43	247.8	-122.9	357.3	316.3	41.07	8.702	
5,800.0	5,773.2	5,770.8	5,749.1	21.4	21.0	-136.16	255.6	-129.4	369.1	327.5	41.61	8.870	
5,900.0	5,872.6	5,869.7	5,847.0	21.7	21.4	-135.57	266.3	-138.1	383.4	341.0	42.37	9.048	
6,000.0	5,972.3	5,968.7	5,945.0	22.1	21.8	-134.75	276.9	-146.9	395.9	352.8	43.12	9.181	
6,100.0	6,072.1	6,067.8	6,043.1	22.5	22.2	-133.71	287.6	-155.6	406.7	362.8	43.86	9.272	
6,200.0	6,172.1	6,166.9	6,141.2	22.8	22.6	-132.45	298.2	-164.4	415.9	371.3	44.60	9.325	
6,259.3	6,231.4	6,225.6	6,199.4	23.1	22.8	-96.57	304.5	-169.6	420.7	375.6	45.03	9.341	
6,300.0	6,272.1	6,265.9	6,239.3	23.2	23.0	-95.93	308.9	-173.1	423.8	378.5	45.33	9.349	
6,400.0	6,372.1	6,365.4	6,337.8	23.5	23.4	-94.40	319.6	-181.9	431.7	385.6	46.06	9.372	
6,500.0	6,472.1	6,471.7	6,443.4	23.9	23.8	-92.99	329.7	-190.2	438.9	392.1	46.86	9.366	
6,600.0	6,572.1	6,578.7	6,549.9	24.2	24.2	-91.92	337.7	-196.7	444.7	397.0	47.65	9.332	
6,700.0	6,672.1	6,686.2	6,657.1	24.6	24.6	-91.18	343.3	-201.4	448.9	400.4	48.43	9.269	
6,800.0	6,772.1	6,794.1	6,764.8	24.9	25.0	-90.76	346.6	-204.1	451.3	402.2	49.18	9.178	
6,900.0	6,872.1	6,901.3	6,872.1	25.2	25.3	-90.63	347.6	-204.9	452.1	402.2	49.90	9.059	
7,000.0	6,972.1	7,001.3	6,972.1	25.6	25.7	-90.63	347.6	-204.9	452.1	401.5	50.60	8.934	
7,100.0	7,072.1	7,101.3	7,072.1	25.9	26.0	-90.63	347.6	-204.9	452.1	400.8	51.29	8.814	
7,200.0	7,172.1	7,201.3	7,172.1	26.3	26.4	-90.63	347.6	-204.9	452.1	400.1	51.99	8.696	
7,300.0	7,272.1	7,301.3	7,272.1	26.6	26.7	-90.63	347.6	-204.9	452.1	399.4	52.68	8.581	
7,400.0	7,372.1	7,401.3	7,372.1	27.0	27.1	-90.63	347.6	-204.9	452.1	398.7	53.38	8.469	
7,500.0	7,472.1	7,501.3	7,472.1	27.3	27.4	-90.63	347.6	-204.9	452.1	398.0	54.08	8.360	
7,600.0	7,572.1	7,601.3	7,572.1	27.7	27.8	-90.63	347.6	-204.9	452.1	397.3	54.77	8.253	
7,700.0	7,672.1	7,701.3	7,672.1	28.0	28.1	-90.63	347.6	-204.9	452.1	396.6	55.47	8.149	
7,800.0	7,772.1	7,801.3	7,772.1	28.4	28.4	-90.63	347.6	-204.9	452.1	395.9	56.17	8.048	
7,900.0	7,872.1	7,901.3	7,872.1	28.7	28.8	-90.63	347.6	-204.9	452.1	395.2	56.87	7.949	
8,000.0	7,972.1	8,001.3	7,972.1	29.1	29.1	-90.63	347.6	-204.9	452.1	394.5	57.57	7.853	
8,100.0	8,072.1	8,101.3	8,072.1	29.4	29.5	-90.63	347.6	-204.9	452.1	393.8	58.27	7.758	
8,200.0	8,172.1	8,201.3	8,172.1	29.7	29.8	-90.63	347.6	-204.9	452.1	393.1	58.97	7.666	
8,300.0	8,272.1	8,301.3	8,272.1	30.1	30.2	-90.63	347.6	-204.9	452.1	392.4	59.67	7.576	
8,400.0	8,372.1	8,401.3	8,372.1	30.4	30.5	-90.63	347.6	-204.9	452.1	391.7	60.37	7.488	
8,500.0	8,472.1	8,501.3	8,472.1	30.8	30.9	-90.63	347.6	-204.9	452.1	391.0	61.07	7.402	
8,600.0	8,572.1	8,601.3	8,572.1	31.1	31.2	-90.63	347.6	-204.9	452.1	390.3	61.77	7.318	
8,700.0	8,672.1	8,701.3	8,672.1	31.5	31.6	-90.63	347.6	-204.9	452.1	389.6	62.47	7.236	
8,715.3	8,687.3	8,716.5	8,687.3	31.5	31.6	-90.63	347.6	-204.9	452.1	389.5	62.58	7.224	
8,800.0	8,772.1	8,800.9	8,771.7	31.8	31.9	-90.63	347.6	-204.9	452.1	388.9	63.17	7.156	
8,900.0	8,872.1	8,890.8	8,861.2	32.2	32.2	-91.59	340.0	-205.8	453.2	389.5	63.78	7.106	
9,000.0	8,972.1	8,976.3	8,944.2	32.5	32.4	-94.09	320.0	-208.2	457.3	393.1	64.26	7.117	
9,100.0	9,072.1	9,054.4	9,016.6	32.9	32.6	-97.61	291.2	-211.6	466.1	401.7	64.47	7.230	
9,200.0	9,172.1	9,123.4	9,076.8	33.2	32.7	-101.57	257.9	-215.6	481.8	417.7	64.18	7.507	
9,300.0	9,272.1	9,183.2	9,125.5	33.6	32.8	-105.48	223.3	-219.7	506.1	442.9	63.22	8.006	
9,400.0	9,372.1	9,234.5	9,164.1	33.9	32.9	-109.07	189.8	-223.7	539.9	478.3	61.56	8.770	
9,500.0	9,472.1	9,278.4	9,194.5	34.3	32.9	-112.24	158.5	-227.4	583.0	523.7	59.34	9.824	
9,600.0	9,572.1	9,315.8	9,218.6	34.6	33.0	-114.97	130.0	-230.8	634.7	577.9	56.81	11.174	
9,700.0	9,672.1	9,350.0	9,238.9	35.0	33.0	-117.44	102.7	-234.1	694.0	639.7	54.25	12.793	
9,800.0	9,772.1	9,375.6	9,253.0	35.3	33.0	-119.26	81.5	-236.6	759.5	707.9	51.60	14.720	
9,900.0	9,872.1	9,400.0	9,265.6	35.7	33.0	-120.97	60.7	-239.1	830.3	781.1	49.22	16.870	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #112H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,000.0	9,972.1	9,420.5	9,275.4	36.0	33.0	-122.38	42.9	-241.2	905.4	858.4	47.03	19.252	
10,100.0	10,072.1	9,450.0	9,288.4	36.4	33.0	-124.36	16.6	-244.4	984.1	938.7	45.46	21.650	
10,200.0	10,172.1	9,450.0	9,288.4	36.7	33.0	-124.36	16.6	-244.4	1,065.5	1,022.2	43.24	24.641	
10,300.0	10,272.1	9,469.5	9,296.3	37.1	33.0	-125.62	-1.1	-246.5	1,149.3	1,107.4	41.91	27.420	
10,354.9	10,327.0	9,476.7	9,299.1	37.3	33.0	-126.09	-7.8	-247.3	1,196.2	1,155.0	41.19	29.043	
10,400.0	10,372.0	9,482.9	9,301.3	37.4	33.0	55.38	-13.4	-247.9	1,234.7	1,194.0	40.62	30.395	
10,450.0	10,421.6	9,500.0	9,307.3	37.6	33.1	48.66	-29.4	-249.8	1,276.6	1,236.3	40.26	31.711	
10,500.0	10,470.5	9,500.0	9,307.3	37.7	33.1	43.66	-29.4	-249.8	1,317.2	1,277.7	39.45	33.385	
10,550.0	10,518.3	9,500.0	9,307.3	37.9	33.1	39.43	-29.4	-249.8	1,356.5	1,317.8	38.68	35.069	
10,600.0	10,564.7	9,517.9	9,313.1	38.0	33.1	35.64	-46.1	-251.8	1,394.1	1,355.8	38.34	36.359	
10,650.0	10,609.2	9,528.2	9,316.2	38.1	33.1	32.64	-55.9	-253.0	1,429.9	1,392.1	37.85	37.778	
10,700.0	10,651.6	9,550.0	9,322.1	38.2	33.1	30.12	-76.8	-255.5	1,463.9	1,426.3	37.61	38.920	
10,750.0	10,691.5	9,550.0	9,322.1	38.3	33.1	28.14	-76.8	-255.5	1,495.5	1,458.5	36.98	40.441	
10,800.0	10,728.6	9,550.0	9,322.1	38.3	33.1	26.46	-76.8	-255.5	1,525.0	1,488.6	36.42	41.872	
10,850.0	10,762.7	9,573.6	9,327.7	38.4	33.2	25.08	-99.5	-258.2	1,551.9	1,515.5	36.31	42.735	
10,900.0	10,793.5	9,600.0	9,332.7	38.4	33.3	23.98	-125.3	-261.3	1,576.5	1,540.3	36.27	43.462	
10,950.0	10,820.7	9,600.0	9,332.7	38.5	33.3	23.03	-125.3	-261.3	1,598.1	1,562.2	35.92	44.494	
11,000.0	10,844.2	9,600.0	9,332.7	38.5	33.3	22.23	-125.3	-261.3	1,617.3	1,581.7	35.68	45.335	
11,050.0	10,863.7	9,623.4	9,336.2	38.6	33.3	21.70	-148.2	-264.0	1,633.5	1,597.7	35.77	45.661	
11,100.0	10,879.1	9,650.0	9,339.0	38.7	33.4	21.36	-174.5	-267.1	1,647.2	1,611.2	35.95	45.813	
11,150.0	10,890.4	9,650.0	9,339.0	38.8	33.4	20.97	-174.5	-267.1	1,657.6	1,621.6	36.00	46.044	
11,200.0	10,897.3	9,650.0	9,339.0	38.9	33.4	20.69	-174.5	-267.1	1,665.4	1,629.2	36.18	46.035	
11,254.9	10,900.0	9,676.3	9,340.6	39.0	33.5	20.73	-200.6	-270.3	1,670.2	1,633.6	36.61	45.620	
11,300.0	10,900.0	9,697.2	9,341.0	39.2	33.5	20.96	-221.4	-272.7	1,673.3	1,636.3	37.00	45.225	
11,400.0	10,900.0	9,778.4	9,341.0	39.5	33.8	21.63	-302.0	-281.2	1,680.9	1,643.0	37.94	44.309	
11,500.0	10,900.0	9,905.6	9,341.0	39.9	34.3	22.29	-429.0	-289.9	1,686.2	1,647.3	38.88	43.373	
11,600.0	10,900.0	10,034.4	9,341.0	40.3	34.9	22.59	-557.8	-292.9	1,688.6	1,648.8	39.75	42.485	
11,638.0	10,900.0	10,078.0	9,341.0	40.5	35.1	22.60	-601.4	-292.6	1,688.7	1,648.7	40.04	42.175	
11,700.0	10,900.0	10,140.1	9,341.0	40.8	35.4	22.60	-663.4	-292.2	1,688.7	1,648.2	40.52	41.677	
11,800.0	10,900.0	10,240.1	9,341.0	41.3	36.0	22.60	-763.4	-291.4	1,688.7	1,647.4	41.35	40.844	
11,900.0	10,900.0	10,340.1	9,341.0	41.9	36.7	22.60	-863.4	-290.6	1,688.7	1,646.5	42.24	39.975	
12,000.0	10,900.0	10,440.1	9,341.0	42.5	37.4	22.60	-963.4	-289.9	1,688.7	1,645.5	43.21	39.082	
12,100.0	10,900.0	10,540.1	9,341.0	43.2	38.2	22.60	-1,063.4	-289.1	1,688.7	1,644.5	44.24	38.174	
12,200.0	10,900.0	10,640.1	9,341.0	44.0	39.0	22.60	-1,163.4	-288.3	1,688.7	1,643.4	45.32	37.260	
12,300.0	10,900.0	10,740.1	9,341.0	44.8	39.9	22.60	-1,263.4	-287.6	1,688.7	1,642.2	46.46	36.346	
12,400.0	10,900.0	10,840.1	9,341.0	45.6	40.8	22.60	-1,363.4	-286.8	1,688.7	1,641.1	47.65	35.438	
12,500.0	10,900.0	10,940.1	9,341.0	46.5	41.8	22.60	-1,463.4	-286.0	1,688.7	1,639.8	48.89	34.541	
12,600.0	10,900.0	11,040.1	9,341.0	47.4	42.8	22.60	-1,563.4	-285.3	1,688.7	1,638.5	50.17	33.660	
12,700.0	10,900.0	11,140.1	9,341.0	48.4	43.8	22.60	-1,663.4	-284.5	1,688.7	1,637.2	51.49	32.797	
12,800.0	10,900.0	11,240.1	9,341.0	49.4	44.9	22.60	-1,763.4	-283.7	1,688.7	1,635.9	52.85	31.955	
12,900.0	10,900.0	11,340.1	9,341.0	50.4	46.1	22.60	-1,863.4	-283.0	1,688.7	1,634.5	54.24	31.135	
13,000.0	10,900.0	11,440.1	9,341.0	51.5	47.2	22.60	-1,963.3	-282.2	1,688.7	1,633.0	55.66	30.340	
13,100.0	10,900.0	11,540.1	9,341.0	52.6	48.4	22.60	-2,063.3	-281.4	1,688.7	1,631.6	57.11	29.568	
13,200.0	10,900.0	11,640.1	9,341.0	53.7	49.6	22.60	-2,163.3	-280.6	1,688.7	1,630.1	58.59	28.822	
13,300.0	10,900.0	11,740.1	9,341.0	54.9	50.8	22.60	-2,263.3	-279.9	1,688.7	1,628.6	60.10	28.100	
13,400.0	10,900.0	11,840.1	9,341.0	56.0	52.1	22.60	-2,363.3	-279.1	1,688.7	1,627.1	61.62	27.404	
13,500.0	10,900.0	11,940.1	9,341.0	57.2	53.3	22.60	-2,463.3	-278.3	1,688.7	1,625.5	63.17	26.731	
13,600.0	10,900.0	12,040.1	9,341.0	58.5	54.6	22.60	-2,563.3	-277.6	1,688.7	1,624.0	64.74	26.083	
13,700.0	10,900.0	12,140.1	9,341.0	59.7	56.0	22.60	-2,663.3	-276.8	1,688.7	1,622.4	66.33	25.459	
13,800.0	10,900.0	12,240.1	9,341.0	61.0	57.3	22.60	-2,763.3	-276.0	1,688.7	1,620.8	67.94	24.857	
13,900.0	10,900.0	12,340.1	9,341.0	62.2	58.6	22.60	-2,863.3	-275.3	1,688.7	1,619.1	69.56	24.278	
14,000.0	10,900.0	12,440.1	9,341.0	63.5	60.0	22.60	-2,963.3	-274.5	1,688.7	1,617.5	71.19	23.720	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #112H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,100.0	10,900.0	12,540.1	9,341.0	64.9	61.4	22.60	-3,063.3	-273.7	1,688.7	1,615.9	72.84	23.182	
14,200.0	10,900.0	12,640.1	9,341.0	66.2	62.8	22.60	-3,163.3	-273.0	1,688.7	1,614.2	74.51	22.664	
14,300.0	10,900.0	12,740.1	9,341.0	67.5	64.2	22.60	-3,263.3	-272.2	1,688.7	1,612.5	76.18	22.166	
14,400.0	10,900.0	12,840.1	9,341.0	68.9	65.6	22.60	-3,363.3	-271.4	1,688.7	1,610.8	77.87	21.685	
14,500.0	10,900.0	12,940.1	9,341.0	70.3	67.0	22.60	-3,463.3	-270.7	1,688.7	1,609.1	79.57	21.223	
14,600.0	10,900.0	13,040.1	9,341.0	71.6	68.4	22.60	-3,563.3	-269.9	1,688.7	1,607.4	81.28	20.776	
14,700.0	10,900.0	13,140.1	9,341.0	73.0	69.9	22.60	-3,663.3	-269.1	1,688.7	1,605.7	83.00	20.346	
14,800.0	10,900.0	13,240.1	9,341.0	74.4	71.3	22.60	-3,763.3	-268.4	1,688.7	1,604.0	84.72	19.932	
14,900.0	10,900.0	13,340.1	9,341.0	75.8	72.8	22.60	-3,863.3	-267.6	1,688.7	1,602.2	86.46	19.532	
15,000.0	10,900.0	13,440.1	9,341.0	77.3	74.3	22.60	-3,963.3	-266.8	1,688.7	1,600.5	88.20	19.146	
15,100.0	10,900.0	13,540.1	9,341.0	78.7	75.7	22.60	-4,063.3	-266.1	1,688.7	1,598.7	89.95	18.773	
15,200.0	10,900.0	13,640.1	9,341.0	80.1	77.2	22.60	-4,163.3	-265.3	1,688.7	1,597.0	91.71	18.413	
15,300.0	10,900.0	13,740.1	9,341.0	81.6	78.7	22.60	-4,263.3	-264.5	1,688.7	1,595.2	93.47	18.066	
15,400.0	10,900.0	13,840.1	9,341.0	83.0	80.2	22.60	-4,363.3	-263.7	1,688.7	1,593.4	95.24	17.730	
15,500.0	10,900.0	13,940.1	9,341.0	84.5	81.7	22.60	-4,463.3	-263.0	1,688.7	1,591.7	97.02	17.405	
15,600.0	10,900.0	14,040.1	9,341.0	86.0	83.2	22.60	-4,563.3	-262.2	1,688.7	1,589.9	98.80	17.092	
15,700.0	10,900.0	14,140.1	9,341.0	87.5	84.7	22.60	-4,663.3	-261.4	1,688.7	1,588.1	100.59	16.788	
15,800.0	10,900.0	14,240.1	9,341.0	88.9	86.2	22.60	-4,763.3	-260.7	1,688.7	1,586.3	102.38	16.494	
15,900.0	10,900.0	14,340.1	9,341.0	90.4	87.8	22.60	-4,863.3	-259.9	1,688.7	1,584.5	104.18	16.210	
16,000.0	10,900.0	14,440.1	9,341.0	91.9	89.3	22.60	-4,963.3	-259.1	1,688.7	1,582.7	105.98	15.934	
16,100.0	10,900.0	14,540.1	9,341.0	93.4	90.8	22.60	-5,063.3	-258.4	1,688.7	1,580.9	107.78	15.667	
16,200.0	10,900.0	14,640.1	9,341.0	94.9	92.3	22.60	-5,163.3	-257.6	1,688.7	1,579.1	109.59	15.409	
16,300.0	10,900.0	14,740.1	9,341.0	96.4	93.9	22.60	-5,263.3	-256.8	1,688.7	1,577.3	111.41	15.158	
16,400.0	10,900.0	14,840.1	9,341.0	98.0	95.4	22.60	-5,363.3	-256.1	1,688.7	1,575.5	113.22	14.914	
16,500.0	10,900.0	14,940.1	9,341.0	99.5	97.0	22.60	-5,463.3	-255.3	1,688.7	1,573.6	115.05	14.678	
16,600.0	10,900.0	15,040.1	9,341.0	101.0	98.5	22.60	-5,563.3	-254.5	1,688.7	1,571.8	116.87	14.449	
16,700.0	10,900.0	15,140.1	9,341.0	102.5	100.1	22.60	-5,663.3	-253.8	1,688.7	1,570.0	118.70	14.227	
16,800.0	10,900.0	15,240.1	9,341.0	104.1	101.6	22.60	-5,763.3	-253.0	1,688.7	1,568.2	120.53	14.011	
16,900.0	10,900.0	15,340.1	9,341.0	105.6	103.2	22.60	-5,863.3	-252.2	1,688.7	1,566.3	122.36	13.801	
17,000.0	10,900.0	15,440.1	9,341.0	107.1	104.7	22.60	-5,963.3	-251.5	1,688.7	1,564.5	124.20	13.597	
17,100.0	10,900.0	15,540.1	9,341.0	108.7	106.3	22.60	-6,063.3	-250.7	1,688.7	1,562.7	126.03	13.399	
17,200.0	10,900.0	15,640.1	9,341.0	110.2	107.9	22.60	-6,163.3	-249.9	1,688.7	1,560.8	127.87	13.206	
17,300.0	10,900.0	15,740.1	9,341.0	111.8	109.4	22.60	-6,263.3	-249.1	1,688.7	1,559.0	129.72	13.018	
17,400.0	10,900.0	15,840.1	9,341.0	113.3	111.0	22.60	-6,363.3	-248.4	1,688.7	1,557.1	131.56	12.835	
17,500.0	10,900.0	15,940.1	9,341.0	114.9	112.6	22.60	-6,463.3	-247.6	1,688.7	1,555.3	133.41	12.658	
17,600.0	10,900.0	16,040.1	9,341.0	116.4	114.2	22.60	-6,563.3	-246.8	1,688.7	1,553.4	135.26	12.484	
17,700.0	10,900.0	16,140.1	9,341.0	118.0	115.7	22.60	-6,663.3	-246.1	1,688.7	1,551.6	137.11	12.316	
17,800.0	10,900.0	16,240.1	9,341.0	119.5	117.3	22.60	-6,763.3	-245.3	1,688.7	1,549.7	138.97	12.152	
17,900.0	10,900.0	16,340.1	9,341.0	121.1	118.9	22.60	-6,863.3	-244.5	1,688.7	1,547.9	140.82	11.991	
18,000.0	10,900.0	16,440.1	9,341.0	122.7	120.5	22.60	-6,963.3	-243.8	1,688.7	1,546.0	142.68	11.835	
18,100.0	10,900.0	16,540.1	9,341.0	124.2	122.1	22.60	-7,063.3	-243.0	1,688.7	1,544.1	144.54	11.683	
18,200.0	10,900.0	16,640.1	9,341.0	125.8	123.7	22.60	-7,163.3	-242.2	1,688.7	1,542.3	146.40	11.534	
18,300.0	10,900.0	16,740.1	9,341.0	127.4	125.2	22.60	-7,263.3	-241.5	1,688.7	1,540.4	148.27	11.389	
18,400.0	10,900.0	16,840.1	9,341.0	129.0	126.8	22.60	-7,363.3	-240.7	1,688.7	1,538.5	150.13	11.248	
18,500.0	10,900.0	16,940.1	9,341.0	130.5	128.4	22.60	-7,463.3	-239.9	1,688.7	1,536.7	152.00	11.110	
18,600.0	10,900.0	17,040.1	9,341.0	132.1	130.0	22.60	-7,563.3	-239.2	1,688.7	1,534.8	153.86	10.975	
18,700.0	10,900.0	17,140.1	9,341.0	133.7	131.6	22.60	-7,663.3	-238.4	1,688.7	1,532.9	155.73	10.843	
18,800.0	10,900.0	17,240.1	9,341.0	135.3	133.2	22.60	-7,763.3	-237.6	1,688.7	1,531.1	157.60	10.715	
18,900.0	10,900.0	17,340.1	9,341.0	136.9	134.8	22.60	-7,863.3	-236.9	1,688.7	1,529.2	159.48	10.589	
19,000.0	10,900.0	17,440.1	9,341.0	138.4	136.4	22.60	-7,963.3	-236.1	1,688.7	1,527.3	161.35	10.466	
19,100.0	10,900.0	17,540.1	9,341.0	140.0	138.0	22.60	-8,063.3	-235.3	1,688.7	1,525.5	163.22	10.346	
19,200.0	10,900.0	17,640.1	9,341.0	141.6	139.6	22.60	-8,163.3	-234.6	1,688.7	1,523.6	165.10	10.228	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #112H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.0	10,900.0	17,740.1	9,341.0	143.2	141.2	22.60	-8,263.2	-233.8	1,688.7	1,521.7	166.97	10.113	
19,400.0	10,900.0	17,840.1	9,341.0	144.8	142.8	22.60	-8,363.2	-233.0	1,688.7	1,519.8	168.85	10.001	
19,500.0	10,900.0	17,940.1	9,341.0	146.4	144.4	22.60	-8,463.2	-232.2	1,688.7	1,517.9	170.73	9.891	
19,600.0	10,900.0	18,040.1	9,341.0	148.0	146.0	22.60	-8,563.2	-231.5	1,688.7	1,516.1	172.61	9.783	
19,700.0	10,900.0	18,140.1	9,341.0	149.6	147.6	22.60	-8,663.2	-230.7	1,688.7	1,514.2	174.49	9.678	
19,800.0	10,900.0	18,240.1	9,341.0	151.2	149.2	22.60	-8,763.1	-229.9	1,688.7	1,512.3	176.37	9.575	
19,900.0	10,900.0	18,340.1	9,341.0	152.8	150.8	22.60	-8,863.1	-229.2	1,688.7	1,510.4	178.25	9.473	
20,000.0	10,900.0	18,440.1	9,341.0	154.4	152.4	22.60	-8,963.1	-228.4	1,688.7	1,508.5	180.14	9.374	
20,100.0	10,900.0	18,540.1	9,341.0	156.0	154.0	22.60	-9,063.1	-227.6	1,688.7	1,506.7	182.02	9.277	
20,200.0	10,900.0	18,640.1	9,341.0	157.6	155.7	22.60	-9,163.1	-226.9	1,688.7	1,504.8	183.91	9.182	
20,300.0	10,900.0	18,740.1	9,341.0	159.2	157.3	22.60	-9,263.1	-226.1	1,688.7	1,502.9	185.79	9.089	
20,400.0	10,900.0	18,840.1	9,341.0	160.8	158.9	22.60	-9,363.1	-225.3	1,688.7	1,501.0	187.68	8.998	
20,500.0	10,900.0	18,940.1	9,341.0	162.4	160.5	22.60	-9,463.1	-224.6	1,688.7	1,499.1	189.57	8.908	
20,600.0	10,900.0	19,040.1	9,341.0	164.0	162.1	22.60	-9,563.1	-223.8	1,688.7	1,497.2	191.45	8.820	
20,700.0	10,900.0	19,140.1	9,341.0	165.6	163.7	22.60	-9,663.1	-223.0	1,688.7	1,495.3	193.34	8.734	
20,800.0	10,900.0	19,240.1	9,341.0	167.2	165.3	22.60	-9,763.1	-222.3	1,688.7	1,493.4	195.23	8.650	
20,900.0	10,900.0	19,340.1	9,341.0	168.8	166.9	22.60	-9,863.1	-221.5	1,688.7	1,491.5	197.12	8.567	
21,000.0	10,900.0	19,440.1	9,341.0	170.4	168.6	22.60	-9,963.1	-220.7	1,688.7	1,489.7	199.01	8.485	
21,100.0	10,900.0	19,540.1	9,341.0	172.0	170.2	22.60	-10,063.1	-220.0	1,688.7	1,487.8	200.90	8.405	
21,201.2	10,900.0	19,641.3	9,341.0	173.7	171.8	22.60	-10,164.3	-219.2	1,688.7	1,485.8	202.82	8.326	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #122H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	-90.37	-0.2	-30.0	30.0				
100.0	100.0	100.0	100.0	0.1	0.1	-90.37	-0.2	-30.0	30.0	29.7	0.26	116.904	
200.0	200.0	200.0	200.0	0.5	0.5	-90.37	-0.2	-30.0	30.0	29.0	0.97	30.787	
300.0	300.0	300.0	300.0	0.8	0.8	-90.37	-0.2	-30.0	30.0	28.3	1.69	17.728	
400.0	400.0	400.0	400.0	1.2	1.2	-90.37	-0.2	-30.0	30.0	27.6	2.41	12.448	
500.0	500.0	500.0	500.0	1.6	1.6	-90.37	-0.2	-30.0	30.0	26.8	3.12	9.591	
600.0	600.0	600.0	600.0	1.9	1.9	-90.37	-0.2	-30.0	30.0	26.1	3.84	7.801	
700.0	700.0	700.0	700.0	2.3	2.3	-90.37	-0.2	-30.0	30.0	25.4	4.56	6.574	
800.0	800.0	800.0	800.0	2.6	2.6	-90.37	-0.2	-30.0	30.0	24.7	5.27	5.680	
900.0	900.0	900.0	900.0	3.0	3.0	-90.37	-0.2	-30.0	30.0	24.0	5.99	5.001	
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	-90.37	-0.2	-30.0	30.0	23.3	6.71	4.466	
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	-90.37	-0.2	-30.0	30.0	22.5	7.43	4.035	
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	-90.37	-0.2	-30.0	30.0	21.8	8.14	3.680	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.37	-0.2	-30.0	30.0	21.1	8.86	3.382	
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	-90.37	-0.2	-30.0	30.0	20.4	9.58	3.129	
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	-90.37	-0.2	-30.0	30.0	19.7	10.29	2.911	
1,600.0	1,600.0	1,600.0	1,600.0	5.5	5.5	-90.37	-0.2	-30.0	30.0	19.0	11.01	2.721	
1,700.0	1,700.0	1,700.0	1,700.0	5.9	5.9	-90.37	-0.2	-30.0	30.0	18.2	11.73	2.555	
1,800.0	1,800.0	1,800.0	1,800.0	6.2	6.2	-90.37	-0.2	-30.0	30.0	17.5	12.44	2.408	
1,900.0	1,900.0	1,900.0	1,900.0	6.6	6.6	-90.37	-0.2	-30.0	30.0	16.8	13.16	2.277	
2,000.0	2,000.0	2,000.0	2,000.0	6.9	6.9	-90.37	-0.2	-30.0	30.0	16.1	13.88	2.159	
2,100.0	2,100.0	2,100.0	2,100.0	7.3	7.3	-90.37	-0.2	-30.0	30.0	15.4	14.60	2.053	
2,200.0	2,200.0	2,200.0	2,200.0	7.7	7.7	-90.37	-0.2	-30.0	30.0	14.7	15.31	1.957	
2,300.0	2,300.0	2,300.0	2,300.0	8.0	8.0	-90.37	-0.2	-30.0	30.0	13.9	16.03	1.869	
2,400.0	2,400.0	2,400.0	2,400.0	8.4	8.4	-90.37	-0.2	-30.0	30.0	13.2	16.75	1.789	
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	-90.37	-0.2	-30.0	30.0	12.5	17.46	1.716 CC, ES	
2,600.0	2,600.0	2,599.9	2,599.8	9.1	9.1	-125.16	0.6	-30.2	30.7	12.5	18.18	1.689 SF	
2,700.0	2,700.0	2,699.7	2,699.6	9.4	9.4	-124.49	3.1	-30.9	32.9	14.0	18.89	1.744	
2,800.0	2,799.9	2,799.4	2,799.3	9.8	9.8	-123.56	7.3	-32.1	36.6	17.1	19.60	1.870	
2,900.0	2,899.7	2,899.1	2,898.8	10.2	10.2	-122.53	13.2	-33.8	41.9	21.6	20.30	2.062	
3,000.0	2,999.4	2,998.6	2,998.0	10.5	10.5	-121.52	20.6	-36.0	48.6	27.6	21.01	2.312	
3,100.0	3,098.9	3,097.9	3,096.9	10.9	10.9	-120.60	29.8	-38.6	56.8	35.1	21.72	2.614	
3,200.0	3,198.3	3,197.1	3,195.4	11.2	11.2	-119.80	40.5	-41.7	66.5	44.1	22.43	2.964	
3,300.0	3,297.4	3,304.0	3,293.4	11.6	11.6	-119.11	52.9	-45.2	77.7	54.5	23.17	3.352	
3,400.0	3,396.4	3,404.7	3,391.7	12.0	12.0	-118.60	66.1	-49.0	89.6	65.7	23.90	3.750	
3,500.0	3,495.5	3,505.5	3,490.1	12.3	12.4	-118.22	79.4	-52.9	101.6	76.9	24.64	4.123	
3,600.0	3,594.5	3,606.2	3,588.4	12.7	12.7	-117.91	92.7	-56.7	113.6	88.2	25.38	4.474	
3,700.0	3,693.5	3,706.9	3,686.7	13.1	13.1	-117.66	106.0	-60.5	125.5	99.4	26.12	4.805	
3,800.0	3,792.5	3,807.6	3,785.0	13.5	13.5	-117.46	119.2	-64.3	137.5	110.6	26.87	5.116	
3,900.0	3,891.6	3,908.3	3,883.3	13.9	13.9	-117.29	132.5	-68.1	149.5	121.8	27.63	5.410	
4,000.0	3,990.6	4,009.1	3,981.6	14.2	14.3	-117.14	145.8	-72.0	161.4	133.0	28.39	5.687	
4,100.0	4,089.6	4,090.2	4,079.9	14.6	14.6	-117.02	159.1	-75.8	173.4	144.3	29.07	5.965	
4,200.0	4,188.6	4,189.5	4,178.3	15.0	15.0	-116.91	172.4	-79.6	185.4	155.6	29.83	6.215	
4,300.0	4,287.7	4,288.8	4,276.6	15.4	15.4	-116.81	185.6	-83.4	197.4	166.8	30.59	6.452	
4,400.0	4,386.7	4,388.1	4,374.9	15.8	15.8	-116.73	198.9	-87.2	209.3	178.0	31.35	6.676	
4,500.0	4,485.7	4,487.3	4,473.2	16.2	16.1	-116.65	212.2	-91.1	221.3	189.2	32.12	6.890	
4,600.0	4,584.8	4,586.6	4,571.5	16.6	16.5	-116.58	225.5	-94.9	233.3	200.4	32.89	7.094	
4,700.0	4,683.8	4,685.9	4,669.8	17.0	16.9	-116.52	238.8	-98.7	245.3	211.6	33.66	7.287	
4,800.0	4,782.8	4,785.2	4,768.1	17.4	17.3	-116.47	252.0	-102.5	257.2	222.8	34.43	7.472	
4,900.0	4,881.8	4,884.5	4,866.4	17.8	17.7	-116.41	265.3	-106.3	269.2	234.0	35.20	7.648	
5,000.0	4,980.9	4,983.7	4,964.8	18.2	18.1	-116.37	278.6	-110.2	281.2	245.2	35.98	7.816	
5,100.0	5,079.9	5,083.0	5,063.1	18.6	18.5	-116.33	291.9	-114.0	293.2	256.4	36.75	7.976	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #122H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.0	5,178.9	5,182.3	5,161.4	19.0	18.9	-116.29	305.1	-117.8	305.1	267.6	37.53	8.130	
5,300.0	5,277.9	5,282.5	5,260.7	19.4	19.3	-116.27	318.5	-121.6	317.1	278.8	38.32	8.274	
5,400.0	5,377.0	5,385.5	5,362.9	19.8	19.7	-116.57	330.2	-125.0	328.2	289.1	39.13	8.388	
5,500.0	5,476.0	5,488.5	5,465.5	20.2	20.1	-117.29	339.3	-127.6	338.3	298.4	39.93	8.472	
5,600.0	5,575.0	5,591.5	5,568.2	20.6	20.5	-118.39	345.7	-129.5	347.4	306.7	40.71	8.533	
5,700.0	5,674.0	5,694.3	5,670.9	21.0	20.8	-119.84	349.5	-130.6	355.6	314.1	41.47	8.574	
5,726.0	5,699.8	5,720.9	5,697.6	21.1	20.9	-120.27	350.0	-130.7	357.6	316.0	41.67	8.583	
5,800.0	5,773.2	5,803.5	5,773.2	21.4	21.2	-121.59	350.6	-130.9	362.8	320.5	42.24	8.589	
5,900.0	5,872.6	5,904.1	5,872.6	21.7	21.6	-123.07	350.6	-130.9	368.5	325.6	42.96	8.579	
6,000.0	5,972.3	6,004.4	5,972.3	22.1	21.9	-124.17	350.6	-130.9	373.0	329.3	43.67	8.542	
6,100.0	6,072.1	6,104.5	6,072.1	22.5	22.3	-124.90	350.6	-130.9	376.1	331.7	44.37	8.476	
6,200.0	6,172.1	6,204.6	6,172.1	22.8	22.6	-125.27	350.6	-130.9	377.8	332.7	45.07	8.381	
6,259.3	6,231.4	6,254.7	6,231.4	23.1	22.8	-90.30	350.6	-130.9	378.0	332.6	45.45	8.317	
6,300.0	6,272.1	6,304.6	6,272.1	23.2	22.9	-90.30	350.6	-130.9	378.0	332.3	45.77	8.260	
6,400.0	6,372.1	6,404.6	6,372.1	23.5	23.3	-90.30	350.6	-130.9	378.0	331.6	46.46	8.137	
6,500.0	6,472.1	6,504.6	6,472.1	23.9	23.6	-90.30	350.6	-130.9	378.0	330.9	47.15	8.018	
6,600.0	6,572.1	6,604.6	6,572.1	24.2	24.0	-90.30	350.6	-130.9	378.0	330.2	47.84	7.901	
6,700.0	6,672.1	6,704.6	6,672.1	24.6	24.3	-90.30	350.6	-130.9	378.0	329.5	48.54	7.788	
6,800.0	6,772.1	6,804.6	6,772.1	24.9	24.7	-90.30	350.6	-130.9	378.0	328.8	49.23	7.678	
6,900.0	6,872.1	6,904.6	6,872.1	25.2	25.0	-90.30	350.6	-130.9	378.0	328.1	49.93	7.571	
7,000.0	6,972.1	7,004.6	6,972.1	25.6	25.4	-90.30	350.6	-130.9	378.0	327.4	50.62	7.467	
7,100.0	7,072.1	7,104.6	7,072.1	25.9	25.7	-90.30	350.6	-130.9	378.0	326.7	51.32	7.366	
7,200.0	7,172.1	7,204.6	7,172.1	26.3	26.1	-90.30	350.6	-130.9	378.0	326.0	52.02	7.267	
7,300.0	7,272.1	7,304.6	7,272.1	26.6	26.4	-90.30	350.6	-130.9	378.0	325.3	52.72	7.171	
7,400.0	7,372.1	7,404.6	7,372.1	27.0	26.8	-90.30	350.6	-130.9	378.0	324.6	53.41	7.077	
7,500.0	7,472.1	7,504.6	7,472.1	27.3	27.1	-90.30	350.6	-130.9	378.0	323.9	54.11	6.986	
7,600.0	7,572.1	7,604.6	7,572.1	27.7	27.5	-90.30	350.6	-130.9	378.0	323.2	54.81	6.897	
7,700.0	7,672.1	7,704.6	7,672.1	28.0	27.8	-90.30	350.6	-130.9	378.0	322.5	55.51	6.810	
7,800.0	7,772.1	7,804.6	7,772.1	28.4	28.2	-90.30	350.6	-130.9	378.0	321.8	56.21	6.725	
7,900.0	7,872.1	7,904.6	7,872.1	28.7	28.5	-90.30	350.6	-130.9	378.0	321.1	56.91	6.642	
8,000.0	7,972.1	8,004.6	7,972.1	29.1	28.9	-90.30	350.6	-130.9	378.0	320.4	57.61	6.562	
8,100.0	8,072.1	8,104.6	8,072.1	29.4	29.2	-90.30	350.6	-130.9	378.0	319.7	58.31	6.483	
8,200.0	8,172.1	8,204.6	8,172.1	29.7	29.6	-90.30	350.6	-130.9	378.0	319.0	59.02	6.406	
8,300.0	8,272.1	8,304.6	8,272.1	30.1	29.9	-90.30	350.6	-130.9	378.0	318.3	59.72	6.330	
8,400.0	8,372.1	8,404.6	8,372.1	30.4	30.3	-90.30	350.6	-130.9	378.0	317.6	60.42	6.257	
8,500.0	8,472.1	8,504.6	8,472.1	30.8	30.6	-90.30	350.6	-130.9	378.0	316.9	61.12	6.185	
8,600.0	8,572.1	8,604.6	8,572.1	31.1	31.0	-90.30	350.6	-130.9	378.0	316.2	61.83	6.114	
8,700.0	8,672.1	8,704.6	8,672.1	31.5	31.3	-90.30	350.6	-130.9	378.0	315.5	62.53	6.046	
8,800.0	8,772.1	8,804.6	8,772.1	31.8	31.7	-90.30	350.6	-130.9	378.0	314.8	63.23	5.978	
8,900.0	8,872.1	8,904.6	8,872.1	32.2	32.0	-90.30	350.6	-130.9	378.0	314.1	63.94	5.912	
9,000.0	8,972.1	9,004.6	8,972.1	32.5	32.4	-90.30	350.6	-130.9	378.0	313.4	64.64	5.848	
9,100.0	9,072.1	9,104.6	9,072.1	32.9	32.7	-90.30	350.6	-130.9	378.0	312.7	65.35	5.785	
9,200.0	9,172.1	9,204.6	9,172.1	33.2	33.1	-90.30	350.6	-130.9	378.0	312.0	66.05	5.723	
9,300.0	9,272.1	9,304.6	9,272.1	33.6	33.5	-90.30	350.6	-130.9	378.0	311.3	66.76	5.663	
9,400.0	9,372.1	9,396.1	9,372.8	33.9	33.8	-90.31	350.5	-130.9	378.0	310.6	67.43	5.606	
9,500.0	9,472.1	9,508.1	9,483.9	34.3	34.1	-92.11	338.7	-128.6	376.2	308.1	68.09	5.525	
9,600.0	9,572.1	9,611.7	9,582.9	34.6	34.4	-96.70	309.1	-123.0	372.8	304.1	68.68	5.429	
9,667.3	9,639.4	9,674.2	9,639.4	34.9	34.5	-100.80	282.9	-118.0	371.7	302.7	69.02	5.385	
9,700.0	9,672.1	9,702.2	9,663.7	35.0	34.6	-102.94	269.3	-115.4	372.1	302.9	69.14	5.381	
9,800.0	9,772.1	9,778.2	9,725.9	35.3	34.7	-109.59	226.5	-107.2	378.9	309.9	69.03	5.490	
9,900.0	9,872.1	9,840.9	9,772.5	35.7	34.8	-115.76	185.3	-99.4	397.4	329.6	67.76	5.865	
10,000.0	9,972.1	9,892.4	9,807.2	36.0	34.9	-121.08	148.0	-92.2	429.2	364.0	65.21	6.582	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #122H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,100.0	10,072.1	9,934.7	9,833.1	36.4	35.0	-125.49	115.1	-86.0	473.8	412.0	61.76	7.672	
10,200.0	10,172.1	9,969.8	9,852.6	36.7	35.0	-129.09	86.4	-80.5	529.4	471.4	57.98	9.129	
10,300.0	10,272.1	10,000.0	9,867.9	37.1	35.1	-132.10	60.9	-75.6	593.8	539.4	54.37	10.920	
10,354.9	10,327.0	10,013.3	9,874.3	37.3	35.1	-133.40	49.4	-73.4	632.2	579.7	52.47	12.047	
10,400.0	10,372.0	10,024.8	9,879.5	37.4	35.1	50.04	39.4	-71.5	664.3	613.2	51.03	13.018	
10,450.0	10,421.6	10,038.4	9,885.4	37.6	35.1	45.38	27.4	-69.2	699.3	649.8	49.49	14.132	
10,500.0	10,470.5	10,050.0	9,890.3	37.7	35.1	41.42	17.0	-67.2	733.4	685.5	47.91	15.310	
10,550.0	10,518.3	10,067.8	9,897.3	37.9	35.2	37.68	1.0	-64.2	766.4	719.8	46.61	16.442	
10,600.0	10,564.7	10,083.4	9,903.0	38.0	35.2	34.61	-13.3	-61.5	797.9	752.7	45.27	17.624	
10,650.0	10,609.2	10,100.0	9,908.6	38.1	35.2	31.95	-28.7	-58.5	827.9	783.9	44.02	18.807	
10,700.0	10,651.6	10,116.0	9,913.6	38.2	35.3	29.72	-43.6	-55.7	856.1	813.3	42.80	20.002	
10,750.0	10,691.5	10,132.9	9,918.5	38.3	35.3	27.80	-59.5	-52.6	882.4	840.7	41.68	21.174	
10,800.0	10,728.6	10,150.0	9,922.9	38.3	35.3	26.18	-75.7	-49.5	906.7	866.1	40.63	22.318	
10,850.0	10,762.7	10,167.7	9,926.9	38.4	35.4	24.80	-92.7	-46.3	928.9	889.2	39.68	23.408	
10,900.0	10,793.5	10,185.5	9,930.4	38.4	35.4	23.64	-109.8	-43.1	948.9	910.0	38.84	24.432	
10,950.0	10,820.7	10,200.0	9,932.8	38.5	35.5	22.71	-123.9	-40.4	966.6	928.5	38.05	25.405	
11,000.0	10,844.2	10,221.6	9,935.8	38.5	35.5	21.86	-144.9	-36.4	981.8	944.4	37.50	26.185	
11,050.0	10,863.7	10,250.0	9,938.5	38.6	35.6	21.12	-172.6	-31.1	994.9	957.7	37.13	26.795	
11,100.0	10,879.1	10,250.0	9,938.5	38.7	35.6	20.74	-172.6	-31.1	1,005.3	968.6	36.65	27.430	
11,150.0	10,890.4	10,276.8	9,939.8	38.8	35.6	20.29	-198.9	-26.0	1,013.1	976.6	36.52	27.737	
11,200.0	10,897.3	10,302.3	9,940.0	38.9	35.7	19.98	-224.0	-21.3	1,018.4	981.9	36.51	27.897	
11,254.9	10,900.0	10,351.3	9,940.0	39.0	35.8	19.78	-272.2	-12.7	1,020.3	983.6	36.63	27.857	
11,300.0	10,900.0	10,391.5	9,940.0	39.2	36.0	19.72	-311.9	-6.3	1,019.9	983.1	36.77	27.735	
11,400.0	10,900.0	10,480.7	9,940.0	39.5	36.3	19.56	-400.3	5.9	1,018.9	981.7	37.15	27.424	
11,500.0	10,900.0	10,570.1	9,940.0	39.9	36.7	19.38	-489.1	15.4	1,017.8	980.2	37.59	27.072	
11,600.0	10,900.0	10,659.5	9,940.0	40.3	37.1	19.19	-578.3	22.1	1,016.5	978.4	38.09	26.687	
11,638.0	10,900.0	10,693.5	9,940.0	40.5	37.3	19.11	-612.3	24.0	1,016.0	977.8	38.29	26.535	
11,700.0	10,900.0	10,749.1	9,940.0	40.8	37.6	19.02	-667.8	26.1	1,015.4	976.8	38.67	26.262	
11,800.0	10,900.0	10,842.2	9,940.0	41.3	38.1	18.98	-760.9	27.4	1,015.2	975.8	39.41	25.762	
11,900.0	10,900.0	10,942.2	9,940.0	41.9	38.7	18.98	-860.9	28.2	1,015.2	975.0	40.25	25.221	
12,000.0	10,900.0	11,042.2	9,940.0	42.5	39.4	18.98	-960.9	28.9	1,015.2	974.0	41.16	24.664	
12,100.0	10,900.0	11,142.2	9,940.0	43.2	40.2	18.98	-1,060.9	29.7	1,015.2	973.1	42.13	24.097	
12,200.0	10,900.0	11,242.2	9,940.0	44.0	41.0	18.98	-1,160.9	30.5	1,015.2	972.0	43.16	23.525	
12,300.0	10,900.0	11,342.2	9,940.0	44.8	41.8	18.98	-1,260.9	31.3	1,015.2	971.0	44.23	22.952	
12,400.0	10,900.0	11,442.2	9,940.0	45.6	42.7	18.98	-1,360.9	32.0	1,015.2	969.8	45.36	22.383	
12,500.0	10,900.0	11,542.2	9,940.0	46.5	43.7	18.98	-1,460.9	32.8	1,015.2	968.7	46.53	21.820	
12,600.0	10,900.0	11,642.2	9,940.0	47.4	44.7	18.98	-1,560.9	33.6	1,015.2	967.5	47.74	21.266	
12,700.0	10,900.0	11,742.2	9,940.0	48.4	45.7	18.98	-1,660.9	34.3	1,015.2	966.2	48.99	20.724	
12,800.0	10,900.0	11,842.2	9,940.0	49.4	46.7	18.98	-1,760.9	35.1	1,015.2	964.9	50.27	20.194	
12,900.0	10,900.0	11,942.2	9,940.0	50.4	47.8	18.98	-1,860.9	35.9	1,015.2	963.6	51.59	19.678	
13,000.0	10,900.0	12,042.2	9,940.0	51.5	49.0	18.98	-1,960.9	36.6	1,015.2	962.3	52.94	19.177	
13,100.0	10,900.0	12,142.2	9,940.0	52.6	50.1	18.98	-2,060.9	37.4	1,015.2	960.9	54.32	18.691	
13,200.0	10,900.0	12,242.2	9,940.0	53.7	51.3	18.98	-2,160.9	38.2	1,015.2	959.5	55.72	18.220	
13,300.0	10,900.0	12,342.2	9,940.0	54.9	52.5	18.98	-2,260.9	39.0	1,015.2	958.1	57.15	17.765	
13,400.0	10,900.0	12,442.2	9,940.0	56.0	53.7	18.98	-2,360.9	39.7	1,015.2	956.6	58.59	17.326	
13,500.0	10,900.0	12,542.2	9,940.0	57.2	55.0	18.98	-2,460.9	40.5	1,015.2	955.1	60.06	16.902	
13,600.0	10,900.0	12,642.2	9,940.0	58.5	56.2	18.98	-2,560.9	41.3	1,015.2	953.6	61.55	16.493	
13,700.0	10,900.0	12,742.2	9,940.0	59.7	57.5	18.98	-2,660.9	42.0	1,015.2	952.1	63.06	16.098	
13,800.0	10,900.0	12,842.2	9,940.0	61.0	58.8	18.98	-2,760.9	42.8	1,015.2	950.6	64.59	15.719	
13,900.0	10,900.0	12,942.2	9,940.0	62.2	60.2	18.98	-2,860.9	43.6	1,015.2	949.1	66.13	15.353	
14,000.0	10,900.0	13,042.2	9,940.0	63.5	61.5	18.98	-2,960.9	44.3	1,015.2	947.5	67.68	15.000	
14,100.0	10,900.0	13,142.2	9,940.0	64.9	62.9	18.98	-3,060.9	45.1	1,015.2	945.9	69.25	14.660	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #122H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,200.0	10,900.0	13,242.2	9,940.0	66.2	64.2	18.98	-3,160.9	45.9	1,015.2	944.4	70.83	14.333	
14,300.0	10,900.0	13,342.2	9,940.0	67.5	65.6	18.98	-3,260.9	46.6	1,015.2	942.8	72.42	14.018	
14,400.0	10,900.0	13,442.2	9,940.0	68.9	67.0	18.98	-3,360.9	47.4	1,015.2	941.2	74.02	13.715	
14,500.0	10,900.0	13,542.2	9,940.0	70.3	68.4	18.98	-3,460.9	48.2	1,015.2	939.6	75.64	13.422	
14,600.0	10,900.0	13,642.2	9,940.0	71.6	69.8	18.98	-3,560.9	49.0	1,015.2	937.9	77.26	13.140	
14,700.0	10,900.0	13,742.2	9,940.0	73.0	71.3	18.98	-3,660.8	49.7	1,015.2	936.3	78.89	12.868	
14,800.0	10,900.0	13,842.2	9,940.0	74.4	72.7	18.98	-3,760.8	50.5	1,015.2	934.7	80.53	12.606	
14,900.0	10,900.0	13,942.2	9,940.0	75.8	74.1	18.98	-3,860.8	51.3	1,015.2	933.0	82.18	12.353	
15,000.0	10,900.0	14,042.2	9,940.0	77.3	75.6	18.98	-3,960.8	52.0	1,015.2	931.3	83.84	12.109	
15,100.0	10,900.0	14,142.2	9,940.0	78.7	77.0	18.98	-4,060.8	52.8	1,015.2	929.7	85.50	11.873	
15,200.0	10,900.0	14,242.2	9,940.0	80.1	78.5	18.98	-4,160.8	53.6	1,015.2	928.0	87.17	11.646	
15,300.0	10,900.0	14,342.2	9,940.0	81.6	80.0	18.98	-4,260.8	54.3	1,015.2	926.3	88.85	11.426	
15,400.0	10,900.0	14,442.2	9,940.0	83.0	81.5	18.98	-4,360.8	55.1	1,015.2	924.7	90.53	11.214	
15,500.0	10,900.0	14,542.2	9,940.0	84.5	83.0	18.98	-4,460.8	55.9	1,015.2	923.0	92.22	11.009	
15,600.0	10,900.0	14,642.2	9,940.0	86.0	84.5	18.98	-4,560.8	56.6	1,015.2	921.3	93.91	10.810	
15,700.0	10,900.0	14,742.2	9,940.0	87.5	86.0	18.98	-4,660.8	57.4	1,015.2	919.6	95.61	10.618	
15,800.0	10,900.0	14,842.2	9,940.0	88.9	87.5	18.98	-4,760.8	58.2	1,015.2	917.9	97.31	10.432	
15,900.0	10,900.0	14,942.2	9,940.0	90.4	89.0	18.98	-4,860.8	59.0	1,015.2	916.2	99.02	10.252	
16,000.0	10,900.0	15,042.2	9,940.0	91.9	90.5	18.98	-4,960.8	59.7	1,015.2	914.4	100.73	10.078	
16,100.0	10,900.0	15,142.2	9,940.0	93.4	92.0	18.98	-5,060.8	60.5	1,015.2	912.7	102.45	9.909	
16,200.0	10,900.0	15,242.2	9,940.0	94.9	93.5	18.98	-5,160.8	61.3	1,015.2	911.0	104.17	9.746	
16,300.0	10,900.0	15,342.2	9,940.0	96.4	95.1	18.98	-5,260.8	62.0	1,015.2	909.3	105.89	9.587	
16,400.0	10,900.0	15,442.2	9,940.0	98.0	96.6	18.98	-5,360.8	62.8	1,015.2	907.6	107.62	9.433	
16,500.0	10,900.0	15,542.2	9,940.0	99.5	98.1	18.98	-5,460.8	63.6	1,015.2	905.8	109.35	9.284	
16,600.0	10,900.0	15,642.2	9,940.0	101.0	99.7	18.98	-5,560.8	64.3	1,015.2	904.1	111.08	9.139	
16,700.0	10,900.0	15,742.2	9,940.0	102.5	101.2	18.98	-5,660.8	65.1	1,015.2	902.3	112.82	8.998	
16,800.0	10,900.0	15,842.2	9,940.0	104.1	102.8	18.98	-5,760.8	65.9	1,015.2	900.6	114.56	8.861	
16,900.0	10,900.0	15,942.2	9,940.0	105.6	104.3	18.98	-5,860.8	66.7	1,015.2	898.9	116.30	8.729	
17,000.0	10,900.0	16,042.2	9,940.0	107.1	105.9	18.98	-5,960.8	67.4	1,015.2	897.1	118.05	8.600	
17,100.0	10,900.0	16,142.2	9,940.0	108.7	107.4	18.98	-6,060.8	68.2	1,015.2	895.4	119.80	8.474	
17,200.0	10,900.0	16,242.2	9,940.0	110.2	109.0	18.98	-6,160.8	69.0	1,015.2	893.6	121.55	8.352	
17,300.0	10,900.0	16,342.2	9,940.0	111.8	110.5	18.98	-6,260.8	69.7	1,015.2	891.9	123.30	8.233	
17,400.0	10,900.0	16,442.2	9,940.0	113.3	112.1	18.98	-6,360.8	70.5	1,015.2	890.1	125.05	8.118	
17,500.0	10,900.0	16,542.2	9,940.0	114.9	113.7	18.98	-6,460.8	71.3	1,015.2	888.4	126.81	8.005	
17,600.0	10,900.0	16,642.2	9,940.0	116.4	115.2	18.97	-6,560.8	72.0	1,015.2	886.6	128.57	7.896	
17,700.0	10,900.0	16,742.2	9,940.0	118.0	116.8	18.97	-6,660.8	72.8	1,015.2	884.8	130.33	7.789	
17,800.0	10,900.0	16,842.2	9,940.0	119.5	118.4	18.97	-6,760.8	73.6	1,015.2	883.1	132.09	7.685	
17,900.0	10,900.0	16,942.2	9,940.0	121.1	119.9	18.97	-6,860.8	74.3	1,015.2	881.3	133.86	7.584	
18,000.0	10,900.0	17,042.2	9,940.0	122.7	121.5	18.97	-6,960.8	75.1	1,015.2	879.5	135.62	7.485	
18,100.0	10,900.0	17,142.2	9,940.0	124.2	123.1	18.97	-7,060.7	75.9	1,015.2	877.8	137.39	7.389	
18,200.0	10,900.0	17,242.2	9,940.0	125.8	124.7	18.97	-7,160.7	76.7	1,015.2	876.0	139.16	7.295	
18,300.0	10,900.0	17,342.2	9,940.0	127.4	126.3	18.97	-7,260.7	77.4	1,015.2	874.2	140.93	7.203	
18,400.0	10,900.0	17,442.2	9,940.0	129.0	127.8	18.97	-7,360.7	78.2	1,015.2	872.5	142.71	7.114	
18,500.0	10,900.0	17,542.2	9,940.0	130.5	129.4	18.97	-7,460.7	79.0	1,015.2	870.7	144.48	7.026	
18,600.0	10,900.0	17,642.2	9,940.0	132.1	131.0	18.97	-7,560.7	79.7	1,015.2	868.9	146.25	6.941	
18,700.0	10,900.0	17,742.2	9,940.0	133.7	132.6	18.97	-7,660.7	80.5	1,015.2	867.1	148.03	6.858	
18,800.0	10,900.0	17,842.2	9,940.0	135.3	134.2	18.97	-7,760.7	81.3	1,015.2	865.3	149.81	6.776	
18,900.0	10,900.0	17,942.2	9,940.0	136.9	135.8	18.97	-7,860.7	82.0	1,015.2	863.6	151.59	6.697	
19,000.0	10,900.0	18,042.2	9,940.0	138.4	137.4	18.97	-7,960.7	82.8	1,015.2	861.8	153.37	6.619	
19,100.0	10,900.0	18,142.2	9,940.0	140.0	139.0	18.97	-8,060.7	83.6	1,015.2	860.0	155.15	6.543	
19,200.0	10,900.0	18,242.2	9,940.0	141.6	140.6	18.97	-8,160.7	84.3	1,015.2	858.2	156.93	6.469	
19,300.0	10,900.0	18,342.2	9,940.0	143.2	142.2	18.97	-8,260.7	85.1	1,015.1	856.4	158.72	6.396	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #122H - Wellbore #1 - BLM Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,400.0	10,900.0	18,442.2	9,940.0	144.8	143.8	18.97	-8,360.7	85.9	1,015.1	854.6	160.50	6.325		
19,500.0	10,900.0	18,542.2	9,940.0	146.4	145.4	18.97	-8,460.7	86.7	1,015.1	852.9	162.29	6.255		
19,600.0	10,900.0	18,642.2	9,940.0	148.0	147.0	18.97	-8,560.7	87.4	1,015.1	851.1	164.08	6.187		
19,700.0	10,900.0	18,742.2	9,940.0	149.6	148.6	18.97	-8,660.7	88.2	1,015.1	849.3	165.86	6.120		
19,800.0	10,900.0	18,842.2	9,940.0	151.2	150.2	18.97	-8,760.7	89.0	1,015.1	847.5	167.65	6.055		
19,900.0	10,900.0	18,942.2	9,940.0	152.8	151.8	18.97	-8,860.7	89.7	1,015.1	845.7	169.44	5.991		
20,000.0	10,900.0	19,042.2	9,940.0	154.4	153.4	18.97	-8,960.7	90.5	1,015.1	843.9	171.23	5.928		
20,100.0	10,900.0	19,142.2	9,940.0	156.0	155.0	18.97	-9,060.7	91.3	1,015.1	842.1	173.02	5.867		
20,200.0	10,900.0	19,242.2	9,940.0	157.6	156.6	18.97	-9,160.7	92.0	1,015.1	840.3	174.82	5.807		
20,300.0	10,900.0	19,342.2	9,940.0	159.2	158.2	18.97	-9,260.7	92.8	1,015.1	838.5	176.61	5.748		
20,400.0	10,900.0	19,442.2	9,940.0	160.8	159.8	18.97	-9,360.7	93.6	1,015.1	836.7	178.40	5.690		
20,500.0	10,900.0	19,542.2	9,940.0	162.4	161.4	18.97	-9,460.7	94.4	1,015.1	834.9	180.20	5.633		
20,600.0	10,900.0	19,642.2	9,940.0	164.0	163.0	18.97	-9,560.7	95.1	1,015.1	833.1	181.99	5.578		
20,700.0	10,900.0	19,742.2	9,940.0	165.6	164.6	18.97	-9,660.7	95.9	1,015.1	831.3	183.79	5.523		
20,800.0	10,900.0	19,842.2	9,940.0	167.2	166.2	18.97	-9,760.7	96.7	1,015.1	829.6	185.59	5.470		
20,900.0	10,900.0	19,942.2	9,940.0	168.8	167.8	18.97	-9,860.7	97.4	1,015.1	827.8	187.38	5.417		
21,000.0	10,900.0	20,042.2	9,940.0	170.4	169.4	18.97	-9,960.7	98.2	1,015.1	826.0	189.18	5.366		
21,100.0	10,900.0	20,142.2	9,940.0	172.0	171.1	18.97	-10,060.7	99.0	1,015.1	824.2	190.98	5.315		
21,201.2	10,900.0	20,243.5	9,940.0	173.7	172.7	18.97	-10,161.9	99.7	1,015.1	822.3	192.80	5.265		

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #132H - Wellbore #1 - BLM Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-135.48	-30.3	-29.8	42.5					
100.0	100.0	100.0	100.0	0.1	0.1	-135.48	-30.3	-29.8	42.5	42.2	0.26	165.680		
200.0	200.0	200.0	200.0	0.5	0.5	-135.48	-30.3	-29.8	42.5	41.5	0.97	43.632		
300.0	300.0	300.0	300.0	0.8	0.8	-135.48	-30.3	-29.8	42.5	40.8	1.69	25.124		
400.0	400.0	400.0	400.0	1.2	1.2	-135.48	-30.3	-29.8	42.5	40.1	2.41	17.641		
500.0	500.0	500.0	500.0	1.6	1.6	-135.48	-30.3	-29.8	42.5	39.3	3.12	13.593		
600.0	600.0	600.0	600.0	1.9	1.9	-135.48	-30.3	-29.8	42.5	38.6	3.84	11.056		
700.0	700.0	700.0	700.0	2.3	2.3	-135.48	-30.3	-29.8	42.5	37.9	4.56	9.317		
800.0	800.0	800.0	800.0	2.6	2.6	-135.48	-30.3	-29.8	42.5	37.2	5.27	8.050		
900.0	900.0	900.0	900.0	3.0	3.0	-135.48	-30.3	-29.8	42.5	36.5	5.99	7.087		
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	-135.48	-30.3	-29.8	42.5	35.8	6.71	6.330		
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	-135.48	-30.3	-29.8	42.5	35.0	7.43	5.719		
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	-135.48	-30.3	-29.8	42.5	34.3	8.14	5.215		
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-135.48	-30.3	-29.8	42.5	33.6	8.86	4.793		
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	-135.48	-30.3	-29.8	42.5	32.9	9.58	4.434		
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	-135.48	-30.3	-29.8	42.5	32.2	10.29	4.125		
1,600.0	1,600.0	1,600.0	1,600.0	5.5	5.5	-135.48	-30.3	-29.8	42.5	31.5	11.01	3.857		
1,700.0	1,700.0	1,700.0	1,700.0	5.9	5.9	-135.48	-30.3	-29.8	42.5	30.7	11.73	3.621		
1,800.0	1,800.0	1,800.0	1,800.0	6.2	6.2	-135.48	-30.3	-29.8	42.5	30.0	12.44	3.412		
1,900.0	1,900.0	1,900.0	1,900.0	6.6	6.6	-135.48	-30.3	-29.8	42.5	29.3	13.16	3.227		
2,000.0	2,000.0	2,000.0	2,000.0	6.9	6.9	-135.48	-30.3	-29.8	42.5	28.6	13.88	3.060		
2,100.0	2,100.0	2,100.0	2,100.0	7.3	7.3	-135.48	-30.3	-29.8	42.5	27.9	14.60	2.910		
2,200.0	2,200.0	2,200.0	2,200.0	7.7	7.7	-135.48	-30.3	-29.8	42.5	27.2	15.31	2.773		
2,300.0	2,300.0	2,300.0	2,300.0	8.0	8.0	-135.48	-30.3	-29.8	42.5	26.4	16.03	2.649		
2,400.0	2,400.0	2,400.0	2,400.0	8.4	8.4	-135.48	-30.3	-29.8	42.5	25.7	16.75	2.536		
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	-135.48	-30.3	-29.8	42.5	25.0	17.46	2.432 CC, ES		
2,600.0	2,600.0	2,600.1	2,600.0	9.1	9.1	-169.55	-29.6	-30.3	43.3	25.1	18.18	2.380		
2,700.0	2,700.0	2,700.0	2,700.0	9.4	9.4	-166.86	-27.6	-32.0	45.7	26.8	18.89	2.419		
2,800.0	2,799.9	2,799.9	2,799.8	9.8	9.8	-162.99	-24.3	-34.9	49.9	30.4	19.59	2.549		
2,900.0	2,899.7	2,899.5	2,899.2	10.2	10.2	-158.57	-19.7	-38.8	56.2	35.9	20.30	2.769		
3,000.0	2,999.4	2,998.9	2,998.3	10.5	10.5	-154.19	-13.8	-43.9	64.6	43.6	21.01	3.077		
3,100.0	3,098.9	3,097.9	3,096.9	10.9	10.9	-150.19	-6.6	-50.0	75.3	53.6	21.71	3.468		
3,200.0	3,198.3	3,196.6	3,194.9	11.2	11.2	-146.71	1.9	-57.2	88.2	65.8	22.41	3.936		
3,300.0	3,297.4	3,305.3	3,292.2	11.6	11.6	-143.79	11.6	-65.5	103.4	80.2	23.15	4.466		
3,400.0	3,396.4	3,393.3	3,389.7	12.0	11.9	-141.51	22.0	-74.4	119.8	96.0	23.82	5.029		
3,500.0	3,495.5	3,508.2	3,487.3	12.3	12.4	-139.78	32.5	-83.3	136.3	111.7	24.60	5.543		
3,600.0	3,594.5	3,609.6	3,584.9	12.7	12.8	-138.42	42.9	-92.2	153.0	127.6	25.33	6.040		
3,700.0	3,693.5	3,688.9	3,682.5	13.1	13.1	-137.33	53.3	-101.1	169.7	143.7	25.98	6.531		
3,800.0	3,792.5	3,787.4	3,780.1	13.5	13.4	-136.44	63.8	-110.0	186.4	159.7	26.71	6.980		
3,900.0	3,891.6	3,886.0	3,877.7	13.9	13.8	-135.69	74.2	-118.9	203.2	175.8	27.44	7.406		
4,000.0	3,990.6	3,984.5	3,975.3	14.2	14.2	-135.06	84.7	-127.8	220.0	191.9	28.18	7.809		
4,100.0	4,089.6	4,083.1	4,072.9	14.6	14.6	-134.52	95.1	-136.7	236.9	208.0	28.91	8.192		
4,200.0	4,188.6	4,181.6	4,170.5	15.0	14.9	-134.05	105.5	-145.6	253.7	224.1	29.66	8.556		
4,300.0	4,287.7	4,280.2	4,268.1	15.4	15.3	-133.64	116.0	-154.4	270.6	240.2	30.40	8.902		
4,400.0	4,386.7	4,378.7	4,365.6	15.8	15.7	-133.27	126.4	-163.3	287.5	256.3	31.15	9.231		
4,500.0	4,485.7	4,477.3	4,463.2	16.2	16.1	-132.95	136.8	-172.2	304.4	272.5	31.89	9.544		
4,600.0	4,584.8	4,575.8	4,560.8	16.6	16.5	-132.66	147.3	-181.1	321.3	288.6	32.64	9.842		
4,700.0	4,683.8	4,674.4	4,658.4	17.0	16.9	-132.40	157.7	-190.0	338.2	304.8	33.40	10.127		
4,800.0	4,782.8	4,772.9	4,756.0	17.4	17.3	-132.17	168.2	-198.9	355.1	321.0	34.15	10.399		
4,900.0	4,881.8	4,871.5	4,853.6	17.8	17.7	-131.95	178.6	-207.8	372.0	337.1	34.91	10.659		
5,000.0	4,980.9	4,970.0	4,951.2	18.2	18.1	-131.76	189.0	-216.7	389.0	353.3	35.66	10.907		
5,100.0	5,079.9	5,068.6	5,048.8	18.6	18.4	-131.58	199.5	-225.6	405.9	369.5	36.42	11.145		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #132H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.0	5,178.9	5,167.1	5,146.4	19.0	18.8	-131.41	209.9	-234.5	422.8	385.7	37.18	11.373	
5,300.0	5,277.9	5,265.7	5,244.0	19.4	19.2	-131.26	220.3	-243.4	439.8	401.8	37.94	11.591	
5,400.0	5,377.0	5,364.2	5,341.5	19.8	19.6	-131.12	230.8	-252.3	456.7	418.0	38.70	11.800	
5,500.0	5,476.0	5,462.8	5,439.1	20.2	20.0	-130.99	241.2	-261.2	473.7	434.2	39.47	12.001	
5,600.0	5,575.0	5,561.3	5,536.7	20.6	20.4	-130.87	251.7	-270.1	490.6	450.4	40.23	12.195	
5,700.0	5,674.0	5,659.9	5,634.3	21.0	20.8	-130.75	262.1	-279.0	507.5	466.5	41.00	12.380	
5,726.0	5,699.8	5,685.5	5,659.7	21.1	20.9	-130.73	264.8	-281.3	511.9	470.8	41.19	12.428	
5,800.0	5,773.2	5,758.5	5,732.0	21.4	21.2	-130.73	272.5	-287.9	524.0	482.3	41.76	12.549	
5,900.0	5,872.6	5,857.3	5,829.8	21.7	21.6	-130.53	283.0	-296.8	538.9	496.4	42.52	12.675	
6,000.0	5,972.3	5,956.3	5,927.9	22.1	22.0	-130.13	293.5	-305.8	552.1	508.9	43.27	12.760	
6,100.0	6,072.1	6,055.4	6,026.0	22.5	22.4	-129.54	304.0	-314.7	563.7	519.7	44.01	12.808	
6,200.0	6,172.1	6,154.5	6,124.1	22.8	22.8	-128.75	314.5	-323.7	573.8	529.1	44.75	12.823	
6,259.3	6,231.4	6,214.6	6,183.6	23.1	23.1	-93.15	320.8	-329.1	579.1	533.9	45.19	12.813	
6,300.0	6,272.1	6,259.1	6,227.7	23.2	23.2	-92.70	325.2	-332.8	582.3	536.8	45.53	12.790	
6,400.0	6,372.1	6,368.9	6,336.9	23.5	23.7	-91.77	334.4	-340.6	589.1	542.8	46.34	12.713	
6,500.0	6,472.1	6,479.4	6,447.0	23.9	24.1	-91.10	341.2	-346.4	594.2	547.1	47.13	12.608	
6,600.0	6,572.1	6,590.3	6,557.8	24.2	24.5	-90.67	345.5	-350.1	597.5	549.6	47.90	12.475	
6,700.0	6,672.1	6,701.4	6,668.9	24.6	24.9	-90.49	347.5	-351.8	599.0	550.3	48.64	12.314	
6,800.0	6,772.1	6,804.6	6,772.1	24.9	25.2	-90.48	347.6	-351.9	599.1	549.7	49.34	12.141	
6,900.0	6,872.1	6,904.6	6,872.1	25.2	25.6	-90.48	347.6	-351.9	599.1	549.0	50.03	11.973	
7,000.0	6,972.1	7,004.6	6,972.1	25.6	25.9	-90.48	347.6	-351.9	599.1	548.3	50.73	11.810	
7,100.0	7,072.1	7,104.6	7,072.1	25.9	26.3	-90.48	347.6	-351.9	599.1	547.6	51.42	11.651	
7,200.0	7,172.1	7,204.6	7,172.1	26.3	26.6	-90.48	347.6	-351.9	599.1	546.9	52.11	11.496	
7,300.0	7,272.1	7,304.6	7,272.1	26.6	26.9	-90.48	347.6	-351.9	599.1	546.3	52.80	11.345	
7,400.0	7,372.1	7,404.6	7,372.1	27.0	27.3	-90.48	347.6	-351.9	599.1	545.6	53.50	11.198	
7,500.0	7,472.1	7,504.6	7,472.1	27.3	27.6	-90.48	347.6	-351.9	599.1	544.9	54.19	11.054	
7,600.0	7,572.1	7,604.6	7,572.1	27.7	28.0	-90.48	347.6	-351.9	599.1	544.2	54.89	10.914	
7,700.0	7,672.1	7,704.6	7,672.1	28.0	28.3	-90.48	347.6	-351.9	599.1	543.5	55.59	10.777	
7,800.0	7,772.1	7,804.6	7,772.1	28.4	28.6	-90.48	347.6	-351.9	599.1	542.8	56.28	10.644	
7,900.0	7,872.1	7,904.6	7,872.1	28.7	29.0	-90.48	347.6	-351.9	599.1	542.1	56.98	10.514	
8,000.0	7,972.1	8,004.6	7,972.1	29.1	29.3	-90.48	347.6	-351.9	599.1	541.4	57.68	10.387	
8,100.0	8,072.1	8,104.6	8,072.1	29.4	29.7	-90.48	347.6	-351.9	599.1	540.7	58.37	10.262	
8,200.0	8,172.1	8,204.6	8,172.1	29.7	30.0	-90.48	347.6	-351.9	599.1	540.0	59.07	10.141	
8,300.0	8,272.1	8,304.6	8,272.1	30.1	30.4	-90.48	347.6	-351.9	599.1	539.3	59.77	10.022	
8,400.0	8,372.1	8,404.6	8,372.1	30.4	30.7	-90.48	347.6	-351.9	599.1	538.6	60.47	9.907	
8,500.0	8,472.1	8,504.6	8,472.1	30.8	31.1	-90.48	347.6	-351.9	599.1	537.9	61.17	9.793	
8,600.0	8,572.1	8,604.6	8,572.1	31.1	31.4	-90.48	347.6	-351.9	599.1	537.2	61.87	9.682	
8,700.0	8,672.1	8,704.6	8,672.1	31.5	31.8	-90.48	347.6	-351.9	599.1	536.5	62.57	9.574	
8,800.0	8,772.1	8,804.6	8,772.1	31.8	32.1	-90.48	347.6	-351.9	599.1	535.8	63.27	9.468	
8,900.0	8,872.1	8,904.6	8,872.1	32.2	32.4	-90.48	347.6	-351.9	599.1	535.1	63.97	9.364	
9,000.0	8,972.1	9,004.6	8,972.1	32.5	32.8	-90.48	347.6	-351.9	599.1	534.4	64.67	9.263	
9,100.0	9,072.1	9,104.6	9,072.1	32.9	33.1	-90.48	347.6	-351.9	599.1	533.7	65.38	9.163	
9,200.0	9,172.1	9,204.6	9,172.1	33.2	33.5	-90.48	347.6	-351.9	599.1	533.0	66.08	9.066	
9,300.0	9,272.1	9,304.6	9,272.1	33.6	33.8	-90.48	347.6	-351.9	599.1	532.3	66.78	8.970	
9,400.0	9,372.1	9,404.6	9,372.1	33.9	34.2	-90.48	347.6	-351.9	599.1	531.6	67.48	8.877	
9,500.0	9,472.1	9,504.6	9,472.1	34.3	34.5	-90.48	347.6	-351.9	599.1	530.9	68.19	8.785	
9,600.0	9,572.1	9,604.6	9,572.1	34.6	34.9	-90.48	347.6	-351.9	599.1	530.2	68.89	8.696	
9,700.0	9,672.1	9,704.6	9,672.1	35.0	35.2	-90.48	347.6	-351.9	599.1	529.5	69.59	8.608	
9,800.0	9,772.1	9,804.6	9,772.1	35.3	35.6	-90.48	347.6	-351.9	599.1	528.8	70.30	8.522	
9,900.0	9,872.1	9,904.6	9,872.1	35.7	35.9	-90.48	347.6	-351.9	599.1	528.1	71.00	8.437	
10,000.0	9,972.1	10,004.6	9,972.1	36.0	36.3	-90.48	347.6	-351.9	599.1	527.3	71.71	8.354	
10,100.0	10,072.1	10,104.6	10,072.1	36.4	36.6	-90.48	347.6	-351.9	599.1	526.6	72.41	8.273	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #132H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,200.0	10,172.1	10,204.6	10,172.1	36.7	37.0	-90.48	347.6	-351.9	599.1	525.9	73.12	8.193	
10,300.0	10,272.1	10,304.6	10,272.1	37.1	37.3	-90.48	347.6	-351.9	599.1	525.2	73.82	8.115	
10,354.9	10,327.0	10,359.8	10,327.3	37.3	37.5	-90.48	347.5	-351.9	599.1	524.8	74.21	8.073	
10,358.6	10,330.6	10,363.7	10,331.1	37.3	37.5	97.62	347.5	-351.9	599.1	524.8	74.23	8.070	
10,400.0	10,372.0	10,407.5	10,374.9	37.4	37.7	97.55	345.1	-351.7	599.2	524.7	74.51	8.042	
10,450.0	10,421.6	10,460.3	10,427.2	37.6	37.8	97.42	337.8	-351.3	599.6	524.8	74.80	8.016	
10,500.0	10,470.5	10,513.0	10,478.5	37.7	38.0	97.23	325.8	-350.6	600.4	525.3	75.08	7.997	
10,550.0	10,518.3	10,565.6	10,528.3	37.9	38.1	96.98	309.2	-349.5	601.5	526.2	75.33	7.985	
10,600.0	10,564.7	10,618.0	10,576.3	38.0	38.2	96.68	288.1	-348.2	602.9	527.4	75.56	7.980	
10,650.0	10,609.2	10,670.3	10,622.0	38.1	38.3	96.32	262.9	-346.7	604.7	528.9	75.77	7.981	
10,700.0	10,651.6	10,722.3	10,665.0	38.2	38.4	95.92	233.7	-344.9	606.7	530.8	75.96	7.987	
10,750.0	10,691.5	10,774.2	10,705.1	38.3	38.4	95.47	200.9	-342.9	609.1	532.9	76.15	7.999	
10,800.0	10,728.6	10,825.8	10,741.9	38.3	38.5	94.98	164.8	-340.7	611.7	535.4	76.32	8.015	
10,850.0	10,762.7	10,877.1	10,775.1	38.4	38.6	94.45	125.7	-338.3	614.5	538.0	76.49	8.035	
10,900.0	10,793.5	10,928.3	10,804.5	38.4	38.6	93.89	84.0	-335.8	617.6	541.0	76.65	8.058	
10,950.0	10,820.7	10,979.1	10,830.0	38.5	38.6	93.31	40.1	-333.1	620.9	544.1	76.82	8.084	
11,000.0	10,844.2	11,029.7	10,851.4	38.5	38.6	92.70	-5.7	-330.3	624.4	547.5	76.98	8.111	
11,050.0	10,863.7	11,080.1	10,868.6	38.6	38.7	92.08	-52.9	-327.4	628.1	551.0	77.16	8.141	
11,100.0	10,879.1	11,130.2	10,881.5	38.7	38.7	91.45	-101.2	-324.4	631.9	554.6	77.33	8.171	
11,150.0	10,890.4	11,180.1	10,890.1	38.8	38.8	90.82	-150.2	-321.4	635.8	558.3	77.52	8.202	
11,200.0	10,897.3	11,229.7	10,894.4	38.9	38.9	90.18	-199.6	-318.4	639.8	562.1	77.71	8.233	
11,254.9	10,900.0	11,278.8	10,895.0	39.0	39.0	89.55	-248.6	-315.5	644.3	566.4	77.92	8.269	
11,300.0	10,900.0	11,315.5	10,895.0	39.2	39.0	89.56	-285.2	-313.8	648.2	570.1	78.10	8.300	
11,400.0	10,900.0	11,396.6	10,895.0	39.5	39.3	89.56	-366.3	-311.7	656.5	577.9	78.58	8.354	
11,500.0	10,900.0	11,506.1	10,895.0	39.9	39.6	89.57	-463.6	-311.0	663.0	583.7	79.27	8.364	
11,600.0	10,900.0	11,606.1	10,895.0	40.3	40.0	89.57	-563.5	-310.2	666.1	586.0	80.07	8.319	
11,638.0	10,900.0	11,631.8	10,895.0	40.5	40.1	89.57	-601.5	-309.9	666.3	586.0	80.35	8.292	
11,700.0	10,900.0	11,706.1	10,895.0	40.8	40.5	89.57	-663.5	-309.4	666.3	585.3	80.99	8.227	
11,800.0	10,900.0	11,806.1	10,895.0	41.3	41.0	89.57	-763.5	-308.7	666.3	584.3	82.03	8.123	
11,900.0	10,900.0	11,906.1	10,895.0	41.9	41.6	89.57	-863.5	-307.9	666.3	583.1	83.19	8.009	
12,000.0	10,900.0	12,006.1	10,895.0	42.5	42.2	89.57	-963.5	-307.1	666.3	581.9	84.47	7.888	
12,100.0	10,900.0	12,106.1	10,895.0	43.2	42.9	89.57	-1,063.5	-306.4	666.3	580.5	85.85	7.761	
12,200.0	10,900.0	12,206.1	10,895.0	44.0	43.7	89.57	-1,163.5	-305.6	666.3	579.0	87.34	7.629	
12,300.0	10,900.0	12,293.9	10,895.0	44.8	44.4	89.57	-1,263.5	-304.8	666.3	577.5	88.82	7.502	
12,400.0	10,900.0	12,406.1	10,895.0	45.6	45.3	89.57	-1,363.5	-304.0	666.3	575.7	90.60	7.355	
12,500.0	10,900.0	12,506.1	10,895.0	46.5	46.2	89.57	-1,463.5	-303.3	666.3	573.9	92.36	7.214	
12,600.0	10,900.0	12,606.1	10,895.0	47.4	47.1	89.57	-1,563.5	-302.5	666.3	572.1	94.21	7.073	
12,700.0	10,900.0	12,706.1	10,895.0	48.4	48.0	89.57	-1,663.5	-301.7	666.3	570.2	96.13	6.931	
12,800.0	10,900.0	12,806.1	10,895.0	49.4	49.0	89.57	-1,763.5	-301.0	666.3	568.2	98.13	6.790	
12,900.0	10,900.0	12,906.1	10,895.0	50.4	50.1	89.57	-1,863.5	-300.2	666.3	566.1	100.19	6.650	
13,000.0	10,900.0	13,006.1	10,895.0	51.5	51.1	89.57	-1,963.5	-299.4	666.3	564.0	102.33	6.511	
13,100.0	10,900.0	13,106.1	10,895.0	52.6	52.2	89.57	-2,063.5	-298.6	666.3	561.8	104.52	6.375	
13,200.0	10,900.0	13,206.1	10,895.0	53.7	53.3	89.57	-2,163.5	-297.9	666.3	559.5	106.77	6.240	
13,300.0	10,900.0	13,306.1	10,895.0	54.9	54.5	89.57	-2,263.5	-297.1	666.3	557.2	109.07	6.109	
13,400.0	10,900.0	13,406.1	10,895.0	56.0	55.7	89.57	-2,363.5	-296.3	666.3	554.8	111.42	5.980	
13,500.0	10,900.0	13,506.1	10,895.0	57.2	56.9	89.57	-2,463.5	-295.6	666.3	552.4	113.82	5.853	
13,600.0	10,900.0	13,606.1	10,895.0	58.5	58.1	89.57	-2,563.5	-294.8	666.3	550.0	116.27	5.730	
13,700.0	10,900.0	13,706.1	10,895.0	59.7	59.3	89.57	-2,663.5	-294.0	666.3	547.5	118.76	5.610	
13,800.0	10,900.0	13,806.1	10,895.0	61.0	60.6	89.57	-2,763.5	-293.2	666.2	545.0	121.28	5.493	
13,900.0	10,900.0	13,906.1	10,895.0	62.2	61.8	89.57	-2,863.5	-292.5	666.2	542.4	123.84	5.380	
14,000.0	10,900.0	14,006.1	10,895.0	63.5	63.1	89.57	-2,963.5	-291.7	666.2	539.8	126.44	5.269	
14,100.0	10,900.0	14,106.1	10,895.0	64.9	64.5	89.57	-3,063.5	-290.9	666.2	537.2	129.07	5.162	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #132H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.0	10,900.0	14,206.1	10,895.0	66.2	65.8	89.57	-3,163.5	-290.2	666.2	534.5	131.72	5.058	
14,300.0	10,900.0	14,306.1	10,895.0	67.5	67.1	89.57	-3,263.5	-289.4	666.2	531.8	134.41	4.957	
14,400.0	10,900.0	14,406.1	10,895.0	68.9	68.5	89.57	-3,363.4	-288.6	666.2	529.1	137.12	4.859	
14,500.0	10,900.0	14,506.1	10,895.0	70.3	69.8	89.57	-3,463.4	-287.9	666.2	526.4	139.86	4.763	
14,600.0	10,900.0	14,606.1	10,895.0	71.6	71.2	89.57	-3,563.4	-287.1	666.2	523.6	142.63	4.671	
14,700.0	10,900.0	14,706.1	10,895.0	73.0	72.6	89.57	-3,663.4	-286.3	666.2	520.8	145.41	4.582	
14,800.0	10,900.0	14,806.1	10,895.0	74.4	74.0	89.57	-3,763.4	-285.5	666.2	518.0	148.22	4.495	
14,900.0	10,900.0	14,906.1	10,895.0	75.8	75.4	89.57	-3,863.4	-284.8	666.2	515.2	151.04	4.411	
15,000.0	10,900.0	15,006.1	10,895.0	77.3	76.8	89.57	-3,963.4	-284.0	666.2	512.3	153.89	4.329	
15,100.0	10,900.0	15,106.1	10,895.0	78.7	78.3	89.57	-4,063.4	-283.2	666.2	509.4	156.75	4.250	
15,200.0	10,900.0	15,206.1	10,895.0	80.1	79.7	89.57	-4,163.4	-282.5	666.2	506.6	159.63	4.173	
15,300.0	10,900.0	15,306.1	10,895.0	81.6	81.1	89.57	-4,263.4	-281.7	666.2	503.7	162.53	4.099	
15,400.0	10,900.0	15,406.1	10,895.0	83.0	82.6	89.57	-4,363.4	-280.9	666.2	500.7	165.44	4.027	
15,500.0	10,900.0	15,506.1	10,895.0	84.5	84.1	89.57	-4,463.4	-280.1	666.2	497.8	168.37	3.957	
15,600.0	10,900.0	15,606.1	10,895.0	86.0	85.5	89.57	-4,563.4	-279.4	666.2	494.9	171.31	3.889	
15,700.0	10,900.0	15,706.1	10,895.0	87.5	87.0	89.57	-4,663.4	-278.6	666.2	491.9	174.26	3.823	
15,800.0	10,900.0	15,793.9	10,895.0	88.9	88.3	89.57	-4,763.4	-277.8	666.2	489.1	177.04	3.763	
15,900.0	10,900.0	15,906.1	10,895.0	90.4	90.0	89.57	-4,863.4	-277.1	666.2	486.0	180.20	3.697	
16,000.0	10,900.0	16,006.1	10,895.0	91.9	91.4	89.57	-4,963.4	-276.3	666.2	483.0	183.19	3.636	
16,100.0	10,900.0	16,106.1	10,895.0	93.4	92.9	89.57	-5,063.4	-275.5	666.2	480.0	186.19	3.578	
16,200.0	10,900.0	16,206.1	10,895.0	94.9	94.4	89.57	-5,163.4	-274.7	666.2	477.0	189.20	3.521	
16,300.0	10,900.0	16,306.1	10,895.0	96.4	95.9	89.57	-5,263.4	-274.0	666.2	473.9	192.21	3.466	
16,400.0	10,900.0	16,406.1	10,895.0	98.0	97.5	89.57	-5,363.4	-273.2	666.1	470.9	195.24	3.412	
16,500.0	10,900.0	16,506.1	10,895.0	99.5	99.0	89.57	-5,463.4	-272.4	666.1	467.9	198.28	3.360	
16,600.0	10,900.0	16,606.1	10,895.0	101.0	100.5	89.57	-5,563.4	-271.7	666.1	464.8	201.32	3.309	
16,700.0	10,900.0	16,706.1	10,895.0	102.5	102.0	89.57	-5,663.4	-270.9	666.1	461.8	204.37	3.259	
16,800.0	10,900.0	16,806.1	10,895.0	104.1	103.5	89.57	-5,763.4	-270.1	666.1	458.7	207.43	3.211	
16,900.0	10,900.0	16,906.1	10,895.0	105.6	105.1	89.57	-5,863.4	-269.3	666.1	455.6	210.50	3.165	
17,000.0	10,900.0	17,006.1	10,895.0	107.1	106.6	89.57	-5,963.4	-268.6	666.1	452.6	213.57	3.119	
17,100.0	10,900.0	17,106.1	10,895.0	108.7	108.1	89.57	-6,063.4	-267.8	666.1	449.5	216.66	3.075	
17,200.0	10,900.0	17,206.1	10,895.0	110.2	109.7	89.57	-6,163.4	-267.0	666.1	446.4	219.74	3.031	
17,300.0	10,900.0	17,306.1	10,895.0	111.8	111.2	89.57	-6,263.4	-266.3	666.1	443.3	222.84	2.989	
17,400.0	10,900.0	17,406.1	10,895.0	113.3	112.8	89.57	-6,363.4	-265.5	666.1	440.2	225.94	2.948	
17,500.0	10,900.0	17,506.1	10,895.0	114.9	114.3	89.57	-6,463.4	-264.7	666.1	437.1	229.04	2.908	
17,600.0	10,900.0	17,606.1	10,895.0	116.4	115.9	89.57	-6,563.4	-264.0	666.1	434.0	232.15	2.869	
17,700.0	10,900.0	17,706.1	10,895.0	118.0	117.4	89.57	-6,663.4	-263.2	666.1	430.8	235.27	2.831	
17,800.0	10,900.0	17,806.1	10,895.0	119.5	119.0	89.57	-6,763.3	-262.4	666.1	427.7	238.39	2.794	
17,900.0	10,900.0	17,893.9	10,895.0	121.1	120.4	89.57	-6,863.3	-261.6	666.1	424.8	241.32	2.760	
18,000.0	10,900.0	18,006.1	10,895.0	122.7	122.1	89.57	-6,963.3	-260.9	666.1	421.4	244.64	2.723	
18,100.0	10,900.0	18,106.1	10,895.0	124.2	123.7	89.57	-7,063.3	-260.1	666.1	418.3	247.78	2.688	
18,200.0	10,900.0	18,206.1	10,895.0	125.8	125.2	89.57	-7,163.3	-259.3	666.1	415.2	250.92	2.655	
18,300.0	10,900.0	18,306.1	10,895.0	127.4	126.8	89.57	-7,263.3	-258.6	666.1	412.0	254.06	2.622	
18,400.0	10,900.0	18,406.1	10,895.0	129.0	128.4	89.57	-7,363.3	-257.8	666.1	408.9	257.21	2.590	
18,500.0	10,900.0	18,506.1	10,895.0	130.5	130.0	89.57	-7,463.3	-257.0	666.1	405.7	260.36	2.558	
18,600.0	10,900.0	18,606.1	10,895.0	132.1	131.5	89.57	-7,563.3	-256.2	666.1	402.6	263.51	2.528	
18,700.0	10,900.0	18,706.1	10,895.0	133.7	133.1	89.57	-7,663.3	-255.5	666.1	399.4	266.67	2.498	
18,800.0	10,900.0	18,806.1	10,895.0	135.3	134.7	89.57	-7,763.3	-254.7	666.1	396.2	269.83	2.468	
18,900.0	10,900.0	18,906.1	10,895.0	136.9	136.3	89.57	-7,863.3	-253.9	666.1	393.1	273.00	2.440	
19,000.0	10,900.0	19,006.1	10,895.0	138.4	137.8	89.57	-7,963.3	-253.2	666.0	389.9	276.16	2.412	
19,100.0	10,900.0	19,106.1	10,895.0	140.0	139.4	89.57	-8,063.3	-252.4	666.0	386.7	279.33	2.384	
19,200.0	10,900.0	19,206.1	10,895.0	141.6	141.0	89.57	-8,163.3	-251.6	666.0	383.5	282.51	2.358	
19,300.0	10,900.0	19,306.1	10,895.0	143.2	142.6	89.57	-8,263.3	-250.8	666.0	380.4	285.69	2.331	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #132H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.0	10,900.0	19,406.1	10,895.0	144.8	144.2	89.57	-8,363.3	-250.1	666.0	377.2	288.86	2.306	
19,500.0	10,900.0	19,506.1	10,895.0	146.4	145.8	89.57	-8,463.3	-249.3	666.0	374.0	292.05	2.281	
19,600.0	10,900.0	19,606.1	10,895.0	148.0	147.4	89.57	-8,563.3	-248.5	666.0	370.8	295.23	2.256	
19,700.0	10,900.0	19,706.1	10,895.0	149.6	149.0	89.57	-8,663.3	-247.8	666.0	367.6	298.42	2.232	
19,800.0	10,900.0	19,806.1	10,895.0	151.2	150.5	89.57	-8,763.3	-247.0	666.0	364.4	301.61	2.208	
19,900.0	10,900.0	19,906.1	10,895.0	152.8	152.1	89.57	-8,863.3	-246.2	666.0	361.2	304.80	2.185	
20,000.0	10,900.0	20,006.1	10,895.0	154.4	153.7	89.57	-8,963.3	-245.4	666.0	358.0	308.00	2.162	
20,100.0	10,900.0	20,106.1	10,895.0	156.0	155.3	89.57	-9,063.3	-244.7	666.0	354.8	311.19	2.140	
20,200.0	10,900.0	20,206.1	10,895.0	157.6	156.9	89.57	-9,163.3	-243.9	666.0	351.6	314.39	2.118	
20,300.0	10,900.0	20,306.1	10,895.0	159.2	158.5	89.57	-9,263.3	-243.1	666.0	348.4	317.59	2.097	
20,400.0	10,900.0	20,406.1	10,895.0	160.8	160.1	89.57	-9,363.3	-242.4	666.0	345.2	320.80	2.076	
20,500.0	10,900.0	20,506.1	10,895.0	162.4	161.7	89.57	-9,463.3	-241.6	666.0	342.0	324.00	2.056	
20,600.0	10,900.0	20,606.1	10,895.0	164.0	163.3	89.57	-9,563.3	-240.8	666.0	338.8	327.21	2.035	
20,700.0	10,900.0	20,706.1	10,895.0	165.6	164.9	89.57	-9,663.3	-240.1	666.0	335.6	330.42	2.016	
20,800.0	10,900.0	20,806.1	10,895.0	167.2	166.5	89.57	-9,763.3	-239.3	666.0	332.4	333.63	1.996	
20,900.0	10,900.0	20,906.1	10,895.0	168.8	168.1	89.57	-9,863.3	-238.5	666.0	329.1	336.84	1.977	
21,000.0	10,900.0	21,006.1	10,895.0	170.4	169.7	89.57	-9,963.3	-237.7	666.0	325.9	340.06	1.958	
21,100.0	10,900.0	21,106.1	10,895.0	172.0	171.3	89.57	-10,063.3	-237.0	666.0	322.7	343.27	1.940	
21,201.2	10,900.0	21,195.1	10,895.0	173.7	172.8	89.57	-10,164.5	-236.2	666.0	319.6	346.33	1.923 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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #242H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	89.61	1.0	140.0	140.0				
100.0	100.0	100.0	100.0	0.1	0.1	89.61	1.0	140.0	140.0	139.8	0.26	546.317	
200.0	200.0	200.0	200.0	0.5	0.5	89.61	1.0	140.0	140.0	139.1	0.97	143.874	
300.0	300.0	300.0	300.0	0.8	0.8	89.61	1.0	140.0	140.0	138.3	1.69	82.846	
400.0	400.0	400.0	400.0	1.2	1.2	89.61	1.0	140.0	140.0	137.6	2.41	58.171	
500.0	500.0	500.0	500.0	1.6	1.6	89.61	1.0	140.0	140.0	136.9	3.12	44.821	
600.0	600.0	600.0	600.0	1.9	1.9	89.61	1.0	140.0	140.0	136.2	3.84	36.455	
700.0	700.0	700.0	700.0	2.3	2.3	89.61	1.0	140.0	140.0	135.5	4.56	30.721	
800.0	800.0	800.0	800.0	2.6	2.6	89.61	1.0	140.0	140.0	134.8	5.27	26.545	
900.0	900.0	900.0	900.0	3.0	3.0	89.61	1.0	140.0	140.0	134.0	5.99	23.369	
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	89.61	1.0	140.0	140.0	133.3	6.71	20.872	
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	89.61	1.0	140.0	140.0	132.6	7.43	18.857	
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	89.61	1.0	140.0	140.0	131.9	8.14	17.196	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	89.61	1.0	140.0	140.0	131.2	8.86	15.805	
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	89.61	1.0	140.0	140.0	130.4	9.58	14.622	
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	89.61	1.0	140.0	140.0	129.7	10.29	13.603	
1,600.0	1,600.0	1,600.6	1,600.6	5.5	5.5	89.25	1.8	139.8	139.8	128.8	11.01	12.696	
1,700.0	1,700.0	1,701.2	1,701.1	5.9	5.9	88.19	4.4	139.1	139.2	127.5	11.73	11.866	
1,800.0	1,800.0	1,801.6	1,801.4	6.2	6.2	86.40	8.7	138.0	138.3	125.8	12.45	11.108	
1,900.0	1,900.0	1,901.8	1,901.5	6.6	6.6	83.88	14.6	136.4	137.2	124.0	13.16	10.421	
2,000.0	2,000.0	2,001.8	2,001.1	6.9	6.9	80.59	22.3	134.4	136.2	122.3	13.88	9.811	
2,100.0	2,100.0	2,101.5	2,100.4	7.3	7.3	76.55	31.5	131.9	135.6	121.0	14.60	9.286	
2,131.6	2,131.6	2,132.9	2,131.6	7.4	7.4	75.12	34.8	131.0	135.6	120.7	14.83	9.140 CC	
2,200.0	2,200.0	2,200.8	2,199.0	7.7	7.7	71.79	42.4	129.0	135.8	120.5	15.33	8.861 ES	
2,300.0	2,300.0	2,299.7	2,297.1	8.0	8.0	66.39	54.9	125.7	137.2	121.1	16.05	8.548	
2,400.0	2,400.0	2,401.3	2,395.1	8.4	8.4	60.80	68.3	122.1	140.0	123.2	16.79	8.341	
2,500.0	2,500.0	2,502.3	2,493.2	8.7	8.8	55.48	81.6	118.6	144.1	126.6	17.52	8.226	
2,600.0	2,600.0	2,603.2	2,591.3	9.1	9.2	15.53	94.9	115.1	148.6	130.3	18.25	8.142	
2,700.0	2,700.0	2,703.9	2,689.6	9.4	9.6	11.05	108.2	111.5	152.3	133.4	18.97	8.030	
2,800.0	2,799.9	2,804.6	2,788.0	9.8	10.0	6.88	121.6	108.0	155.3	135.6	19.70	7.884	
2,900.0	2,899.7	2,905.2	2,886.4	10.2	10.4	2.92	135.0	104.4	157.3	136.9	20.42	7.702	
3,000.0	2,999.4	2,994.2	2,984.8	10.5	10.7	-0.93	148.4	100.9	158.3	137.2	21.09	7.502	
3,100.0	3,098.9	3,106.4	3,083.3	10.9	11.2	-4.77	161.7	97.3	158.2	136.4	21.86	7.239	
3,200.0	3,198.3	3,207.0	3,181.7	11.2	11.6	-8.69	175.1	93.8	157.2	134.6	22.57	6.963	
3,300.0	3,297.4	3,292.4	3,280.1	11.6	11.9	-12.78	188.5	90.2	155.2	131.9	23.23	6.681	
3,400.0	3,396.4	3,408.3	3,378.5	12.0	12.4	-17.05	201.8	86.7	153.2	129.2	23.99	6.383	
3,500.0	3,495.5	3,509.0	3,476.8	12.3	12.8	-21.40	215.2	83.1	152.0	127.3	24.70	6.154	
3,576.1	3,570.9	3,566.6	3,551.7	12.6	13.0	-24.74	225.3	80.4	151.8	126.6	25.17	6.029	
3,600.0	3,594.5	3,609.7	3,575.1	12.7	13.2	-25.79	228.5	79.6	151.8	126.4	25.41	5.973	
3,700.0	3,693.5	3,689.6	3,673.5	13.1	13.5	-30.17	241.9	76.0	152.4	126.4	26.05	5.852	
3,800.0	3,792.5	3,788.9	3,771.8	13.5	13.9	-34.49	255.2	72.5	154.0	127.2	26.77	5.754	
3,900.0	3,891.6	3,888.2	3,870.2	13.9	14.3	-38.69	268.6	68.9	156.4	128.9	27.49	5.691	
4,000.0	3,990.6	3,987.5	3,968.5	14.2	14.7	-42.75	282.0	65.4	159.7	131.5	28.22	5.659	
4,100.0	4,089.6	4,086.9	4,066.9	14.6	15.1	-46.64	295.3	61.8	163.7	134.8	28.96	5.653	
4,200.0	4,188.6	4,186.2	4,165.2	15.0	15.5	-50.32	308.7	58.3	168.5	138.8	29.71	5.671	
4,300.0	4,287.7	4,288.1	4,266.2	15.4	15.9	-53.89	322.0	54.7	173.5	142.9	30.51	5.685	
4,400.0	4,386.7	4,392.3	4,369.7	15.8	16.3	-57.42	333.1	51.8	176.6	145.3	31.34	5.637	
4,500.0	4,485.7	4,496.4	4,473.5	16.2	16.7	-61.00	341.5	49.5	177.8	145.6	32.15	5.529	
4,600.0	4,584.8	4,600.5	4,577.5	16.6	17.1	-64.74	347.2	48.0	176.9	143.9	32.95	5.368	
4,700.0	4,683.8	4,704.3	4,681.2	17.0	17.5	-68.80	350.1	47.3	174.2	140.4	33.73	5.163	
4,800.0	4,782.8	4,805.9	4,782.8	17.4	17.8	-73.20	350.5	47.1	170.0	135.5	34.51	4.926	
4,900.0	4,881.8	4,905.0	4,881.8	17.8	18.1	-77.75	350.5	47.1	166.5	131.2	35.31	4.715	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #242H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.0	4,980.9	5,004.0	4,980.9	18.2	18.5	-82.46	350.5	47.1	164.1	127.9	36.11	4.543	
5,100.0	5,079.9	5,103.0	5,079.9	18.6	18.8	-87.27	350.5	47.1	162.8	125.9	36.91	4.411	
5,156.2	5,135.6	5,158.7	5,135.6	18.8	19.0	-90.00	350.5	47.1	162.6	125.3	37.36	4.353	
5,200.0	5,178.9	5,202.0	5,178.9	19.0	19.1	-92.12	350.5	47.1	162.7	125.0	37.70	4.316	
5,300.0	5,277.9	5,301.1	5,277.9	19.4	19.5	-96.95	350.5	47.1	163.8	125.3	38.49	4.256	
5,400.0	5,377.0	5,400.1	5,377.0	19.8	19.8	-101.67	350.5	47.1	166.1	126.8	39.27	4.230	
5,500.0	5,476.0	5,500.9	5,476.0	20.2	20.2	-106.24	350.5	47.1	169.5	129.5	40.03	4.234	
5,600.0	5,575.0	5,601.9	5,575.0	20.6	20.5	-110.61	350.5	47.1	173.9	133.2	40.79	4.264	
5,700.0	5,674.0	5,702.8	5,674.0	21.0	20.9	-114.74	350.5	47.1	179.4	137.8	41.53	4.319	
5,726.0	5,699.8	5,722.9	5,699.8	21.1	20.9	-115.77	350.5	47.1	180.9	139.2	41.70	4.338	
5,800.0	5,773.2	5,803.7	5,773.2	21.4	21.2	-118.49	350.5	47.1	185.3	143.1	42.26	4.385	
5,900.0	5,872.6	5,904.3	5,872.6	21.7	21.6	-121.37	350.5	47.1	190.7	147.7	42.98	4.437	
6,000.0	5,972.3	6,004.6	5,972.3	22.1	21.9	-123.45	350.5	47.1	195.0	151.3	43.68	4.465	
6,100.0	6,072.1	6,104.8	6,072.1	22.5	22.3	-124.81	350.5	47.1	198.1	153.7	44.38	4.464	
6,200.0	6,172.1	6,204.8	6,172.1	22.8	22.6	-125.50	350.5	47.1	199.7	154.7	45.08	4.431	
6,259.3	6,231.4	6,254.5	6,231.4	23.1	22.8	-90.58	350.5	47.1	200.0	154.6	45.45	4.401	
6,300.0	6,272.1	6,304.8	6,272.1	23.2	22.9	-90.58	350.5	47.1	200.0	154.2	45.77	4.370	
6,400.0	6,372.1	6,404.8	6,372.1	23.5	23.3	-90.58	350.5	47.1	200.0	153.6	46.46	4.305	
6,500.0	6,472.1	6,504.8	6,472.1	23.9	23.6	-90.58	350.5	47.1	200.0	152.9	47.15	4.242	
6,600.0	6,572.1	6,604.8	6,572.1	24.2	24.0	-90.58	350.5	47.1	200.0	152.2	47.85	4.180	
6,700.0	6,672.1	6,704.8	6,672.1	24.6	24.3	-90.58	350.5	47.1	200.0	151.5	48.54	4.121	
6,800.0	6,772.1	6,804.8	6,772.1	24.9	24.7	-90.58	350.5	47.1	200.0	150.8	49.24	4.062	
6,900.0	6,872.1	6,904.8	6,872.1	25.2	25.0	-90.58	350.5	47.1	200.0	150.1	49.93	4.006	
7,000.0	6,972.1	7,004.8	6,972.1	25.6	25.4	-90.58	350.5	47.1	200.0	149.4	50.63	3.951	
7,100.0	7,072.1	7,104.8	7,072.1	25.9	25.7	-90.58	350.5	47.1	200.0	148.7	51.32	3.897	
7,200.0	7,172.1	7,204.8	7,172.1	26.3	26.1	-90.58	350.5	47.1	200.0	148.0	52.02	3.845	
7,300.0	7,272.1	7,304.8	7,272.1	26.6	26.4	-90.58	350.5	47.1	200.0	147.3	52.72	3.794	
7,400.0	7,372.1	7,404.8	7,372.1	27.0	26.8	-90.58	350.5	47.1	200.0	146.6	53.42	3.744	
7,500.0	7,472.1	7,504.8	7,472.1	27.3	27.1	-90.58	350.5	47.1	200.0	145.9	54.12	3.696	
7,600.0	7,572.1	7,604.8	7,572.1	27.7	27.5	-90.58	350.5	47.1	200.0	145.2	54.82	3.649	
7,700.0	7,672.1	7,704.8	7,672.1	28.0	27.8	-90.58	350.5	47.1	200.0	144.5	55.51	3.603	
7,800.0	7,772.1	7,804.8	7,772.1	28.4	28.2	-90.58	350.5	47.1	200.0	143.8	56.21	3.558	
7,900.0	7,872.1	7,904.8	7,872.1	28.7	28.5	-90.58	350.5	47.1	200.0	143.1	56.92	3.514	
8,000.0	7,972.1	8,004.8	7,972.1	29.1	28.9	-90.58	350.5	47.1	200.0	142.4	57.62	3.472	
8,100.0	8,072.1	8,104.8	8,072.1	29.4	29.2	-90.58	350.5	47.1	200.0	141.7	58.32	3.430	
8,200.0	8,172.1	8,204.8	8,172.1	29.7	29.6	-90.58	350.5	47.1	200.0	141.0	59.02	3.389	
8,300.0	8,272.1	8,304.8	8,272.1	30.1	29.9	-90.58	350.5	47.1	200.0	140.3	59.72	3.349	
8,400.0	8,372.1	8,404.8	8,372.1	30.4	30.3	-90.58	350.5	47.1	200.0	139.6	60.42	3.310	
8,500.0	8,472.1	8,504.8	8,472.1	30.8	30.6	-90.58	350.5	47.1	200.0	138.9	61.13	3.272	
8,600.0	8,572.1	8,604.8	8,572.1	31.1	31.0	-90.58	350.5	47.1	200.0	138.2	61.83	3.235	
8,700.0	8,672.1	8,704.8	8,672.1	31.5	31.3	-90.58	350.5	47.1	200.0	137.5	62.53	3.199	
8,800.0	8,772.1	8,804.8	8,772.1	31.8	31.7	-90.58	350.5	47.1	200.0	136.8	63.24	3.163	
8,900.0	8,872.1	8,904.8	8,872.1	32.2	32.0	-90.58	350.5	47.1	200.0	136.1	63.94	3.128	
9,000.0	8,972.1	9,004.8	8,972.1	32.5	32.4	-90.58	350.5	47.1	200.0	135.4	64.65	3.094	
9,100.0	9,072.1	9,104.8	9,072.1	32.9	32.7	-90.58	350.5	47.1	200.0	134.7	65.35	3.061	
9,200.0	9,172.1	9,204.8	9,172.1	33.2	33.1	-90.58	350.5	47.1	200.0	134.0	66.05	3.028	
9,300.0	9,272.1	9,304.8	9,272.1	33.6	33.5	-90.58	350.5	47.1	200.0	133.3	66.76	2.996	
9,400.0	9,372.1	9,404.8	9,372.1	33.9	33.8	-90.58	350.5	47.1	200.0	132.6	67.46	2.965	
9,500.0	9,472.1	9,504.8	9,472.1	34.3	34.2	-90.58	350.5	47.1	200.0	131.8	68.17	2.934	
9,600.0	9,572.1	9,604.8	9,572.1	34.6	34.5	-90.58	350.5	47.1	200.0	131.1	68.88	2.904	
9,700.0	9,672.1	9,704.8	9,672.1	35.0	34.9	-90.58	350.5	47.1	200.0	130.4	69.58	2.875	
9,800.0	9,772.1	9,804.8	9,772.1	35.3	35.2	-90.58	350.5	47.1	200.0	129.7	70.29	2.846	

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #242H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,900.0	9,872.1	9,904.8	9,872.1	35.7	35.6	-90.58	350.5	47.1	200.0	129.0	71.00	2.817	
10,000.0	9,972.1	10,004.8	9,972.1	36.0	35.9	-90.58	350.5	47.1	200.0	128.3	71.70	2.790	
10,100.0	10,072.1	10,104.8	10,072.1	36.4	36.3	-90.58	350.5	47.1	200.0	127.6	72.41	2.762	
10,200.0	10,172.1	10,204.8	10,172.1	36.7	36.6	-90.58	350.5	47.1	200.0	126.9	73.12	2.736	
10,300.0	10,272.1	10,304.8	10,272.1	37.1	37.0	-90.58	350.5	47.1	200.0	126.2	73.82	2.709	
10,354.9	10,327.0	10,350.1	10,327.0	37.3	37.1	-90.58	350.5	47.1	200.0	125.8	74.18	2.696	
10,400.0	10,372.0	10,404.9	10,372.0	37.4	37.3	98.00	350.5	47.1	200.3	125.7	74.52	2.687 SF	
10,450.0	10,421.6	10,444.7	10,421.6	37.6	37.5	99.61	350.5	47.1	201.2	126.4	74.82	2.689	
10,500.0	10,470.5	10,506.4	10,470.5	37.7	37.7	102.24	350.5	47.1	203.2	128.0	75.19	2.703	
10,550.0	10,518.3	10,541.4	10,518.3	37.9	37.8	105.68	350.5	47.1	206.9	131.5	75.45	2.742	
10,600.0	10,564.7	10,587.8	10,564.7	38.0	38.0	109.64	350.5	47.1	213.0	137.3	75.74	2.812	
10,650.0	10,609.2	10,632.3	10,609.2	38.1	38.1	113.80	350.5	47.1	222.3	146.3	76.01	2.925	
10,700.0	10,651.6	10,674.7	10,651.6	38.2	38.3	117.82	350.5	47.1	235.5	159.2	76.25	3.088	
10,750.0	10,691.5	10,714.6	10,691.5	38.3	38.4	121.43	350.5	47.1	253.0	176.5	76.46	3.308	
10,800.0	10,728.6	10,751.8	10,728.6	38.3	38.6	124.42	350.5	47.1	275.0	198.3	76.65	3.588	
10,850.0	10,762.7	10,785.8	10,762.7	38.4	38.7	126.64	350.5	47.1	301.5	224.7	76.81	3.925	
10,900.0	10,793.5	10,816.6	10,793.5	38.4	38.8	127.96	350.5	47.1	332.2	255.2	76.95	4.316	
10,950.0	10,820.7	10,843.8	10,820.7	38.5	38.9	128.28	350.5	47.1	366.6	289.6	77.07	4.757	
11,000.0	10,844.2	10,867.3	10,844.2	38.5	39.0	127.42	350.5	47.1	404.5	327.3	77.16	5.242	
11,050.0	10,863.7	10,886.8	10,863.7	38.6	39.0	125.13	350.5	47.1	445.1	367.9	77.24	5.763	
11,100.0	10,879.1	10,902.3	10,879.1	38.7	39.1	121.00	350.5	47.1	488.2	410.9	77.29	6.316	
11,150.0	10,890.4	10,913.5	10,890.4	38.8	39.1	114.44	350.5	47.1	533.0	455.7	77.33	6.893	
11,200.0	10,897.3	10,920.4	10,897.3	38.9	39.2	104.72	350.5	47.1	579.3	501.9	77.34	7.490	
11,254.9	10,900.0	10,923.1	10,900.0	39.0	39.2	90.00	350.5	47.1	631.1	553.8	77.34	8.160	
11,300.0	10,900.0	10,923.1	10,900.0	39.2	39.2	90.00	350.5	47.1	673.9	596.6	77.33	8.715	
11,400.0	10,900.0	10,923.1	10,900.0	39.5	39.2	90.00	350.5	47.1	769.2	691.9	77.31	9.949	
11,500.0	10,900.0	10,923.1	10,900.0	39.9	39.2	90.00	350.5	47.1	864.5	787.3	77.30	11.185	
11,600.0	10,900.0	10,923.1	10,900.0	40.3	39.2	90.00	350.5	47.1	959.9	882.6	77.29	12.420	
11,638.0	10,900.0	10,923.1	10,900.0	40.5	39.2	90.00	350.5	47.1	996.1	918.8	77.29	12.889	
11,700.0	10,900.0	10,923.1	10,900.0	40.8	39.2	90.00	350.5	47.1	1,055.4	978.1	77.28	13.656	
11,800.0	10,900.0	10,923.1	10,900.0	41.3	39.2	90.00	350.5	47.1	1,151.6	1,074.3	77.29	14.900	
11,900.0	10,900.0	10,923.1	10,900.0	41.9	39.2	90.00	350.5	47.1	1,248.3	1,171.1	77.29	16.152	
12,000.0	10,900.0	10,923.1	10,900.0	42.5	39.2	90.00	350.5	47.1	1,345.6	1,268.3	77.30	17.408	
12,100.0	10,900.0	10,923.1	10,900.0	43.2	39.2	90.00	350.5	47.1	1,443.2	1,365.9	77.31	18.669	
12,200.0	10,900.0	10,923.1	10,900.0	44.0	39.2	90.00	350.5	47.1	1,541.1	1,463.8	77.32	19.933	
12,300.0	10,900.0	10,923.1	10,900.0	44.8	39.2	90.00	350.5	47.1	1,639.3	1,562.0	77.33	21.199	
12,400.0	10,900.0	10,923.1	10,900.0	45.6	39.2	90.00	350.5	47.1	1,737.7	1,660.4	77.34	22.467	
12,500.0	10,900.0	10,923.1	10,900.0	46.5	39.2	90.00	350.5	47.1	1,836.3	1,758.9	77.36	23.737	
12,600.0	10,900.0	10,923.1	10,900.0	47.4	39.2	90.00	350.5	47.1	1,935.0	1,857.6	77.38	25.007	
12,700.0	10,900.0	10,923.1	10,900.0	48.4	39.2	90.00	350.5	47.1	2,033.8	1,956.4	77.40	26.278	
12,800.0	10,900.0	10,923.1	10,900.0	49.4	39.2	90.00	350.5	47.1	2,132.8	2,055.3	77.41	27.550	
12,900.0	10,900.0	10,923.1	10,900.0	50.4	39.2	90.00	350.5	47.1	2,231.8	2,154.4	77.44	28.821	
13,000.0	10,900.0	10,923.1	10,900.0	51.5	39.2	90.00	350.5	47.1	2,330.9	2,253.5	77.46	30.093	
13,100.0	10,900.0	10,923.1	10,900.0	52.6	39.2	90.00	350.5	47.1	2,430.1	2,352.6	77.48	31.364	
13,200.0	10,900.0	10,923.1	10,900.0	53.7	39.2	90.00	350.5	47.1	2,529.4	2,451.9	77.50	32.635	
13,300.0	10,900.0	10,923.1	10,900.0	54.9	39.2	90.00	350.5	47.1	2,628.7	2,551.1	77.53	33.906	
13,400.0	10,900.0	10,923.1	10,900.0	56.0	39.2	90.00	350.5	47.1	2,728.0	2,650.5	77.56	35.175	
13,500.0	10,900.0	10,923.1	10,900.0	57.2	39.2	90.00	350.5	47.1	2,827.4	2,749.9	77.58	36.444	
13,600.0	10,900.0	16,421.1	13,732.0	58.5	65.2	173.33	-2,560.9	40.4	2,851.3	2,789.4	61.85	46.103	
13,700.0	10,900.0	16,521.1	13,732.0	59.7	66.3	173.33	-2,660.9	41.2	2,851.3	2,788.2	63.05	45.222	
13,800.0	10,900.0	16,621.1	13,732.0	61.0	67.4	173.33	-2,760.9	41.9	2,851.3	2,787.0	64.27	44.363	
13,900.0	10,900.0	16,721.1	13,732.0	62.2	68.6	173.33	-2,860.9	42.7	2,851.3	2,785.8	65.51	43.524	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #242H - Wellbore #1 - BLM Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,000.0	10,900.0	16,821.1	13,732.0	63.5	69.7	173.33	-2,960.9	43.5	2,851.3	2,784.5	66.76	42.707	
14,100.0	10,900.0	16,921.1	13,732.0	64.9	70.9	173.33	-3,060.9	44.3	2,851.3	2,783.2	68.03	41.912	
14,200.0	10,900.0	17,021.1	13,732.0	66.2	72.1	173.33	-3,160.9	45.1	2,851.3	2,782.0	69.31	41.137	
14,300.0	10,900.0	17,121.1	13,732.0	67.5	73.4	173.33	-3,260.9	45.9	2,851.3	2,780.7	70.61	40.383	
14,400.0	10,900.0	17,221.1	13,732.0	68.9	74.6	173.33	-3,360.9	46.6	2,851.3	2,779.4	71.91	39.650	
14,500.0	10,900.0	17,321.1	13,732.0	70.3	75.9	173.34	-3,460.9	47.4	2,851.3	2,778.0	73.23	38.936	
14,600.0	10,900.0	17,421.1	13,732.0	71.6	77.1	173.34	-3,560.9	48.2	2,851.3	2,776.7	74.56	38.242	
14,700.0	10,900.0	17,521.1	13,732.0	73.0	78.4	173.34	-3,660.9	49.0	2,851.3	2,775.4	75.90	37.567	
14,800.0	10,900.0	17,621.1	13,732.0	74.4	79.7	173.34	-3,760.9	49.8	2,851.3	2,774.0	77.25	36.911	
14,900.0	10,900.0	17,721.1	13,732.0	75.8	81.0	173.34	-3,860.9	50.5	2,851.3	2,772.7	78.60	36.273	
15,000.0	10,900.0	17,821.1	13,732.0	77.3	82.4	173.34	-3,960.9	51.3	2,851.3	2,771.3	79.97	35.653	
15,100.0	10,900.0	17,921.1	13,732.0	78.7	83.7	173.34	-4,060.9	52.1	2,851.3	2,769.9	81.35	35.050	
15,200.0	10,900.0	18,021.1	13,732.0	80.1	85.1	173.34	-4,160.9	52.9	2,851.3	2,768.5	82.73	34.464	
15,300.0	10,900.0	18,121.1	13,732.0	81.6	86.4	173.34	-4,260.9	53.7	2,851.3	2,767.1	84.12	33.894	
15,400.0	10,900.0	18,221.1	13,732.0	83.0	87.8	173.34	-4,360.9	54.4	2,851.3	2,765.7	85.52	33.339	
15,500.0	10,900.0	18,321.1	13,732.0	84.5	89.2	173.34	-4,460.9	55.2	2,851.3	2,764.3	86.93	32.800	
15,600.0	10,900.0	18,421.1	13,732.0	86.0	90.6	173.34	-4,560.9	56.0	2,851.3	2,762.9	88.34	32.275	
15,700.0	10,900.0	18,521.1	13,732.0	87.5	91.9	173.34	-4,660.8	56.8	2,851.2	2,761.5	89.76	31.765	
15,800.0	10,900.0	18,621.1	13,732.0	88.9	93.4	173.34	-4,760.8	57.6	2,851.2	2,760.1	91.19	31.269	
15,900.0	10,900.0	18,721.1	13,732.0	90.4	94.8	173.34	-4,860.8	58.4	2,851.2	2,758.6	92.62	30.786	
16,000.0	10,900.0	18,821.1	13,732.0	91.9	96.2	173.34	-4,960.8	59.1	2,851.2	2,757.2	94.05	30.315	
16,100.0	10,900.0	18,921.1	13,732.0	93.4	97.6	173.34	-5,060.8	59.9	2,851.2	2,755.7	95.49	29.858	
16,200.0	10,900.0	19,021.1	13,732.0	94.9	99.1	173.34	-5,160.8	60.7	2,851.2	2,754.3	96.94	29.412	
16,300.0	10,900.0	19,121.1	13,732.0	96.4	100.5	173.34	-5,260.8	61.5	2,851.2	2,752.8	98.39	28.978	
16,400.0	10,900.0	19,221.1	13,732.0	98.0	101.9	173.34	-5,360.8	62.3	2,851.2	2,751.4	99.85	28.556	
16,500.0	10,900.0	19,321.1	13,732.0	99.5	103.4	173.34	-5,460.8	63.0	2,851.2	2,749.9	101.31	28.144	
16,600.0	10,900.0	19,421.1	13,732.0	101.0	104.9	173.34	-5,560.8	63.8	2,851.2	2,748.5	102.77	27.743	
16,700.0	10,900.0	19,521.1	13,732.0	102.5	106.3	173.34	-5,660.8	64.6	2,851.2	2,747.0	104.24	27.352	
16,800.0	10,900.0	19,621.1	13,732.0	104.1	107.8	173.34	-5,760.8	65.4	2,851.2	2,745.5	105.72	26.971	
16,900.0	10,900.0	19,721.1	13,732.0	105.6	109.3	173.34	-5,860.8	66.2	2,851.2	2,744.0	107.19	26.599	
17,000.0	10,900.0	19,821.1	13,732.0	107.1	110.8	173.34	-5,960.8	67.0	2,851.2	2,742.6	108.67	26.237	
17,100.0	10,900.0	19,921.1	13,732.0	108.7	112.2	173.34	-6,060.8	67.7	2,851.2	2,741.1	110.16	25.883	
17,200.0	10,900.0	20,021.1	13,732.0	110.2	113.7	173.34	-6,160.8	68.5	2,851.2	2,739.6	111.64	25.539	
17,300.0	10,900.0	20,121.1	13,732.0	111.8	115.2	173.34	-6,260.8	69.3	2,851.2	2,738.1	113.13	25.202	
17,400.0	10,900.0	20,221.1	13,732.0	113.3	116.7	173.34	-6,360.8	70.1	2,851.2	2,736.6	114.63	24.874	
17,500.0	10,900.0	20,321.1	13,732.0	114.9	118.2	173.34	-6,460.8	70.9	2,851.2	2,735.1	116.12	24.553	
17,600.0	10,900.0	20,421.1	13,732.0	116.4	119.7	173.34	-6,560.8	71.6	2,851.2	2,733.6	117.62	24.241	
17,700.0	10,900.0	20,521.1	13,732.0	118.0	121.2	173.34	-6,660.8	72.4	2,851.2	2,732.1	119.12	23.935	
17,800.0	10,900.0	20,621.1	13,732.0	119.5	122.8	173.34	-6,760.8	73.2	2,851.2	2,730.6	120.63	23.636	
17,900.0	10,900.0	20,721.1	13,732.0	121.1	124.3	173.34	-6,860.8	74.0	2,851.2	2,729.1	122.13	23.345	
18,000.0	10,900.0	20,821.1	13,732.0	122.7	125.8	173.35	-6,960.8	74.8	2,851.2	2,727.6	123.64	23.060	
18,100.0	10,900.0	20,921.1	13,732.0	124.2	127.3	173.35	-7,060.8	75.6	2,851.2	2,726.1	125.16	22.781	
18,200.0	10,900.0	21,021.1	13,732.0	125.8	128.9	173.35	-7,160.8	76.3	2,851.2	2,724.5	126.67	22.509	
18,300.0	10,900.0	21,121.1	13,732.0	127.4	130.4	173.35	-7,260.8	77.1	2,851.2	2,723.0	128.19	22.243	
18,400.0	10,900.0	21,221.1	13,732.0	129.0	131.9	173.35	-7,360.8	77.9	2,851.2	2,721.5	129.70	21.982	
18,500.0	10,900.0	21,321.1	13,732.0	130.5	133.5	173.35	-7,460.8	78.7	2,851.2	2,720.0	131.22	21.728	
18,600.0	10,900.0	21,421.1	13,732.0	132.1	135.0	173.35	-7,560.8	79.5	2,851.2	2,718.5	132.75	21.478	
18,700.0	10,900.0	21,521.1	13,732.0	133.7	136.5	173.35	-7,660.8	80.2	2,851.2	2,716.9	134.27	21.235	
18,800.0	10,900.0	21,621.1	13,732.0	135.3	138.1	173.35	-7,760.8	81.0	2,851.2	2,715.4	135.80	20.996	
18,900.0	10,900.0	21,721.1	13,732.0	136.9	139.6	173.35	-7,860.8	81.8	2,851.2	2,713.9	137.33	20.762	
19,000.0	10,900.0	21,821.1	13,732.0	138.4	141.2	173.35	-7,960.7	82.6	2,851.2	2,712.3	138.85	20.534	
19,100.0	10,900.0	21,921.1	13,732.0	140.0	142.7	173.35	-8,060.7	83.4	2,851.2	2,710.8	140.39	20.310	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boros - Boros Federal #242H - Wellbore #1 - BLM Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,200.0	10,900.0	22,021.1	13,732.0	141.6	144.3	173.35	-8,160.7	84.2	2,851.2	2,709.3	141.92	20.090		
19,300.0	10,900.0	22,121.1	13,732.0	143.2	145.8	173.35	-8,260.7	84.9	2,851.2	2,707.7	143.45	19.875		
19,400.0	10,900.0	22,221.1	13,732.0	144.8	147.4	173.35	-8,360.7	85.7	2,851.2	2,706.2	144.99	19.665		
19,500.0	10,900.0	22,321.1	13,732.0	146.4	149.0	173.35	-8,460.7	86.5	2,851.2	2,704.7	146.53	19.458		
19,600.0	10,900.0	22,421.1	13,732.0	148.0	150.5	173.35	-8,560.7	87.3	2,851.2	2,703.1	148.07	19.256		
19,700.0	10,900.0	22,521.1	13,732.0	149.6	152.1	173.35	-8,660.7	88.1	2,851.2	2,701.6	149.61	19.058		
19,800.0	10,900.0	22,621.1	13,732.0	151.2	153.7	173.35	-8,760.7	88.8	2,851.2	2,700.0	151.15	18.864		
19,900.0	10,900.0	22,721.1	13,732.0	152.8	155.2	173.35	-8,860.7	89.6	2,851.2	2,698.5	152.69	18.673		
20,000.0	10,900.0	22,821.1	13,732.0	154.4	156.8	173.35	-8,960.7	90.4	2,851.2	2,696.9	154.23	18.486		
20,100.0	10,900.0	22,921.1	13,732.0	156.0	158.4	173.35	-9,060.7	91.2	2,851.2	2,695.4	155.78	18.303		
20,200.0	10,900.0	23,021.1	13,732.0	157.6	159.9	173.35	-9,160.7	92.0	2,851.2	2,693.8	157.33	18.123		
20,300.0	10,900.0	23,121.1	13,732.0	159.2	161.5	173.35	-9,260.7	92.8	2,851.2	2,692.3	158.87	17.946		
20,400.0	10,900.0	23,221.1	13,732.0	160.8	163.1	173.35	-9,360.7	93.5	2,851.2	2,690.7	160.42	17.773		
20,500.0	10,900.0	23,321.1	13,732.0	162.4	164.7	173.35	-9,460.7	94.3	2,851.2	2,689.2	161.97	17.603		
20,600.0	10,900.0	23,421.1	13,732.0	164.0	166.3	173.35	-9,560.7	95.1	2,851.2	2,687.6	163.52	17.436		
20,700.0	10,900.0	23,521.1	13,732.0	165.6	167.8	173.35	-9,660.7	95.9	2,851.2	2,686.1	165.08	17.272		
20,800.0	10,900.0	23,621.1	13,732.0	167.2	169.4	173.35	-9,760.7	96.7	2,851.2	2,684.5	166.63	17.111		
20,900.0	10,900.0	23,721.1	13,732.0	168.8	171.0	173.35	-9,860.7	97.4	2,851.2	2,683.0	168.18	16.953		
21,000.0	10,900.0	23,821.1	13,732.0	170.4	172.5	173.35	-9,960.7	98.2	2,851.2	2,681.5	169.66	16.805		
21,068.1	10,900.0	23,889.3	13,732.0	171.5	173.5	173.35	-10,028.8	98.8	2,851.2	2,680.7	170.47	16.725		
21,100.0	10,900.0	23,881.2	13,732.0	172.0	173.4	173.35	-10,020.7	98.7	2,851.4	2,680.9	170.54	16.720		
21,201.2	10,900.0	23,881.2	13,732.0	173.7	173.4	173.35	-10,020.7	98.7	2,854.6	2,683.8	170.88	16.705		

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 Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3255.5usft

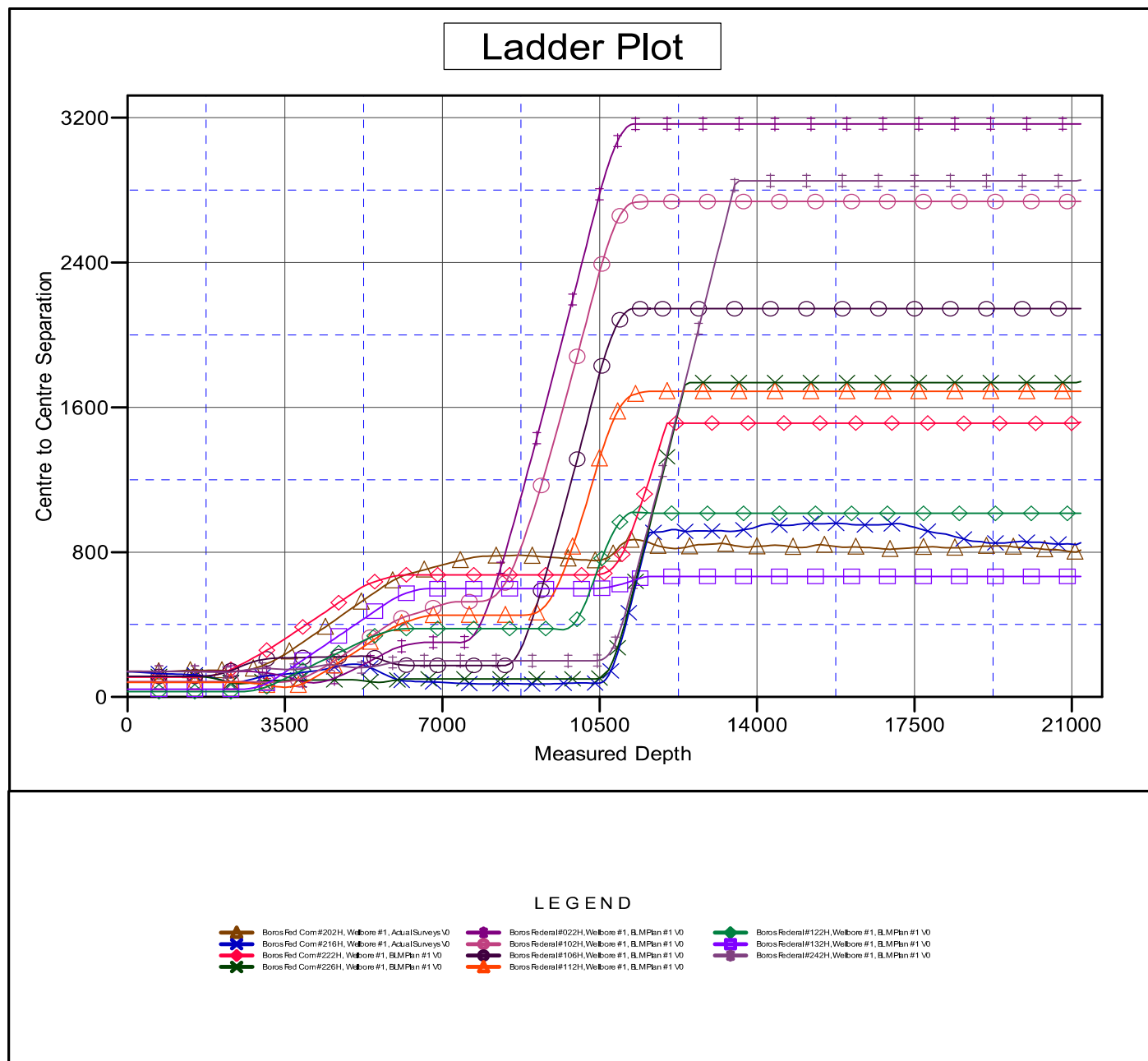
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Boros Federal #136H

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

Grid Convergence at Surface is: 0.30°



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

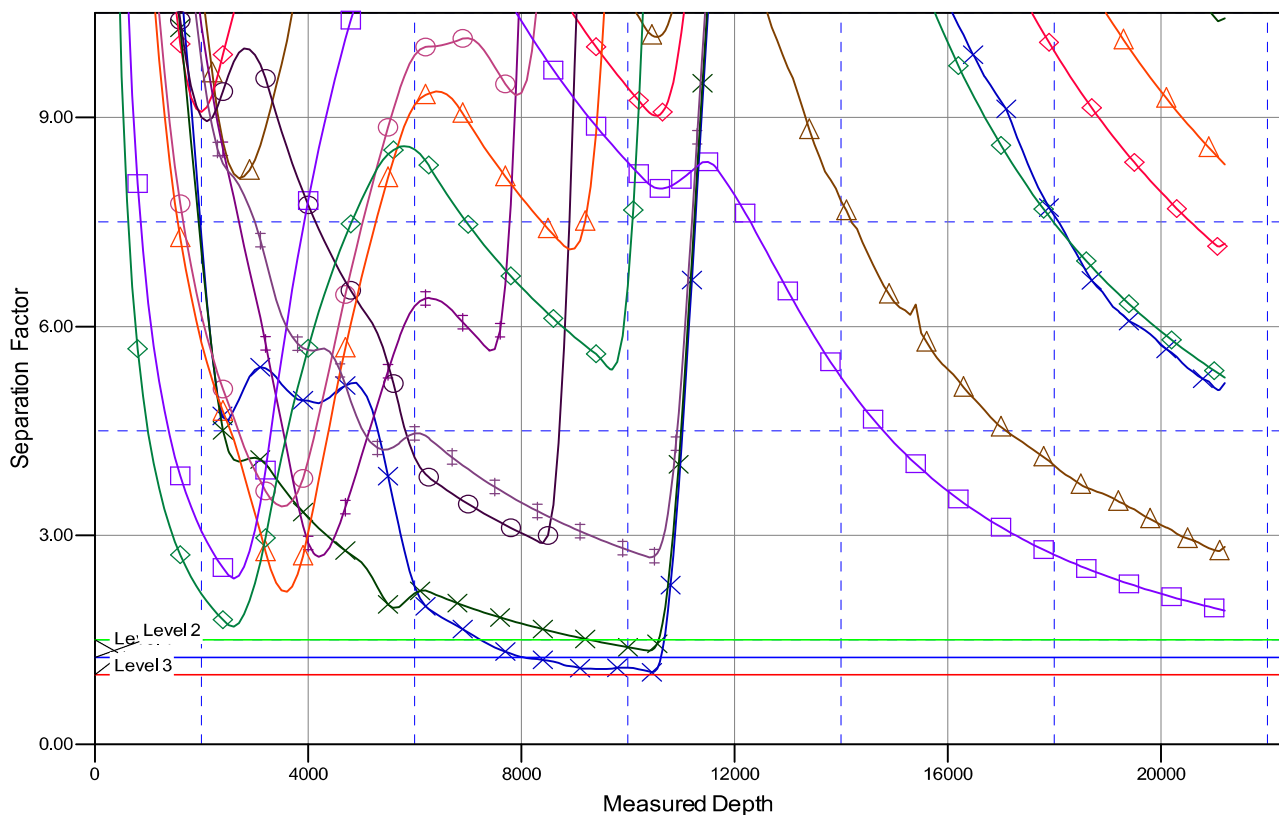
Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Boros Federal #136H
Project:	Rustler Breaks	TVD Reference:	KB @ 3255.5usft
Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3255.5usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Boros Federal #136H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.30°

Separation Factor Plot



LEGEND

Boros Fed Com #202H, Wellbore #1, Actual Surveys V0	Boros Federal #022H, Wellbore #1, BLM Plan #1 V0	Boros Federal #122H, Wellbore #1, BLM Plan #1 V0
Boros Fed Com #216H, Wellbore #1, Actual Surveys V0	Boros Federal #102H, Wellbore #1, BLM Plan #1 V0	Boros Federal #132H, Wellbore #1, BLM Plan #1 V0
Boros Fed Com #222H, Wellbore #1, BLM Plan #1 V0	Boros Federal #106H, Wellbore #1, BLM Plan #1 V0	Boros Federal #242H, Wellbore #1, BLM Plan #1 V0
Boros Fed Com #226H, Wellbore #1, BLM Plan #1 V0	Boros Federal #112H, Wellbore #1, BLM Plan #1 V0	

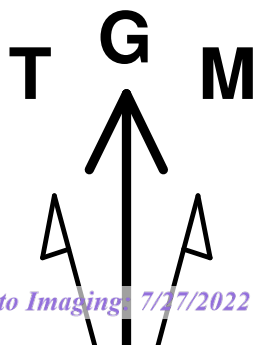
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Company: Matador Production Company
Well: Boros Federal #136H
County: Eddy County, New Mexico
Wellbore: Wellbore #1
Plan: BLM Plan #1
Date: 9/9/2020

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

To convert a Magnetic Direction to a Grid Direction, Add
To convert a Magnetic Direction to a True Direction, Add 6
To convert a True Direction to a Grid Direction, Subtract



Azimuths to
True Magnetic
Magnetic

Matador Production Company

Rustler Breaks

Boros

Boros Federal #136H

Wellbore #1

Plan: BLM Plan #1

Standard Planning Report

11 September, 2020

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Boros Federal #136H
Company:	Matador Production Company	TVD Reference:	KB @ 3255.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3255.5usft
Site:	Boros	North Reference:	Grid
Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

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

Site		Boros			
Site Position: From:		Northing:	381,953.36 usft	Latitude:	32° 2' 55.786 N
	Lat/Long	Easting:	676,179.89 usft	Longitude:	103° 45' 52.934 W
	Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:

Well	Boros Federal #136H					
Well Position	+N/-S	23.1 usft	Northing:	381,976.46 usft	Latitude:	32° 2' 56.065 N
	+E/-W	-977.1 usft	Easting:	675,202.86 usft	Longitude:	103° 46' 4.284 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,227.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/9/2020	6.68	59.83	47,483.88995587

Design	BLM Plan #1			
Audit Notes:				
Version:	1	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	179.56

Plan Survey Tool Program	Date	9/11/2020			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	21,201.2	BLM Plan #1 (Wellbore #1)	MWD	
				OWSG MWD - Standard	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,300.0	8.00	35.03	3,297.4	45.7	32.0	1.00	1.00	0.00	35.03	
5,726.0	8.00	35.03	5,699.8	322.1	225.8	0.00	0.00	0.00	0.00	
6,259.3	0.00	0.00	6,231.4	352.6	247.2	1.50	-1.50	0.00	180.00	
10,354.9	0.00	0.00	10,327.0	352.6	247.2	0.00	0.00	0.00	0.00	VP - Boros Federal
11,254.9	90.00	171.90	10,900.0	-214.7	327.9	10.00	10.00	0.00	171.90	
11,638.0	90.00	179.56	10,900.0	-596.4	356.4	2.00	0.00	2.00	90.00	
21,201.2	90.00	179.56	10,900.0	-10,159.3	429.7	0.00	0.00	0.00	0.00	BHL - Boros Federal

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Boros Federal #136H
Company:	Matador Production Company	TVD Reference:	KB @ 3255.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3255.5usft
Site:	Boros	North Reference:	Grid
Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 1.00									
2,600.0	1.00	35.03	2,600.0	0.7	0.5	-0.7	1.00	1.00	0.00
2,700.0	2.00	35.03	2,700.0	2.9	2.0	-2.8	1.00	1.00	0.00
2,800.0	3.00	35.03	2,799.9	6.4	4.5	-6.4	1.00	1.00	0.00
2,900.0	4.00	35.03	2,899.7	11.4	8.0	-11.4	1.00	1.00	0.00
3,000.0	5.00	35.03	2,999.4	17.9	12.5	-17.8	1.00	1.00	0.00
3,100.0	6.00	35.03	3,098.9	25.7	18.0	-25.6	1.00	1.00	0.00
3,200.0	7.00	35.03	3,198.3	35.0	24.5	-34.8	1.00	1.00	0.00
3,300.0	8.00	35.03	3,297.4	45.7	32.0	-45.4	1.00	1.00	0.00
Start 2426.0 hold at 3300.0 MD									
3,400.0	8.00	35.03	3,396.4	57.1	40.0	-56.7	0.00	0.00	0.00
3,500.0	8.00	35.03	3,495.5	68.5	48.0	-68.1	0.00	0.00	0.00
3,600.0	8.00	35.03	3,594.5	79.8	56.0	-79.4	0.00	0.00	0.00
3,700.0	8.00	35.03	3,693.5	91.2	64.0	-90.7	0.00	0.00	0.00
3,800.0	8.00	35.03	3,792.5	102.6	72.0	-102.1	0.00	0.00	0.00
3,900.0	8.00	35.03	3,891.6	114.0	79.9	-113.4	0.00	0.00	0.00
4,000.0	8.00	35.03	3,990.6	125.4	87.9	-124.8	0.00	0.00	0.00
4,100.0	8.00	35.03	4,089.6	136.8	95.9	-136.1	0.00	0.00	0.00
4,200.0	8.00	35.03	4,188.6	148.2	103.9	-147.4	0.00	0.00	0.00
4,300.0	8.00	35.03	4,287.7	159.6	111.9	-158.8	0.00	0.00	0.00
4,400.0	8.00	35.03	4,386.7	171.0	119.9	-170.1	0.00	0.00	0.00
4,500.0	8.00	35.03	4,485.7	182.4	127.9	-181.4	0.00	0.00	0.00
4,600.0	8.00	35.03	4,584.8	193.8	135.9	-192.8	0.00	0.00	0.00
4,700.0	8.00	35.03	4,683.8	205.2	143.9	-204.1	0.00	0.00	0.00
4,800.0	8.00	35.03	4,782.8	216.6	151.8	-215.4	0.00	0.00	0.00
4,900.0	8.00	35.03	4,881.8	228.0	159.8	-226.8	0.00	0.00	0.00
5,000.0	8.00	35.03	4,980.9	239.4	167.8	-238.1	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Boros Federal #136H
Company:	Matador Production Company	TVD Reference:	KB @ 3255.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3255.5usft
Site:	Boros	North Reference:	Grid
Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	8.00	35.03	5,079.9	250.8	175.8	-249.4	0.00	0.00	0.00
5,200.0	8.00	35.03	5,178.9	262.2	183.8	-260.8	0.00	0.00	0.00
5,300.0	8.00	35.03	5,277.9	273.6	191.8	-272.1	0.00	0.00	0.00
5,400.0	8.00	35.03	5,377.0	285.0	199.8	-283.4	0.00	0.00	0.00
5,500.0	8.00	35.03	5,476.0	296.4	207.8	-294.8	0.00	0.00	0.00
5,600.0	8.00	35.03	5,575.0	307.8	215.8	-306.1	0.00	0.00	0.00
5,700.0	8.00	35.03	5,674.0	319.2	223.7	-317.4	0.00	0.00	0.00
5,726.0	8.00	35.03	5,699.8	322.1	225.8	-320.4	0.00	0.00	0.00
Start Drop -1.50									
5,800.0	6.89	35.03	5,773.2	330.0	231.3	-328.2	1.50	-1.50	0.00
5,900.0	5.39	35.03	5,872.6	338.7	237.5	-336.9	1.50	-1.50	0.00
6,000.0	3.89	35.03	5,972.3	345.4	242.1	-343.5	1.50	-1.50	0.00
6,100.0	2.39	35.03	6,072.1	349.8	245.2	-347.9	1.50	-1.50	0.00
6,200.0	0.89	35.03	6,172.1	352.2	246.9	-350.3	1.50	-1.50	0.00
6,259.3	0.00	0.00	6,231.4	352.6	247.2	-350.7	1.50	-1.50	0.00
Start 4095.6 hold at 6259.3 MD									
6,300.0	0.00	0.00	6,272.1	352.6	247.2	-350.7	0.00	0.00	0.00
6,400.0	0.00	0.00	6,372.1	352.6	247.2	-350.7	0.00	0.00	0.00
6,500.0	0.00	0.00	6,472.1	352.6	247.2	-350.7	0.00	0.00	0.00
6,600.0	0.00	0.00	6,572.1	352.6	247.2	-350.7	0.00	0.00	0.00
6,700.0	0.00	0.00	6,672.1	352.6	247.2	-350.7	0.00	0.00	0.00
6,800.0	0.00	0.00	6,772.1	352.6	247.2	-350.7	0.00	0.00	0.00
6,900.0	0.00	0.00	6,872.1	352.6	247.2	-350.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,972.1	352.6	247.2	-350.7	0.00	0.00	0.00
7,100.0	0.00	0.00	7,072.1	352.6	247.2	-350.7	0.00	0.00	0.00
7,200.0	0.00	0.00	7,172.1	352.6	247.2	-350.7	0.00	0.00	0.00
7,300.0	0.00	0.00	7,272.1	352.6	247.2	-350.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,372.1	352.6	247.2	-350.7	0.00	0.00	0.00
7,500.0	0.00	0.00	7,472.1	352.6	247.2	-350.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,572.1	352.6	247.2	-350.7	0.00	0.00	0.00
7,700.0	0.00	0.00	7,672.1	352.6	247.2	-350.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,772.1	352.6	247.2	-350.7	0.00	0.00	0.00
7,900.0	0.00	0.00	7,872.1	352.6	247.2	-350.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,972.1	352.6	247.2	-350.7	0.00	0.00	0.00
8,100.0	0.00	0.00	8,072.1	352.6	247.2	-350.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,172.1	352.6	247.2	-350.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,272.1	352.6	247.2	-350.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,372.1	352.6	247.2	-350.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,472.1	352.6	247.2	-350.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,572.1	352.6	247.2	-350.7	0.00	0.00	0.00
8,700.0	0.00	0.00	8,672.1	352.6	247.2	-350.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,772.1	352.6	247.2	-350.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,872.1	352.6	247.2	-350.7	0.00	0.00	0.00
9,000.0	0.00	0.00	8,972.1	352.6	247.2	-350.7	0.00	0.00	0.00
9,100.0	0.00	0.00	9,072.1	352.6	247.2	-350.7	0.00	0.00	0.00
9,200.0	0.00	0.00	9,172.1	352.6	247.2	-350.7	0.00	0.00	0.00
9,300.0	0.00	0.00	9,272.1	352.6	247.2	-350.7	0.00	0.00	0.00
9,400.0	0.00	0.00	9,372.1	352.6	247.2	-350.7	0.00	0.00	0.00
9,500.0	0.00	0.00	9,472.1	352.6	247.2	-350.7	0.00	0.00	0.00
9,600.0	0.00	0.00	9,572.1	352.6	247.2	-350.7	0.00	0.00	0.00
9,700.0	0.00	0.00	9,672.1	352.6	247.2	-350.7	0.00	0.00	0.00
9,800.0	0.00	0.00	9,772.1	352.6	247.2	-350.7	0.00	0.00	0.00
9,900.0	0.00	0.00	9,872.1	352.6	247.2	-350.7	0.00	0.00	0.00
10,000.0	0.00	0.00	9,972.1	352.6	247.2	-350.7	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Boros Federal #136H
Company:	Matador Production Company	TVD Reference:	KB @ 3255.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3255.5usft
Site:	Boros	North Reference:	Grid
Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,100.0	0.00	0.00	10,072.1	352.6	247.2	-350.7	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,172.1	352.6	247.2	-350.7	0.00	0.00	0.00	
10,300.0	0.00	0.00	10,272.1	352.6	247.2	-350.7	0.00	0.00	0.00	
10,354.9	0.00	0.00	10,327.0	352.6	247.2	-350.7	0.00	0.00	0.00	
Start Build 10.00 - VP - Boros Federal #136H										
10,400.0	4.51	171.90	10,372.0	350.8	247.4	-348.9	10.00	10.00	0.00	
10,500.0	14.51	171.90	10,470.5	334.5	249.7	-332.6	10.00	10.00	0.00	
10,600.0	24.51	171.90	10,564.7	301.5	254.4	-299.5	10.00	10.00	0.00	
10,700.0	34.51	171.90	10,651.6	252.8	261.4	-250.7	10.00	10.00	0.00	
10,800.0	44.51	171.90	10,728.6	189.9	270.3	-187.8	10.00	10.00	0.00	
10,900.0	54.51	171.90	10,793.5	114.7	281.0	-112.5	10.00	10.00	0.00	
11,000.0	64.51	171.90	10,844.2	29.5	293.1	-27.2	10.00	10.00	0.00	
11,100.0	74.51	171.90	10,879.1	-63.2	306.3	65.5	10.00	10.00	0.00	
11,200.0	84.51	171.90	10,897.3	-160.4	320.2	162.8	10.00	10.00	0.00	
11,254.9	90.00	171.90	10,900.0	-214.7	327.9	217.2	10.00	10.00	0.00	
Start DLS 2.00 TFO 90.00										
11,300.0	90.00	172.80	10,900.0	-259.3	333.9	261.9	2.00	0.00	2.00	
11,400.0	90.00	174.80	10,900.0	-358.8	344.7	361.4	2.00	0.00	2.00	
11,500.0	90.00	176.80	10,900.0	-458.5	352.0	461.2	2.00	0.00	2.00	
11,600.0	90.00	178.80	10,900.0	-558.4	355.8	561.1	2.00	0.00	2.00	
11,638.0	90.00	179.56	10,900.0	-596.4	356.4	599.1	2.00	0.00	2.00	
Start 9563.3 hold at 11638.0 MD										
11,700.0	90.00	179.56	10,900.0	-658.4	356.9	661.1	0.00	0.00	0.00	
11,800.0	90.00	179.56	10,900.0	-758.4	357.6	761.1	0.00	0.00	0.00	
11,900.0	90.00	179.56	10,900.0	-858.4	358.4	861.1	0.00	0.00	0.00	
12,000.0	90.00	179.56	10,900.0	-958.4	359.2	961.1	0.00	0.00	0.00	
12,100.0	90.00	179.56	10,900.0	-1,058.4	359.9	1,061.1	0.00	0.00	0.00	
12,200.0	90.00	179.56	10,900.0	-1,158.4	360.7	1,161.1	0.00	0.00	0.00	
12,300.0	90.00	179.56	10,900.0	-1,258.4	361.5	1,261.1	0.00	0.00	0.00	
12,400.0	90.00	179.56	10,900.0	-1,358.4	362.2	1,361.1	0.00	0.00	0.00	
12,500.0	90.00	179.56	10,900.0	-1,458.4	363.0	1,461.1	0.00	0.00	0.00	
12,600.0	90.00	179.56	10,900.0	-1,558.4	363.8	1,561.1	0.00	0.00	0.00	
12,700.0	90.00	179.56	10,900.0	-1,658.4	364.5	1,661.1	0.00	0.00	0.00	
12,800.0	90.00	179.56	10,900.0	-1,758.4	365.3	1,761.1	0.00	0.00	0.00	
12,900.0	90.00	179.56	10,900.0	-1,858.4	366.1	1,861.1	0.00	0.00	0.00	
13,000.0	90.00	179.56	10,900.0	-1,958.4	366.8	1,961.1	0.00	0.00	0.00	
13,100.0	90.00	179.56	10,900.0	-2,058.4	367.6	2,061.1	0.00	0.00	0.00	
13,200.0	90.00	179.56	10,900.0	-2,158.3	368.4	2,161.1	0.00	0.00	0.00	
13,300.0	90.00	179.56	10,900.0	-2,258.3	369.1	2,261.1	0.00	0.00	0.00	
13,400.0	90.00	179.56	10,900.0	-2,358.3	369.9	2,361.1	0.00	0.00	0.00	
13,500.0	90.00	179.56	10,900.0	-2,458.3	370.7	2,461.1	0.00	0.00	0.00	
13,600.0	90.00	179.56	10,900.0	-2,558.3	371.4	2,561.1	0.00	0.00	0.00	
13,700.0	90.00	179.56	10,900.0	-2,658.3	372.2	2,661.1	0.00	0.00	0.00	
13,800.0	90.00	179.56	10,900.0	-2,758.3	373.0	2,761.1	0.00	0.00	0.00	
13,900.0	90.00	179.56	10,900.0	-2,858.3	373.7	2,861.1	0.00	0.00	0.00	
14,000.0	90.00	179.56	10,900.0	-2,958.3	374.5	2,961.1	0.00	0.00	0.00	
14,100.0	90.00	179.56	10,900.0	-3,058.3	375.3	3,061.1	0.00	0.00	0.00	
14,200.0	90.00	179.56	10,900.0	-3,158.3	376.0	3,161.1	0.00	0.00	0.00	
14,300.0	90.00	179.56	10,900.0	-3,258.3	376.8	3,261.1	0.00	0.00	0.00	
14,400.0	90.00	179.56	10,900.0	-3,358.3	377.6	3,361.1	0.00	0.00	0.00	
14,500.0	90.00	179.56	10,900.0	-3,458.3	378.3	3,461.1	0.00	0.00	0.00	
14,600.0	90.00	179.56	10,900.0	-3,558.3	379.1	3,561.1	0.00	0.00	0.00	
14,700.0	90.00	179.56	10,900.0	-3,658.3	379.9	3,661.1	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Boros Federal #136H
Company:	Matador Production Company	TVD Reference:	KB @ 3255.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3255.5usft
Site:	Boros	North Reference:	Grid
Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,800.0	90.00	179.56	10,900.0	-3,758.3	380.6	3,761.1	0.00	0.00	0.00
14,900.0	90.00	179.56	10,900.0	-3,858.3	381.4	3,861.1	0.00	0.00	0.00
15,000.0	90.00	179.56	10,900.0	-3,958.3	382.2	3,961.1	0.00	0.00	0.00
15,100.0	90.00	179.56	10,900.0	-4,058.3	382.9	4,061.1	0.00	0.00	0.00
15,200.0	90.00	179.56	10,900.0	-4,158.3	383.7	4,161.1	0.00	0.00	0.00
15,300.0	90.00	179.56	10,900.0	-4,258.3	384.5	4,261.1	0.00	0.00	0.00
15,400.0	90.00	179.56	10,900.0	-4,358.3	385.2	4,361.1	0.00	0.00	0.00
15,500.0	90.00	179.56	10,900.0	-4,458.3	386.0	4,461.1	0.00	0.00	0.00
15,600.0	90.00	179.56	10,900.0	-4,558.3	386.8	4,561.1	0.00	0.00	0.00
15,700.0	90.00	179.56	10,900.0	-4,658.3	387.5	4,661.1	0.00	0.00	0.00
15,800.0	90.00	179.56	10,900.0	-4,758.3	388.3	4,761.1	0.00	0.00	0.00
15,900.0	90.00	179.56	10,900.0	-4,858.3	389.1	4,861.1	0.00	0.00	0.00
16,000.0	90.00	179.56	10,900.0	-4,958.3	389.8	4,961.1	0.00	0.00	0.00
16,100.0	90.00	179.56	10,900.0	-5,058.3	390.6	5,061.1	0.00	0.00	0.00
16,200.0	90.00	179.56	10,900.0	-5,158.3	391.4	5,161.1	0.00	0.00	0.00
16,300.0	90.00	179.56	10,900.0	-5,258.3	392.1	5,261.1	0.00	0.00	0.00
16,400.0	90.00	179.56	10,900.0	-5,358.3	392.9	5,361.1	0.00	0.00	0.00
16,500.0	90.00	179.56	10,900.0	-5,458.3	393.7	5,461.1	0.00	0.00	0.00
16,600.0	90.00	179.56	10,900.0	-5,558.2	394.4	5,561.1	0.00	0.00	0.00
16,700.0	90.00	179.56	10,900.0	-5,658.2	395.2	5,661.1	0.00	0.00	0.00
16,800.0	90.00	179.56	10,900.0	-5,758.2	396.0	5,761.1	0.00	0.00	0.00
16,900.0	90.00	179.56	10,900.0	-5,858.2	396.7	5,861.1	0.00	0.00	0.00
17,000.0	90.00	179.56	10,900.0	-5,958.2	397.5	5,961.1	0.00	0.00	0.00
17,100.0	90.00	179.56	10,900.0	-6,058.2	398.3	6,061.1	0.00	0.00	0.00
17,200.0	90.00	179.56	10,900.0	-6,158.2	399.0	6,161.1	0.00	0.00	0.00
17,300.0	90.00	179.56	10,900.0	-6,258.2	399.8	6,261.1	0.00	0.00	0.00
17,400.0	90.00	179.56	10,900.0	-6,358.2	400.6	6,361.1	0.00	0.00	0.00
17,500.0	90.00	179.56	10,900.0	-6,458.2	401.3	6,461.1	0.00	0.00	0.00
17,600.0	90.00	179.56	10,900.0	-6,558.2	402.1	6,561.1	0.00	0.00	0.00
17,700.0	90.00	179.56	10,900.0	-6,658.2	402.9	6,661.1	0.00	0.00	0.00
17,800.0	90.00	179.56	10,900.0	-6,758.2	403.6	6,761.1	0.00	0.00	0.00
17,900.0	90.00	179.56	10,900.0	-6,858.2	404.4	6,861.1	0.00	0.00	0.00
18,000.0	90.00	179.56	10,900.0	-6,958.2	405.2	6,961.1	0.00	0.00	0.00
18,100.0	90.00	179.56	10,900.0	-7,058.2	405.9	7,061.1	0.00	0.00	0.00
18,200.0	90.00	179.56	10,900.0	-7,158.2	406.7	7,161.1	0.00	0.00	0.00
18,300.0	90.00	179.56	10,900.0	-7,258.2	407.5	7,261.1	0.00	0.00	0.00
18,400.0	90.00	179.56	10,900.0	-7,358.2	408.2	7,361.1	0.00	0.00	0.00
18,500.0	90.00	179.56	10,900.0	-7,458.2	409.0	7,461.1	0.00	0.00	0.00
18,600.0	90.00	179.56	10,900.0	-7,558.2	409.8	7,561.1	0.00	0.00	0.00
18,700.0	90.00	179.56	10,900.0	-7,658.2	410.6	7,661.1	0.00	0.00	0.00
18,800.0	90.00	179.56	10,900.0	-7,758.2	411.3	7,761.1	0.00	0.00	0.00
18,900.0	90.00	179.56	10,900.0	-7,858.2	412.1	7,861.1	0.00	0.00	0.00
19,000.0	90.00	179.56	10,900.0	-7,958.2	412.9	7,961.1	0.00	0.00	0.00
19,100.0	90.00	179.56	10,900.0	-8,058.2	413.6	8,061.1	0.00	0.00	0.00
19,200.0	90.00	179.56	10,900.0	-8,158.2	414.4	8,161.1	0.00	0.00	0.00
19,300.0	90.00	179.56	10,900.0	-8,258.2	415.2	8,261.1	0.00	0.00	0.00
19,400.0	90.00	179.56	10,900.0	-8,358.2	415.9	8,361.1	0.00	0.00	0.00
19,500.0	90.00	179.56	10,900.0	-8,458.2	416.7	8,461.1	0.00	0.00	0.00
19,600.0	90.00	179.56	10,900.0	-8,558.2	417.5	8,561.1	0.00	0.00	0.00
19,700.0	90.00	179.56	10,900.0	-8,658.2	418.2	8,661.1	0.00	0.00	0.00
19,800.0	90.00	179.56	10,900.0	-8,758.2	419.0	8,761.1	0.00	0.00	0.00
19,900.0	90.00	179.56	10,900.0	-8,858.2	419.8	8,861.1	0.00	0.00	0.00
20,000.0	90.00	179.56	10,900.0	-8,958.1	420.5	8,961.1	0.00	0.00	0.00
20,100.0	90.00	179.56	10,900.0	-9,058.1	421.3	9,061.1	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Boros Federal #136H
Company:	Matador Production Company	TVD Reference:	KB @ 3255.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3255.5usft
Site:	Boros	North Reference:	Grid
Well:	Boros Federal #136H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
20,200.0	90.00	179.56	10,900.0	-9,158.1	422.1	9,161.1	0.00	0.00	0.00	
20,300.0	90.00	179.56	10,900.0	-9,258.1	422.8	9,261.1	0.00	0.00	0.00	
20,400.0	90.00	179.56	10,900.0	-9,358.1	423.6	9,361.1	0.00	0.00	0.00	
20,500.0	90.00	179.56	10,900.0	-9,458.1	424.4	9,461.1	0.00	0.00	0.00	
20,600.0	90.00	179.56	10,900.0	-9,558.1	425.1	9,561.1	0.00	0.00	0.00	
20,700.0	90.00	179.56	10,900.0	-9,658.1	425.9	9,661.1	0.00	0.00	0.00	
20,800.0	90.00	179.56	10,900.0	-9,758.1	426.7	9,761.1	0.00	0.00	0.00	
20,900.0	90.00	179.56	10,900.0	-9,858.1	427.4	9,861.1	0.00	0.00	0.00	
21,000.0	90.00	179.56	10,900.0	-9,958.1	428.2	9,961.1	0.00	0.00	0.00	
21,100.0	90.00	179.56	10,900.0	-10,058.1	429.0	10,061.1	0.00	0.00	0.00	
21,200.0	90.00	179.56	10,900.0	-10,158.1	429.7	10,161.1	0.00	0.00	0.00	
21,201.2	90.00	179.56	10,900.0	-10,159.3	429.7	10,162.3	0.00	0.00	0.00	
TD at 21201.2 - BHL - Boros Federal #136H										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
VP - Boros Federal #1 - plan hits target center - Point	0.00	0.00	10,327.0	352.6	247.2	382,329.00	675,450.00	32° 2' 59.541 N		103° 46' 1.392 W
BHL - Boros Federal # - plan hits target center - Point	0.00	0.00	10,900.0	-10,159.3	429.7	371,816.41	675,632.62	32° 1' 15.497 N		103° 45' 59.910 W

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
2,500.0	2,500.0	0.0	0.0	Start Build 1.00	
3,300.0	3,297.4	45.7	32.0	Start 2426.0 hold at 3300.0 MD	
5,726.0	5,699.8	322.1	225.8	Start Drop -1.50	
6,259.3	6,231.4	352.6	247.2	Start 4095.6 hold at 6259.3 MD	
10,354.9	10,327.0	352.6	247.2	Start Build 10.00	
11,254.9	10,900.0	-214.7	327.9	Start DLS 2.00 TFO 90.00	
11,638.0	10,900.0	-596.4	356.4	Start 9563.3 hold at 11638.0 MD	
21,201.2	10,900.0	-10,159.3	429.7	TD at 21201.2	

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

COMMENTS

Action 95128

COMMENTS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 95128
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 4/8/2022	4/8/2022

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CONDITIONS

Action 95128

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 95128
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	The correct pool has been noted on the APD. Subsequent sundries and paperwork must reflect this pool.	4/8/2022
kpickford	Adhere to previous NMOCD Conditions of Approval	4/8/2022