

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.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

3a. Address

3b. Phone No. (include area code)

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

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

8. Well Name and No.

9. API Well No.

10. Field and Pool or Exploratory Area

11. Country or Parish, State

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	
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
☐ Final Abandonment Notice	☐ 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 detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Title

Signature

Date

THE 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)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

Please see the supporting documentation attached and contact Blake Hermes at 972-371-5485 or bhermes@matadorresources.com for any questions.

Location of Well

0. SHL: NENW / 430 FNL / 1850 FWL / TWSP: 26S / RANGE: 31E / SECTION: 15 / LAT: 32.0489491 / LONG: -103.7686863 (TVD: 0 feet, MD: 0 feet)
PPP: NENW / 100 FNL / 1650 FWL / TWSP: 26S / RANGE: 31E / SECTION: 15 / LAT: 32.0498551 / LONG: -103.7693283 (TVD: 8240 feet, MD: 8594 feet)
BHL: SESW / 100 FSL / 1650 FWL / TWSP: 26S / RANGE: 31E / SECTION: 22 / LAT: 32.0210942 / LONG: -103.7692445 (TVD: 8240 feet, MD: 18534 feet)

CONFIDENTIAL

Well Name: BOROS FEDERAL	Well Location: T26S / R31E / SEC 15 / NENW / 32.0489491 / -103.7686863	County or Parish/State: EDDY / NM
Well Number: 102H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM138865	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001546865	Well Status: Approved Application for Permit to Drill	Operator: MATADOR PRODUCTION COMPANY

Notice of Intent

Sundry ID: 2698556

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 10/18/2022	Time Sundry Submitted: 11:46
Date proposed operation will begin: 10/21/2022	

Procedure Description: BLM Bond No.: NMB001079 Surety Bond No.: RLB0015172 Resubmitting from Original Electronic Submission #532867 in WIS Matador request to move the SHL of the Boros Federal #102H well from 430' FNL and 1850' FWL to 430' FNL and 2040' FWL. Please see attached C102. Matador also requests the option to amend the casing and cement design to the attached plan. 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.

NOI Attachments

Procedure Description

- LO_BOROS_FEDERAL_102H_REV6_S_20221018114535.pdf
- Sundry_Submitted__532867_20221018114536.pdf
- Boros_Federal_102H_Drill_Plan_20221018114525.pdf
- Boros_Federal_102H_Directional_Wall_Plot_v2_20221018114525.pdf
- Boros_Federal_102H_Directional_Well_Plan_v2_20221018114525.pdf
- Boros_Federal_102H_Directional_AC_Report_v2_20221018114525.pdf
- Boros_Federal_102H_Casing_Table_Spec_20221018114525.pdf
- Boros_Federal_102H_Casing_Specs_5.5in_20lb_Hunting_TLW_SC_20221018114525.pdf

Received by OCD: 1/23/2023 10:13:10 AM

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Well Name: BOROS FEDERAL	Well Location: T26S / R31E / SEC 15 / NENW / 32.0489491 / -103.7686863	County or Parish/State: EDDY / NM
Well Number: 102H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM138865	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001546865	Well Status: Approved Application for Permit to Drill	Operator: MATADOR PRODUCTION COMPANY

Conditions of Approval

Additional
BOROS_FED_COM_102H___SUNDRY_COA_20221216165743.pdf

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: NICKY FITZGERALD

Signed on: OCT 18, 2022 11:45 AM

Name: MATADOR PRODUCTION COMPANY

Title: Regulatory

Street Address: 5400 LBJ FREEWAY STE 1500

City: DALLASState: TX

Phone: (972) 371-5448

Email address: nicky.fitzgerald@matadorresources.com

Field

Representative Name:

Street Address:

City:State:Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 01/19/2023

Signature: Chris Walls

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

All previous COAs apply

OPERATOR'S NAME:	MATADOR PRODUCTION COMPANY
LEASE NO.:	NMNM138865
WELL NAME & NO.:	BOROS FED COM 102H
SURFACE HOLE FOOTAGE:	430'/N & 2040'/W
BOTTOM HOLE FOOTAGE:	100'/S & 1644'/W
LOCATION:	Section 15, T.26 S., R.31 E.
COUNTY:	Eddy County, New Mexico

COA

H2S	☐ Yes	☒ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☐ Low	☒ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☒ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☒ COM	☐ Unit

A. CASING

Alternate Casing Design:

1. The 13-3/8 inch surface casing shall be set at approximately **1361** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours

after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The 7-5/8 inch intermediate casing shall be set at approximately **8,200** feet. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 7-5/8" X 13-3/8" annulus. Operator must top out cement after the bradenhead squeeze and verify cement to surface. Operator can also check TOC with Echo-meter. CBL must be run from TD of the 7-5/8" casing to surface if confidence is lacking on the quality of the bradenhead squeeze cement job. Submit results to BLM.

3. The 5-1/2 inch production casing shall be set at approximately **18,541** feet. **Cement excess <25% CFO recommendation. More excess might be needed to accomplish tie-back listed below.** The minimum required fill of cement behind the 5-1/2 inch production casing is:

Option 1 (Single Stage):

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure

- rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
- b. When the operator proposes to set surface casing with Spudder Rig
- Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall

have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

KPI – 12-16-2022

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 30-015-46865	² Pool Code 97860	³ Pool Name JENNINGS; BONE SPRING, WEST
⁴ Property Code 326329	⁵ Property Name BOROS FEDERAL	⁶ Well Number 102H
⁷ OGRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 3227'

¹⁰Surface Location

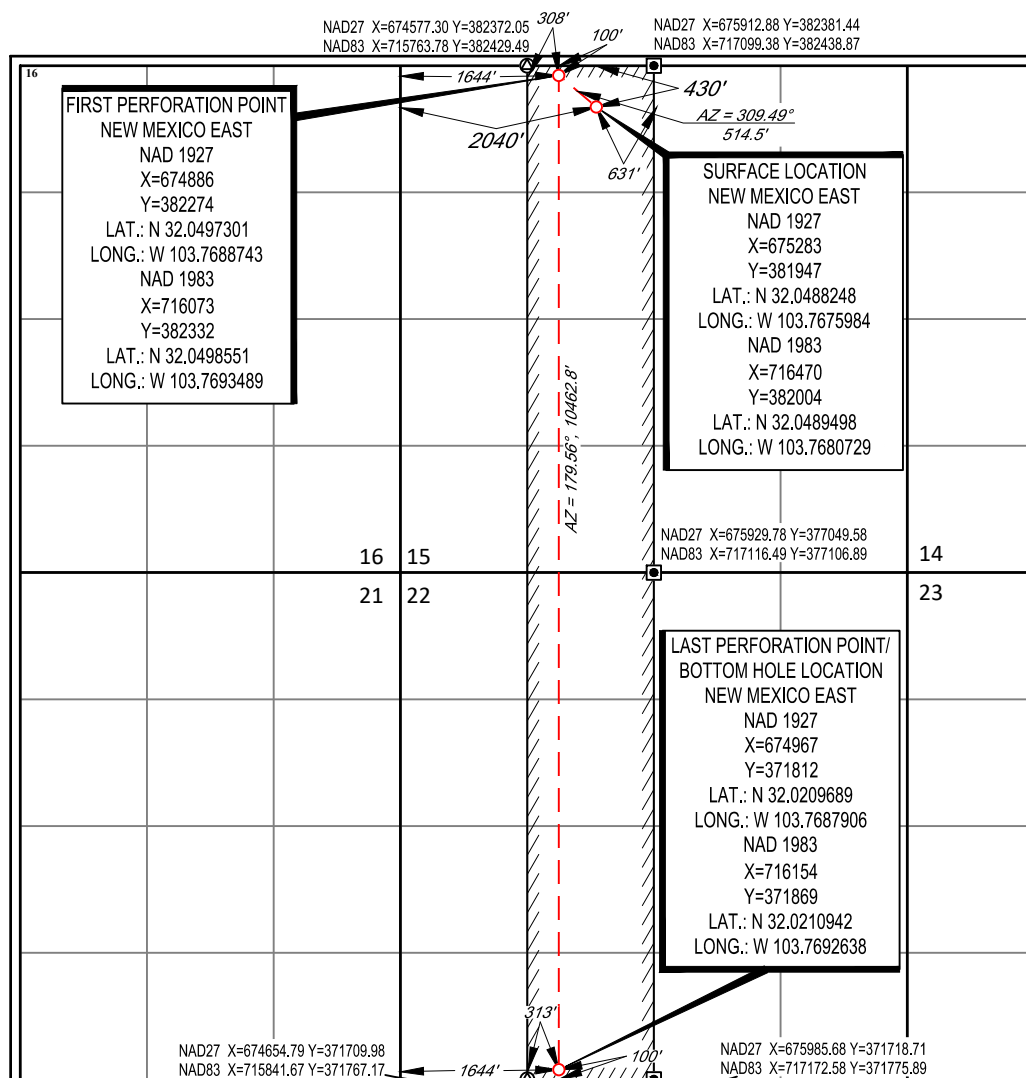
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	15	26-S	31-E	-	430'	NORTH	2040'	WEST	EDDY

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	1644'	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.

¹⁷OPERATOR CERTIFICATION

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

Nicky Fitzgerald 10/5/2020
Signature Date

Nicky Fitzgerald

Printed Name

nicky.fitzgerald@matadorresources.com

E-mail Address

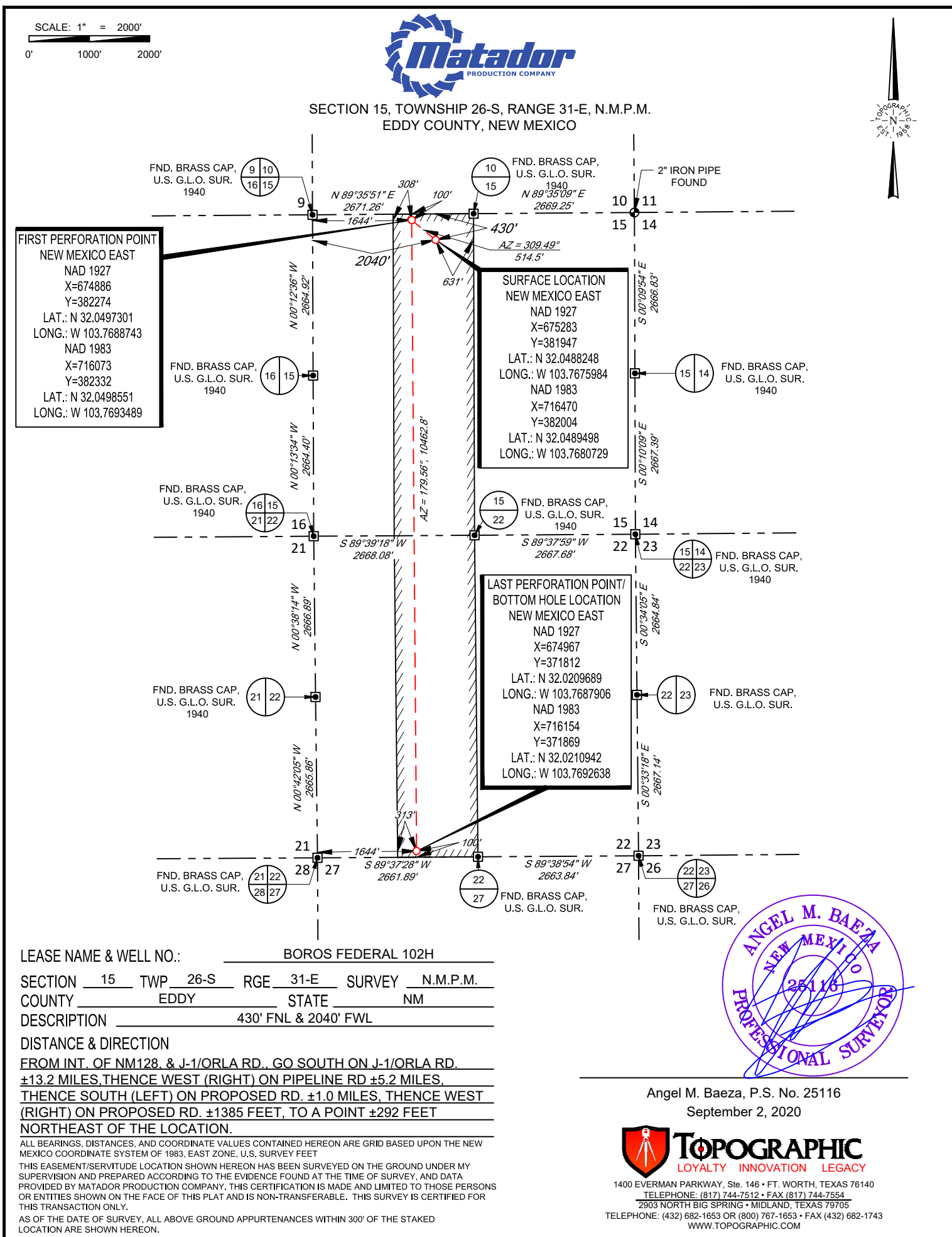
¹⁸SURVEYOR CERTIFICATION

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

08/26/2020

Date of Survey
Signature and Seal of Professional Surveyor

ANGEL M. REZA
NEW MEXICO
PROFESSIONAL SURVEYOR
25116
Certificate Number

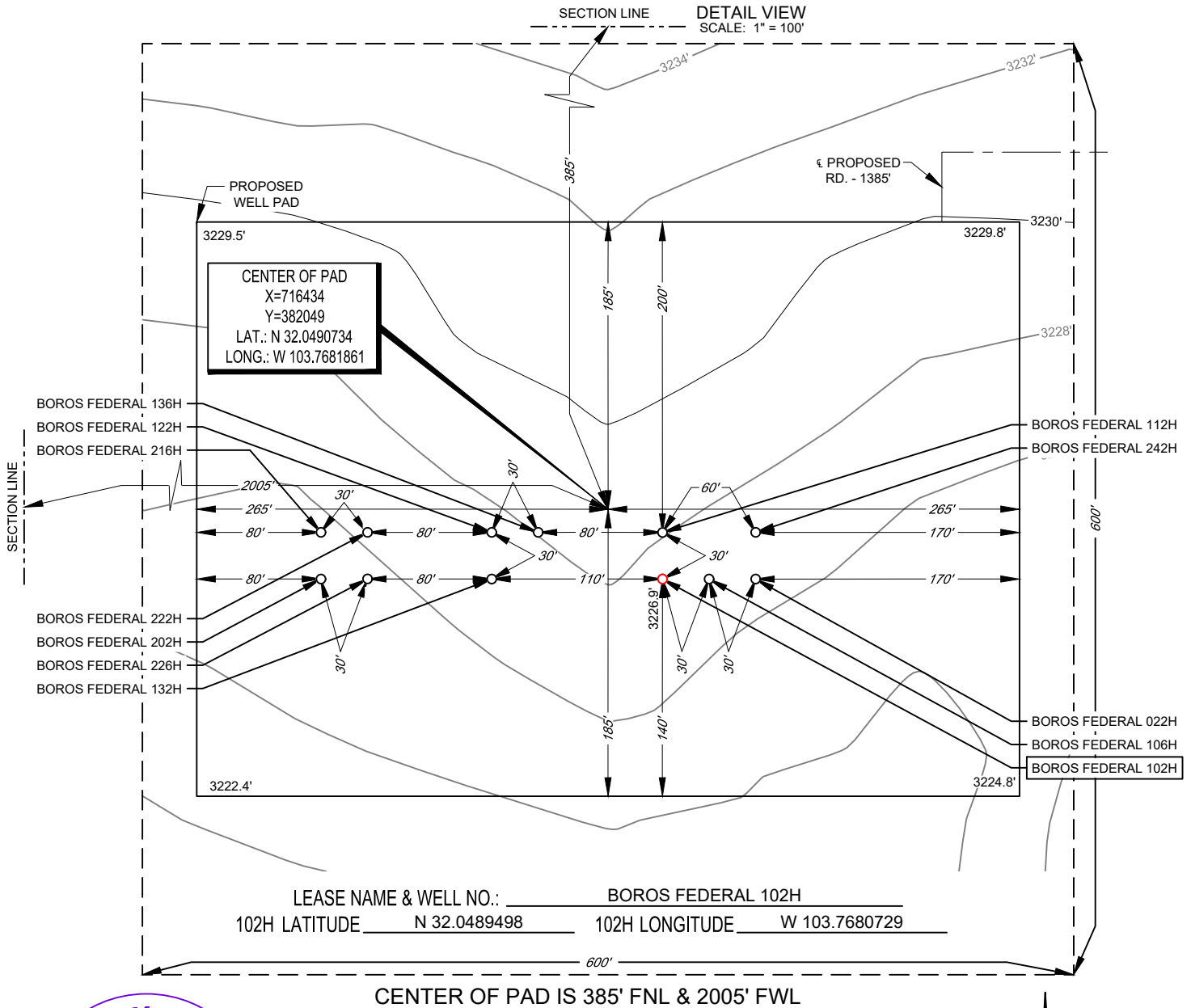




LEGEND

--- SECTION LINE
 --- PROPOSED ROAD
 --- ARCH SURVEY

SECTION 15, TOWNSHIP 26-S, RANGE 31-E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO



Angel M. Baeza, P.S. No. 25116

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET, ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. ONLY THE DATA SHOWN ABOVE IS BEING CERTIFIED TO, ALL OTHER INFORMATION WAS INTENTIONALLY OMITTED. THIS PLAT IS ONLY INTENDED TO BE USED FOR A PERMIT AND IS NOT A BOUNDARY SURVEY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"



SCALE: 1" = 100'
 0' 50' 100'



TOPOGRAPHIC
 LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM



TEC-LOCK WEDGE

5.500" 20 LB/FT (.361"Wall) with 5.875" SPECIAL CLEARANCE OD
BEN P110 CY

Pipe Body Data

Nominal OD:	5.500	in
Nominal Wall:	.361	in
Nominal Weight:	20.00	lb/ft
Plain End Weight:	19.83	lb/ft
Material Grade:	P110 CY	
Mill/Specification:	BEN	
Yield Strength:	125,000	psi
Tensile Strength:	135,000	psi
Nominal ID:	4.778	in
API Drift Diameter:	4.653	in
Special Drift Diameter:	None	in
RBW:	87.5 %	
Body Yield:	729,000	lbf
Burst:	14,360	psi
Collapse:	13,010	psi

Connection Data

Standard OD:	5.875	in
Pin Bored ID:	4.778	in
Critical Section Area:	5.656	in ²
Tensile Efficiency:	97 %	
Compressive Efficiency:	100 %	
Longitudinal Yield Strength:	707,000	lbf
Compressive Limit:	729,000	lbf
Internal Pressure Rating:	14,360	psi
External Pressure Rating:	13,010	psi
Maximum Bend:	101.2	°/100ft

Operational Data

Minimum Makeup Torque:	15,000	ft*lbf
Optimum Makeup Torque:	18,700	ft*lbf
Maximum Makeup Torque:	41,200	ft*lbf
Minimum Yield:	45,800	ft*lbf
Makeup Loss:	5.97	in

Notes Operational Torque is equivalent to the Maximum Make-Up Torque

Generated on Sep 03, 2019



Casing Table Specification Sheet

Boros Federal 102H

SHL: 430' FNL & 2040' FWL Section 15

BHL: 100' FSL & 1644' 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	0 - 1361	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 8200	0 - 8105	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	6.75	0 - 18541	0 - 8241	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

Matador Production Company

Rustler Breaks

Boros

Boros Federal #102H

Wellbore #1

BLM Plan #1

Anticollision Report

11 September, 2020

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Boros Federal #102H
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 #102H	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	18,541.5	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
Offset Well - Wellbore - Design						
Boros						
Boros Fed Com #202H - Wellbore #1 - Actual Surveys	703.4	702.4	216.6	212.1	48.742	CC
Boros Fed Com #202H - Wellbore #1 - Actual Surveys	7,100.0	7,078.7	220.4	169.1	4.296	ES
Boros Fed Com #202H - Wellbore #1 - Actual Surveys	7,200.0	7,178.5	222.3	170.3	4.273	SF
Boros Fed Com #216H - Wellbore #1 - Actual Surveys	2,635.0	2,644.1	151.8	133.2	8.169	CC
Boros Fed Com #216H - Wellbore #1 - Actual Surveys	2,700.0	2,708.5	152.1	133.0	7.970	ES
Boros Fed Com #216H - Wellbore #1 - Actual Surveys	2,900.0	2,904.2	158.7	138.1	7.709	SF
Boros Fed Com #222H - Wellbore #1 - BLM Plan #1	7,767.0	7,762.4	147.9	92.0	2.644	CC
Boros Fed Com #222H - Wellbore #1 - BLM Plan #1	7,800.0	7,805.0	148.0	91.9	2.637	ES, SF
Boros Fed Com #226H - Wellbore #1 - BLM Plan #1	2,662.1	2,668.3	156.9	138.2	8.371	CC
Boros Fed Com #226H - Wellbore #1 - BLM Plan #1	2,700.0	2,705.8	157.0	138.0	8.252	ES
Boros Fed Com #226H - Wellbore #1 - BLM Plan #1	4,000.0	4,008.8	183.9	155.6	6.493	SF
Boros Federal #022H - Wellbore #1 - BLM Plan #1	3,000.0	3,000.0	60.0	38.9	2.850	CC
Boros Federal #022H - Wellbore #1 - BLM Plan #1	3,200.0	3,200.9	60.8	38.3	2.706	ES
Boros Federal #022H - Wellbore #1 - BLM Plan #1	18,542.4	18,050.4	584.7	353.9	2.534	SF
Boros Federal #106H - Wellbore #1 - BLM Plan #1	1,500.0	1,500.0	30.0	19.7	2.914	CC
Boros Federal #106H - Wellbore #1 - BLM Plan #1	1,600.0	1,599.7	30.6	19.6	2.776	ES
Boros Federal #106H - Wellbore #1 - BLM Plan #1	1,700.0	1,699.3	32.3	20.6	2.759	SF
Boros Federal #112H - Wellbore #1 - BLM Plan #1	3,000.0	3,000.0	30.0	9.0	1.428	Level 3, CC
Boros Federal #112H - Wellbore #1 - BLM Plan #1	6,800.0	6,797.4	54.4	4.3	1.086	Level 2, ES, SF
Boros Federal #122H - Wellbore #1 - BLM Plan #1	6,421.8	6,417.0	109.8	63.0	2.346	CC
Boros Federal #122H - Wellbore #1 - BLM Plan #1	6,500.0	6,505.5	110.4	62.9	2.325	ES, SF
Boros Federal #132H - Wellbore #1 - BLM Plan #1	7,747.5	7,745.7	72.0	16.0	1.287	Level 3, CC
Boros Federal #132H - Wellbore #1 - BLM Plan #1	7,750.0	7,748.2	72.0	16.0	1.287	Level 3, ES, SF
Boros Federal #136H - Wellbore #1 - BLM Plan #1	3,267.1	3,265.5	81.5	58.6	3.557	CC
Boros Federal #136H - Wellbore #1 - BLM Plan #1	3,300.0	3,302.1	81.6	58.4	3.523	ES
Boros Federal #136H - Wellbore #1 - BLM Plan #1	3,500.0	3,504.1	83.9	59.4	3.419	SF
Boros Federal #242H - Wellbore #1 - BLM Plan #1	1,416.3	1,416.3	67.1	57.4	6.922	CC
Boros Federal #242H - Wellbore #1 - BLM Plan #1	1,700.0	1,699.4	67.9	56.2	5.794	ES
Boros Federal #242H - Wellbore #1 - BLM Plan #1	2,000.0	1,997.5	74.8	60.9	5.395	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 #102H
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 #102H	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		
0.0	0.0	0.0	0.0	0.0	0.0	-90.39	-1.5	-220.0	220.0					
100.0	100.0	99.9	99.9	0.1	0.1	-90.40	-1.5	-219.8	219.8	219.5	0.28	788.353		
200.0	200.0	200.5	200.5	0.5	0.4	-90.43	-1.6	-219.2	219.2	218.4	0.85	258.775		
300.0	300.0	300.6	300.6	0.8	0.7	-90.52	-2.0	-218.5	218.5	216.9	1.56	139.769		
400.0	400.0	400.3	400.3	1.2	1.1	-90.63	-2.4	-217.8	217.9	215.6	2.28	95.602		
500.0	500.0	500.3	500.3	1.6	1.4	-90.76	-2.9	-217.2	217.2	214.2	3.00	72.517		
600.0	600.0	599.7	599.7	1.9	1.8	-90.85	-3.2	-216.7	216.7	213.0	3.71	58.424		
700.0	700.0	699.0	699.0	2.3	2.1	-90.89	-3.4	-216.6	216.6	212.2	4.42	49.008		
703.4	703.4	702.4	702.4	2.3	2.2	-90.89	-3.4	-216.6	216.6	212.1	4.44	48.742 CC		
800.0	800.0	798.2	798.2	2.6	2.5	-90.92	-3.5	-216.7	216.7	211.6	5.12	42.359		
900.0	900.0	897.1	897.1	3.0	2.8	-90.94	-3.6	-217.3	217.3	211.5	5.81	37.417		
1,000.0	1,000.0	995.6	995.5	3.4	3.1	-90.96	-3.7	-218.5	218.6	212.1	6.50	33.614		
1,100.0	1,100.0	1,095.5	1,095.5	3.7	3.5	-91.01	-3.9	-220.2	220.2	213.0	7.20	30.570		
1,200.0	1,200.0	1,196.2	1,196.2	4.1	3.8	-90.96	-3.7	-221.6	221.7	213.7	7.91	28.024		
1,300.0	1,300.0	1,296.8	1,296.7	4.4	4.2	-90.80	-3.1	-222.8	222.8	214.2	8.62	25.861		
1,400.0	1,400.0	1,397.3	1,397.3	4.8	4.5	-90.64	-2.5	-223.7	223.7	214.4	9.32	23.998		
1,500.0	1,500.0	1,498.4	1,498.3	5.1	4.9	-90.42	-1.6	-224.3	224.3	214.2	10.03	22.356		
1,600.0	1,600.0	1,599.2	1,599.1	5.5	5.2	-90.18	-0.7	-224.4	224.4	213.6	10.74	20.892		
1,690.7	1,690.7	1,690.4	1,690.4	5.8	5.6	-89.96	0.2	-224.2	224.2	212.8	11.38	19.699		
1,700.0	1,700.0	1,698.9	1,698.8	5.9	5.6	-89.94	0.2	-224.2	224.2	212.8	11.45	19.591		
1,800.0	1,800.0	1,796.0	1,795.9	6.2	5.9	-89.80	0.8	-225.2	225.2	213.0	12.14	18.542		
1,900.0	1,900.0	1,898.2	1,898.1	6.6	6.3	-89.72	1.1	-226.1	226.1	213.3	12.86	17.581		
2,000.0	2,000.0	2,001.3	2,001.2	6.9	6.6	-89.66	1.3	-225.8	225.8	212.2	13.58	16.631		
2,100.0	2,100.0	2,103.5	2,103.4	7.3	7.0	-89.63	1.5	-224.3	224.3	210.0	14.29	15.698		
2,200.0	2,200.0	2,204.9	2,204.8	7.7	7.3	-89.61	1.5	-221.9	222.0	207.0	15.00	14.802		
2,300.0	2,300.0	2,301.7	2,301.6	8.0	7.7	-89.54	1.8	-219.8	219.8	204.1	15.70	14.001		
2,369.3	2,369.3	2,368.4	2,368.3	8.3	7.9	-89.43	2.2	-219.5	219.5	203.3	16.18	13.562		
2,400.0	2,400.0	2,398.4	2,398.2	8.4	8.0	-89.36	2.5	-219.5	219.5	203.1	16.40	13.388		
2,500.0	2,500.0	2,494.0	2,493.8	8.7	8.4	-88.94	4.1	-220.7	220.8	203.7	17.09	12.920		
2,600.0	2,600.0	2,591.6	2,591.3	9.1	8.7	-88.09	7.5	-223.6	223.8	206.0	17.78	12.586		
2,700.0	2,700.0	2,690.7	2,690.2	9.4	9.1	-87.00	11.9	-227.0	227.5	209.0	18.49	12.305		
2,800.0	2,800.0	2,789.7	2,789.1	9.8	9.4	-86.06	15.9	-230.8	231.5	212.3	19.19	12.065		
2,900.0	2,900.0	2,890.1	2,889.4	10.2	9.8	-85.21	19.7	-234.7	235.7	215.8	19.91	11.843		
3,000.0	3,000.0	2,989.1	2,988.2	10.5	10.1	-84.46	23.2	-238.7	240.0	219.4	20.61	11.645		
3,100.0	3,100.0	3,087.0	3,085.9	10.9	10.5	-39.98	27.4	-243.1	244.3	223.0	21.31	11.467		
3,200.0	3,200.0	3,187.0	3,185.7	11.2	10.8	-39.21	32.9	-247.9	247.7	225.7	22.01	11.253		
3,300.0	3,299.9	3,287.6	3,286.0	11.6	11.2	-38.76	38.2	-252.3	249.4	226.6	22.73	10.971		
3,400.0	3,399.7	3,384.3	3,382.4	11.9	11.5	-38.40	44.1	-257.4	250.6	227.2	23.41	10.704		
3,500.0	3,499.4	3,483.9	3,481.6	12.3	11.9	-38.22	50.6	-263.0	250.9	226.8	24.12	10.403		
3,592.2	3,591.1	3,572.5	3,569.8	12.6	12.2	-38.33	56.2	-268.6	250.6	225.9	24.74	10.130		
3,600.0	3,598.9	3,579.7	3,577.0	12.7	12.2	-38.34	56.7	-269.1	250.6	225.8	24.79	10.110		
3,700.0	3,698.3	3,674.7	3,671.4	13.0	12.6	-38.54	63.7	-277.5	251.5	226.0	25.45	9.881		
3,800.0	3,797.4	3,777.2	3,773.2	13.4	13.0	-39.12	70.8	-286.9	251.3	225.1	26.20	9.592		
3,900.0	3,896.4	3,877.9	3,873.4	13.8	13.3	-40.09	76.5	-294.9	249.2	222.3	26.93	9.253		
4,000.0	3,995.5	3,976.1	3,971.0	14.1	13.7	-40.71	83.6	-303.4	247.8	220.2	27.63	8.969		
4,100.0	4,094.5	4,077.6	4,071.8	14.5	14.1	-41.19	91.7	-312.1	246.6	218.2	28.38	8.689		
4,200.0	4,193.5	4,176.5	4,170.1	14.9	14.5	-41.73	99.2	-320.1	244.9	215.8	29.10	8.416		
4,300.0	4,292.5	4,275.1	4,267.9	15.2	14.8	-41.99	107.9	-328.8	244.0	214.2	29.82	8.183		
4,400.0	4,391.6	4,374.2	4,366.2	15.6	15.2	-42.16	117.2	-337.9	243.5	213.0	30.54	7.973		
4,500.0	4,490.6	4,473.8	4,464.9	16.0	15.6	-42.35	126.4	-347.4	243.3	212.0	31.28	7.779		
4,600.0	4,589.6	4,573.5	4,563.7	16.4	16.0	-42.61	135.3	-356.9	243.2	211.2	32.01	7.598		
4,637.3	4,626.5	4,610.8	4,600.7	16.5	16.1	-42.73	138.6	-360.6	243.2	210.9	32.29	7.532		

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 #102H
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Reference Site:	Boros	MD Reference:	KB @ 3255.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Boros Federal #102H	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	
4,700.0	4,688.6	4,673.7	4,663.1	16.8	16.4	-42.92	144.1	-366.6	243.2	210.4	32.76	7.423	
4,800.0	4,787.7	4,774.5	4,763.0	17.2	16.8	-43.23	152.9	-376.1	242.9	209.4	33.52	7.248	
4,900.0	4,886.7	4,874.9	4,862.6	17.6	17.2	-43.57	161.5	-385.3	242.4	208.2	34.27	7.074	
5,000.0	4,985.7	4,975.4	4,962.4	17.9	17.6	-43.99	169.9	-394.4	241.8	206.7	35.03	6.902	
5,100.0	5,084.8	5,075.9	5,062.2	18.3	17.9	-44.52	177.8	-403.3	240.9	205.1	35.79	6.731	
5,200.0	5,183.8	5,175.9	5,161.6	18.7	18.3	-45.17	185.1	-412.0	239.9	203.3	36.54	6.564	
5,300.0	5,282.8	5,276.2	5,261.2	19.1	18.7	-45.91	192.1	-420.7	238.9	201.6	37.30	6.403	
5,400.0	5,381.8	5,376.3	5,360.7	19.5	19.1	-46.72	198.8	-429.2	237.8	199.7	38.07	6.246	
5,500.0	5,480.9	5,476.2	5,460.1	19.9	19.5	-47.57	205.4	-437.7	236.7	197.9	38.83	6.096	
5,600.0	5,579.9	5,576.5	5,559.8	20.3	19.9	-48.50	211.7	-446.2	235.6	196.0	39.60	5.950	
5,700.0	5,678.9	5,676.3	5,659.0	20.7	20.3	-49.44	217.9	-454.5	234.5	194.2	40.37	5.809	
5,800.0	5,777.9	5,775.0	5,757.0	21.1	20.6	-50.03	225.5	-463.1	233.8	192.6	41.13	5.684	
5,900.0	5,877.0	5,874.9	5,856.2	21.5	21.0	-50.52	233.6	-472.2	233.4	191.5	41.90	5.571	
6,000.0	5,976.0	5,975.6	5,956.2	21.9	21.4	-51.09	241.5	-481.2	232.9	190.2	42.68	5.457	
6,100.0	6,075.0	6,076.5	6,056.4	22.3	21.8	-51.68	249.4	-489.9	232.0	188.6	43.46	5.338	
6,200.0	6,174.0	6,176.9	6,156.1	22.7	22.2	-52.23	257.4	-498.2	230.9	186.6	44.24	5.218	
6,300.0	6,273.1	6,277.1	6,255.8	23.1	22.6	-52.84	265.2	-506.3	229.6	184.6	45.03	5.100	
6,400.0	6,372.1	6,377.5	6,355.5	23.5	23.0	-53.63	272.3	-514.2	228.2	182.4	45.82	4.981	
6,500.0	6,471.1	6,477.1	6,454.5	23.9	23.4	-54.36	279.7	-522.0	226.9	180.3	46.60	4.868	
6,600.0	6,570.2	6,577.3	6,554.1	24.3	23.8	-55.02	287.4	-530.1	225.7	178.3	47.39	4.762	
6,700.0	6,669.2	6,678.1	6,654.4	24.7	24.2	-55.85	294.6	-537.7	224.1	175.9	48.19	4.650	
6,800.0	6,768.2	6,778.2	6,753.9	25.1	24.6	-56.51	302.4	-545.3	222.4	173.4	48.98	4.541	
6,878.7	6,846.2	6,857.0	6,832.2	25.4	24.9	-57.01	308.7	-551.2	221.0	171.4	49.60	4.456	
6,900.0	6,867.2	6,878.3	6,853.4	25.5	24.9	-57.13	310.4	-552.8	220.7	170.9	49.77	4.434	
7,000.0	6,966.5	6,978.6	6,953.1	25.9	25.3	-57.44	318.1	-560.1	219.9	169.4	50.55	4.351	
7,012.9	6,979.3	6,991.5	6,966.0	26.0	25.4	-57.46	319.0	-561.1	219.9	169.3	50.65	4.342	
7,100.0	7,066.1	7,078.7	7,052.8	26.3	25.7	-57.39	325.1	-567.2	220.4	169.1	51.30	4.296 ES	
7,200.0	7,165.8	7,178.5	7,152.1	26.7	26.1	-56.87	331.7	-574.2	222.3	170.3	52.03	4.273 SF	
7,300.0	7,265.7	7,280.5	7,253.6	27.0	26.5	-55.72	338.9	-581.0	225.4	172.7	52.74	4.274	
7,400.0	7,365.7	7,380.7	7,353.2	27.4	26.9	-53.74	347.4	-587.3	229.4	176.0	53.40	4.295	
7,412.1	7,377.8	7,392.7	7,365.2	27.4	26.9	-97.14	348.5	-588.0	230.0	176.5	53.48	4.300	
7,500.0	7,465.7	7,480.1	7,452.0	27.7	27.3	-95.10	356.2	-593.4	234.6	180.5	54.04	4.341	
7,600.0	7,565.7	7,580.1	7,551.5	28.1	27.7	-92.99	364.6	-599.5	240.1	185.4	54.69	4.390	
7,702.3	7,668.0	7,685.1	7,656.1	28.4	28.1	-91.18	372.0	-605.0	245.2	189.8	55.38	4.427	
7,750.0	7,715.7	7,734.2	7,705.1	28.6	28.2	88.37	374.9	-607.1	247.1	191.4	55.67	4.439	
7,800.0	7,765.2	7,785.9	7,756.7	28.7	28.4	90.31	377.5	-608.9	248.8	192.9	55.92	4.449	
7,850.0	7,814.1	7,837.5	7,808.2	28.8	28.6	93.10	379.5	-610.0	250.4	194.3	56.13	4.462	
7,900.0	7,861.8	7,886.6	7,857.3	28.9	28.8	96.49	381.0	-610.7	252.6	196.3	56.29	4.487	
7,950.0	7,908.1	7,933.7	7,904.4	29.0	29.0	100.36	382.2	-611.0	256.2	199.8	56.42	4.541	
8,000.0	7,952.5	7,978.0	7,948.7	29.1	29.1	104.36	383.2	-611.2	262.3	205.7	56.55	4.638	
8,050.0	7,994.8	8,020.0	7,990.7	29.2	29.3	108.27	384.0	-611.4	271.7	215.0	56.69	4.793	
8,100.0	8,034.5	8,059.4	8,030.1	29.3	29.4	111.84	384.7	-611.5	285.1	228.2	56.85	5.014	
8,150.0	8,071.5	8,095.9	8,066.6	29.3	29.5	114.87	385.3	-611.8	302.8	245.8	57.05	5.308	
8,200.0	8,105.4	8,129.5	8,100.2	29.3	29.6	117.18	385.7	-612.0	325.1	267.8	57.27	5.676	
8,250.0	8,136.0	8,159.6	8,130.2	29.4	29.7	118.61	386.0	-612.2	351.8	294.3	57.51	6.117	
8,300.0	8,163.0	8,186.1	8,156.7	29.4	29.8	119.05	386.3	-612.4	382.7	325.0	57.76	6.626	
8,350.0	8,186.3	8,208.9	8,179.5	29.4	29.9	118.35	386.6	-612.6	417.3	359.3	57.99	7.196	
8,400.0	8,205.6	8,227.8	8,198.4	29.4	30.0	116.31	386.8	-612.8	455.1	396.9	58.20	7.820	
8,450.0	8,220.8	8,242.6	8,213.3	29.4	30.0	112.66	386.9	-612.9	495.6	437.2	58.38	8.489	
8,500.0	8,231.9	8,253.3	8,223.9	29.4	30.1	107.03	387.0	-613.0	538.2	479.7	58.53	9.196	
8,550.0	8,238.6	8,259.5	8,230.2	29.5	30.1	99.08	387.1	-613.1	582.5	523.8	58.66	9.931	
8,602.3	8,241.0	8,261.4	8,232.1	29.7	30.1	88.22	387.1	-613.1	630.0	571.2	58.76	10.721	

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 #102H
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 #102H	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	
8,694.2	8,241.0	8,260.5	8,231.2	30.0	30.1	87.84	387.1	-613.1	715.6	656.7	58.89	12.152	
8,700.0	8,241.0	8,260.4	8,231.1	30.0	30.1	87.82	387.1	-613.1	721.1	662.2	58.90	12.242	
8,800.0	8,241.0	8,259.4	8,230.1	30.4	30.1	87.57	387.1	-613.1	816.3	757.3	59.01	13.834	
8,900.0	8,241.0	8,258.4	8,229.1	30.9	30.1	87.33	387.1	-613.1	912.6	853.5	59.10	15.442	
9,000.0	8,241.0	8,257.4	8,228.1	31.5	30.1	87.08	387.1	-613.1	1,009.6	950.4	59.18	17.061	
9,100.0	8,241.0	8,256.4	8,227.0	32.1	30.1	86.83	387.1	-613.1	1,107.1	1,047.9	59.24	18.689	
9,200.0	8,241.0	8,255.4	8,226.0	32.8	30.1	86.58	387.0	-613.0	1,205.1	1,145.8	59.30	20.323	
9,300.0	8,241.0	8,254.4	8,225.0	33.6	30.1	86.33	387.0	-613.0	1,303.3	1,244.0	59.35	21.961	
9,400.0	8,241.0	8,253.4	8,224.0	34.4	30.1	86.09	387.0	-613.0	1,401.8	1,342.4	59.39	23.603	
9,500.0	8,241.0	8,252.4	8,223.0	35.3	30.1	85.84	387.0	-613.0	1,500.5	1,441.1	59.43	25.247	
9,600.0	8,241.0	8,251.3	8,222.0	36.3	30.1	85.59	387.0	-613.0	1,599.4	1,539.9	59.47	26.894	
9,700.0	8,241.0	8,250.3	8,221.0	37.2	30.1	85.34	387.0	-613.0	1,698.4	1,638.9	59.51	28.541	
9,800.0	8,241.0	8,249.3	8,220.0	38.3	30.0	85.10	387.0	-613.0	1,797.5	1,737.9	59.54	30.190	
9,900.0	8,241.0	8,248.3	8,219.0	39.3	30.0	84.85	387.0	-613.0	1,896.7	1,837.1	59.57	31.839	
10,000.0	8,241.0	8,247.3	8,217.9	40.5	30.0	84.60	387.0	-613.0	1,995.9	1,936.3	59.60	33.488	
10,100.0	8,241.0	8,246.3	8,216.9	41.6	30.0	84.36	387.0	-613.0	2,095.3	2,035.7	59.63	35.137	
10,200.0	8,241.0	8,245.3	8,215.9	42.8	30.0	84.11	386.9	-613.0	2,194.7	2,135.0	59.66	36.786	
10,300.0	8,241.0	8,244.3	8,214.9	44.0	30.0	83.86	386.9	-612.9	2,294.1	2,234.5	59.69	38.434	
10,400.0	8,241.0	8,243.3	8,213.9	45.2	30.0	83.62	386.9	-612.9	2,393.6	2,333.9	59.72	40.081	
10,500.0	8,241.0	8,242.3	8,212.9	46.5	30.0	83.37	386.9	-612.9	2,493.2	2,433.4	59.75	41.728	
10,600.0	8,241.0	8,241.2	8,211.9	47.8	30.0	83.13	386.9	-612.9	2,592.8	2,533.0	59.78	43.374	
10,700.0	8,241.0	8,240.2	8,210.9	49.1	30.0	82.88	386.9	-612.9	2,692.4	2,632.6	59.81	45.018	
10,800.0	8,241.0	8,239.2	8,209.9	50.4	30.0	82.64	386.9	-612.9	2,792.0	2,732.2	59.84	46.661	
10,900.0	8,241.0	8,238.2	8,208.9	51.7	30.0	82.39	386.9	-612.9	2,891.7	2,831.8	59.86	48.303	
11,000.0	8,241.0	8,237.2	8,207.9	53.1	30.0	82.15	386.9	-612.9	2,991.3	2,931.4	59.89	49.944	
11,100.0	8,241.0	8,236.2	8,206.8	54.5	30.0	81.91	386.9	-612.9	3,091.0	3,031.1	59.92	51.582	
11,200.0	8,241.0	14,275.0	11,415.4	55.9	61.9	-179.96	-2,736.0	-353.9	3,176.0	3,121.1	54.93	57.815	
11,300.0	8,241.0	14,489.7	11,416.2	57.3	64.6	179.96	-2,950.7	-357.0	3,176.7	3,119.4	57.30	55.442	
11,400.0	8,241.0	14,558.0	11,415.5	58.7	65.5	179.92	-3,018.9	-358.4	3,175.7	3,117.2	58.42	54.361	
11,500.0	8,241.0	14,652.0	11,413.8	60.1	66.7	179.87	-3,112.9	-360.4	3,173.9	3,114.1	59.77	53.104	
11,559.0	8,241.0	14,691.5	11,413.1	61.0	67.2	179.85	-3,152.4	-361.3	3,173.1	3,112.7	60.43	52.510	
11,600.0	8,241.0	14,702.3	11,413.2	61.6	67.3	179.84	-3,163.2	-361.6	3,173.3	3,112.6	60.74	52.240	
11,700.0	8,241.0	11,700.0	11,415.0	63.0	39.1	179.81	-3,246.1	-362.9	3,175.4	3,134.2	41.23	77.013	
11,800.0	8,241.0	14,967.8	11,414.0	64.5	70.9	179.79	-3,428.5	-362.5	3,174.3	3,110.1	64.17	49.466	
11,900.0	8,241.0	15,059.0	11,413.2	66.0	72.2	179.81	-3,519.7	-360.7	3,173.3	3,107.8	65.53	48.425	
12,000.0	8,241.0	15,150.8	11,412.5	67.4	73.4	179.87	-3,611.5	-356.7	3,172.6	3,105.7	66.91	47.419	
12,100.0	8,241.0	15,251.2	11,412.1	68.9	74.8	179.95	-3,711.7	-351.7	3,172.2	3,103.8	68.36	46.401	
12,200.0	8,241.0	15,377.1	11,410.6	70.4	76.6	-179.99	-3,837.6	-347.3	3,171.0	3,100.9	70.06	45.260	
12,300.0	8,241.0	15,470.0	11,409.4	71.9	77.9	179.99	-3,930.4	-347.4	3,169.6	3,098.2	71.45	44.361	
12,370.1	8,241.0	15,503.0	11,409.0	73.0	78.4	179.98	-3,963.4	-347.9	3,169.1	3,096.9	72.13	43.933	
12,400.0	8,241.0	15,503.0	11,409.0	73.4	78.4	179.98	-3,963.4	-347.9	3,169.2	3,096.9	72.30	43.837	
12,500.0	8,241.0	15,553.3	11,409.4	74.9	79.1	179.95	-4,013.8	-349.1	3,170.4	3,097.1	73.30	43.253	
12,600.0	8,241.0	15,597.0	11,411.2	76.4	79.7	179.92	-4,057.4	-350.5	3,174.1	3,099.9	74.24	42.754	
12,700.0	8,241.0	15,636.6	11,413.5	78.0	80.3	179.89	-4,096.9	-351.8	3,179.6	3,104.5	75.14	42.313	
12,800.0	8,241.0	16,029.3	11,421.9	79.5	86.0	179.88	-4,489.1	-349.3	3,183.4	3,104.1	79.34	40.123	
12,900.0	8,241.0	16,107.2	11,419.7	81.0	87.1	179.91	-4,566.9	-346.9	3,180.6	3,099.9	80.62	39.451	
13,000.0	8,241.0	16,172.6	11,418.6	82.6	88.1	179.95	-4,632.3	-344.5	3,178.9	3,097.1	81.79	38.866	
13,100.0	8,241.0	16,256.0	11,417.6	84.1	89.3	180.00	-4,715.6	-341.1	3,177.7	3,094.6	83.13	38.226	
13,166.1	8,241.0	16,299.8	11,417.3	85.1	90.0	-179.97	-4,759.4	-339.2	3,177.3	3,093.4	83.91	37.867	
13,200.0	8,241.0	16,317.8	11,417.4	85.6	90.2	-179.96	-4,777.3	-338.4	3,177.4	3,093.2	84.26	37.708	
13,300.0	8,241.0	16,401.2	11,418.3	87.2	91.5	-179.91	-4,860.7	-334.6	3,178.5	3,092.9	85.61	37.129	
13,400.0	8,241.0	16,496.4	11,419.1	88.7	92.9	-179.91	-4,955.9	-333.9	3,179.4	3,092.3	87.06	36.521	

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 #102H
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 #102H	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	
13,500.0	8,241.0	16,589.7	11,420.5	90.3	94.3	-179.91	-5,049.2	-333.5	3,180.8	3,092.3	88.49	35.945	
13,600.0	8,241.0	16,814.6	11,419.0	91.9	97.6	-179.90	-5,274.0	-330.9	3,180.0	3,088.9	91.17	34.882	
13,700.0	8,241.0	16,867.6	11,417.9	93.4	98.4	-179.89	-5,327.0	-330.4	3,178.1	3,085.9	92.23	34.458	
13,757.6	8,241.0	16,894.8	11,417.8	94.3	98.8	-179.89	-5,354.3	-329.9	3,177.8	3,085.0	92.81	34.239	
13,800.0	8,241.0	16,918.0	11,417.8	95.0	99.2	-179.88	-5,377.4	-329.5	3,177.9	3,084.6	93.27	34.074	
13,900.0	8,241.0	17,026.9	11,418.4	96.6	100.8	-179.85	-5,486.3	-326.6	3,178.4	3,083.5	94.86	33.505	
14,000.0	8,241.0	17,212.8	11,416.7	98.1	103.7	-179.79	-5,672.1	-322.2	3,177.7	3,080.5	97.19	32.697	
14,100.0	8,241.0	17,285.5	11,415.3	99.7	104.8	-179.77	-5,744.8	-320.2	3,175.7	3,077.3	98.45	32.259	
14,200.0	8,241.0	17,425.9	11,411.1	101.3	106.9	-179.77	-5,885.0	-319.2	3,172.5	3,072.2	100.33	31.620	
14,300.0	8,241.0	17,483.0	11,410.0	102.9	107.8	-179.79	-5,942.1	-320.0	3,170.5	3,069.0	101.44	31.254	
14,400.0	8,241.0	17,553.6	11,409.5	104.4	108.9	-179.83	-6,012.7	-321.4	3,169.6	3,066.9	102.68	30.870	
14,482.7	8,241.0	17,616.8	11,409.3	105.7	109.8	-179.86	-6,075.9	-322.8	3,169.3	3,065.6	103.74	30.551	
14,500.0	8,241.0	17,629.0	11,409.3	106.0	110.0	-179.86	-6,088.1	-322.9	3,169.3	3,065.4	103.95	30.488	
14,600.0	8,241.0	17,698.6	11,409.7	107.6	111.1	-179.89	-6,157.7	-323.6	3,170.0	3,064.8	105.17	30.141	
14,700.0	8,241.0	17,774.6	11,411.0	109.2	112.3	-179.90	-6,233.7	-323.7	3,171.6	3,065.1	106.45	29.794	
14,800.0	8,241.0	17,906.0	11,412.1	110.8	114.3	-179.93	-6,365.1	-324.6	3,172.2	3,064.0	108.28	29.296	
14,900.0	8,241.0	18,007.0	11,413.3	112.4	115.8	-179.95	-6,466.1	-324.5	3,173.5	3,063.7	109.81	28.899	
15,000.0	8,241.0	18,180.7	11,412.1	114.0	118.5	179.99	-6,639.8	-326.8	3,172.5	3,060.5	112.04	28.316	
15,100.0	8,241.0	18,253.7	11,411.4	115.6	119.6	179.95	-6,712.7	-328.3	3,171.4	3,058.1	113.30	27.991	
15,166.2	8,241.0	18,300.4	11,411.2	116.6	120.4	179.94	-6,759.4	-328.8	3,171.2	3,057.1	114.12	27.788	
15,200.0	8,241.0	18,327.0	11,411.3	117.1	120.8	179.93	-6,786.0	-328.7	3,171.3	3,056.7	114.57	27.680	
15,300.0	8,241.0	18,527.3	11,408.3	118.7	123.9	179.94	-6,986.3	-326.8	3,169.7	3,052.7	117.04	27.081	
15,400.0	8,241.0	18,648.1	11,404.4	120.3	125.8	179.96	-7,106.9	-325.1	3,166.4	3,047.7	118.76	26.663	
15,500.0	8,241.0	18,678.8	11,403.8	121.9	126.3	179.96	-7,137.7	-324.8	3,164.2	3,044.5	119.65	26.444	
15,589.7	8,241.0	18,724.0	11,403.6	123.4	127.0	179.95	-7,182.9	-324.7	3,163.6	3,043.0	120.60	26.233	
15,600.0	8,241.0	18,724.0	11,403.6	123.5	127.0	179.95	-7,182.9	-324.7	3,163.7	3,043.0	120.65	26.221	
15,700.0	8,241.0	18,891.4	11,402.0	125.1	129.6	179.92	-7,350.3	-325.4	3,162.6	3,039.7	122.83	25.748	
15,800.0	8,241.0	18,990.4	11,400.2	126.7	131.1	179.89	-7,449.3	-325.8	3,160.7	3,036.4	124.35	25.418	
15,900.0	8,241.0	19,037.6	11,399.6	128.3	131.9	179.88	-7,496.4	-326.0	3,159.7	3,034.3	125.38	25.201	
15,905.1	8,241.0	19,039.5	11,399.6	128.4	131.9	179.88	-7,498.4	-326.0	3,159.7	3,034.2	125.43	25.192	
16,000.0	8,241.0	19,100.0	11,400.6	129.9	132.8	179.88	-7,558.8	-325.9	3,160.8	3,034.3	126.54	24.979	
16,100.0	8,241.0	19,149.6	11,402.0	131.6	133.6	179.87	-7,608.4	-325.7	3,163.2	3,035.6	127.55	24.799	
16,200.0	8,241.0	19,262.6	11,404.7	133.2	135.4	179.86	-7,721.4	-325.6	3,165.5	3,036.3	129.23	24.496	
16,300.0	8,241.0	19,325.3	11,406.3	134.8	136.4	179.86	-7,784.1	-325.4	3,168.2	3,037.9	130.37	24.302	
16,400.0	8,241.0	19,400.0	11,410.4	136.4	140.1	179.86	-7,890.9	-324.2	3,172.1	3,063.2	108.91	29.124	
16,500.0	8,241.0	19,689.2	11,411.4	138.0	142.1	179.86	-8,147.8	-322.6	3,171.9	3,036.8	135.09	23.480	
16,600.0	8,241.0	19,600.0	11,410.0	139.6	145.3	179.81	-8,259.4	-324.1	3,170.7	3,058.3	112.42	28.205	
16,700.0	8,241.0	19,891.3	11,407.7	141.2	145.3	179.78	-8,349.9	-325.4	3,168.3	3,030.1	138.18	22.928	
16,781.4	8,241.0	19,916.2	11,407.5	142.5	145.7	179.77	-8,374.8	-325.5	3,167.5	3,028.6	138.89	22.805	
16,800.0	8,241.0	19,948.0	11,407.9	142.8	146.2	179.77	-8,406.5	-325.4	3,167.9	3,028.6	139.31	22.740	
16,813.3	8,241.0	19,948.0	11,407.9	143.0	146.2	179.77	-8,406.5	-325.4	3,167.9	3,028.5	139.38	22.728	
16,900.0	8,241.0	20,000.0	11,407.6	144.4	147.7	179.83	-8,568.2	-321.0	3,168.6	3,051.5	117.02	27.077	
17,000.0	8,241.0	20,187.0	11,405.2	146.1	150.0	179.86	-8,645.4	-318.7	3,165.7	3,022.9	142.77	22.174	
17,100.0	8,241.0	20,262.6	11,405.0	147.7	150.8	179.88	-8,718.2	-316.7	3,165.2	3,045.2	119.95	26.388	
17,200.0	8,241.0	20,400.8	11,402.5	149.3	153.4	179.92	-8,859.1	-313.7	3,163.2	3,017.2	145.98	21.668	
17,300.0	8,241.0	20,479.9	11,401.2	150.9	154.7	179.93	-8,938.1	-312.4	3,161.5	3,014.2	147.33	21.458	
17,400.0	8,241.0	20,548.6	11,400.5	152.5	155.8	179.96	-9,006.8	-310.1	3,160.5	3,011.9	148.58	21.271	
17,500.0	8,241.0	20,600.0	11,395.0	154.1	157.2	179.96	-9,255.8	-308.3	3,159.2	3,032.8	126.34	25.005	
17,600.0	8,241.0	20,846.9	11,392.3	155.8	160.6	179.96	-9,304.8	-307.7	3,154.3	3,001.7	152.57	20.675	
17,700.0	8,241.0	20,895.0	11,391.6	157.4	161.3	179.98	-9,352.9	-306.7	3,152.1	2,998.5	153.65	20.515	
17,800.0	8,241.0	20,944.2	11,391.6	159.0	162.1	179.99	-9,402.1	-305.4	3,151.6	2,996.9	154.71	20.370	
17,854.6	8,241.0	17,854.6	11,391.3	159.9	112.7	-180.00	-9,456.0	-304.4	3,151.3	3,019.8	131.46	23.971	

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 #102H
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 #102H	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
Boros - Boros Fed Com #202H - Wellbore #1 - Actual Surveys												Offset Well Error:	0.0 usft
Survey Program: 172-MWD													
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
17,900.0	8,241.0	20,990.0	11,391.3	160.6	162.8	-180.00	-9,447.9	-304.6	3,151.6	2,995.9	155.71	20.240	
18,000.0	8,241.0	21,050.1	11,391.9	162.2	163.8	-179.98	-9,508.0	-303.1	3,153.0	2,996.2	156.83	20.104	
18,100.0	8,241.0	21,321.1	11,390.9	163.9	168.2	-179.86	-9,778.7	-294.6	3,152.1	2,992.0	160.09	19.690	
18,200.0	8,241.0	21,369.0	11,390.2	165.5	168.9	-179.83	-9,826.6	-292.7	3,150.4	2,989.2	161.16	19.548	
18,233.5	8,241.0	21,369.0	11,390.2	166.0	168.9	-179.83	-9,826.6	-292.7	3,150.2	2,988.9	161.35	19.524	
18,300.0	8,241.0	21,407.8	11,390.3	167.1	169.6	-179.80	-9,865.3	-290.7	3,150.5	2,988.4	162.10	19.435	
18,400.0	8,241.0	21,464.0	11,391.3	168.7	170.5	-179.75	-9,921.4	-287.1	3,152.1	2,988.9	163.20	19.315	
18,500.0	8,241.0	21,547.0	11,393.3	170.3	171.8	-179.66	-10,004.2	-281.7	3,154.6	2,990.1	164.57	19.169	
18,541.8	8,241.0	21,547.0	11,393.3	171.0	171.8	-179.66	-10,004.2	-281.7	3,156.1	2,991.4	164.74	19.158	
18,542.4	8,241.0	21,547.0	11,393.3	171.0	171.8	-179.66	-10,004.2	-281.7	3,156.1	2,991.3	164.79	19.152	

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 #102H
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 #102H	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	
0.0	0.0	0.0	0.0	0.0	0.0	-82.63	28.5	-220.2	222.0				
100.0	100.0	101.1	101.1	0.1	0.2	-82.58	28.6	-219.7	221.6	221.3	0.29	774.543	
200.0	200.0	202.6	202.5	0.5	0.4	-82.42	29.1	-218.2	220.2	219.3	0.86	256.277	
300.0	300.0	302.7	302.7	0.8	0.7	-82.27	29.4	-216.5	218.5	217.0	1.57	138.896	
400.0	400.0	402.7	402.6	1.2	1.1	-82.14	29.6	-214.8	216.9	214.6	2.29	94.723	
500.0	500.0	502.8	502.8	1.6	1.4	-82.02	29.9	-213.1	215.2	212.2	3.01	71.567	
600.0	600.0	603.0	602.9	1.9	1.8	-81.96	29.8	-211.2	213.3	209.6	3.72	57.291	
700.0	700.0	701.9	701.8	2.3	2.2	-81.97	29.6	-209.6	211.7	207.2	4.44	47.720	
800.0	800.0	800.5	800.4	2.6	2.5	-81.85	29.9	-208.6	210.7	205.6	5.14	40.967	
900.0	900.0	899.3	899.2	3.0	2.9	-81.61	30.7	-208.1	210.3	204.5	5.85	35.953	
1,000.0	1,000.0	999.8	999.7	3.4	3.2	-81.27	31.9	-207.8	210.2	203.6	6.56	32.036	
1,100.0	1,100.0	1,099.8	1,099.7	3.7	3.6	-80.90	33.2	-207.2	209.8	202.6	7.27	28.850	
1,200.0	1,200.0	1,200.9	1,200.8	4.1	3.9	-80.48	34.6	-206.4	209.3	201.3	7.99	26.187	
1,300.0	1,300.0	1,302.0	1,301.8	4.4	4.3	-80.03	36.0	-204.9	208.1	199.4	8.71	23.891	
1,400.0	1,400.0	1,401.2	1,401.1	4.8	4.6	-79.56	37.5	-203.4	206.9	197.5	9.42	21.952	
1,500.0	1,500.0	1,499.9	1,499.7	5.1	5.0	-79.06	39.2	-202.6	206.3	196.2	10.13	20.359	
1,600.0	1,600.0	1,605.4	1,605.1	5.5	5.4	-77.94	42.7	-199.9	204.5	193.6	10.87	18.813	
1,700.0	1,700.0	1,706.3	1,705.9	5.9	5.7	-76.52	46.9	-195.5	201.2	189.6	11.59	17.360	
1,800.0	1,800.0	1,807.8	1,807.2	6.2	6.1	-75.26	50.2	-191.0	197.7	185.4	12.31	16.056	
1,900.0	1,900.0	1,912.1	1,911.2	6.6	6.5	-73.74	53.8	-184.3	192.4	179.3	13.04	14.755	
2,000.0	2,000.0	2,014.8	2,013.4	6.9	6.9	-71.42	58.8	-175.0	185.2	171.5	13.76	13.460	
2,100.0	2,100.0	2,115.5	2,113.3	7.3	7.3	-68.55	64.6	-164.4	177.2	162.7	14.49	12.228	
2,200.0	2,200.0	2,214.1	2,210.9	7.7	7.6	-64.69	72.3	-152.9	169.5	154.3	15.23	11.130	
2,300.0	2,300.0	2,313.5	2,309.1	8.0	8.0	-59.82	81.8	-140.6	162.9	147.0	15.98	10.195	
2,400.0	2,400.0	2,413.1	2,407.0	8.4	8.4	-53.63	93.1	-126.5	157.3	140.5	16.75	9.387	
2,500.0	2,500.0	2,510.8	2,502.9	8.7	8.8	-46.84	104.9	-111.8	153.4	135.8	17.53	8.748	
2,600.0	2,600.0	2,609.4	2,599.8	9.1	9.2	-40.15	116.1	-97.9	151.9	133.6	18.31	8.295	
2,635.0	2,635.0	2,644.1	2,634.0	9.2	9.4	-37.93	119.7	-93.3	151.8	133.2	18.58	8.169 CC	
2,700.0	2,700.0	2,708.5	2,697.7	9.4	9.6	-33.99	126.1	-85.0	152.1	133.0	19.08	7.970 ES	
2,800.0	2,800.0	2,806.0	2,793.8	9.8	10.0	-27.87	136.3	-72.0	154.2	134.4	19.83	7.776	
2,900.0	2,900.0	2,904.2	2,890.4	10.2	10.4	-21.73	147.2	-58.7	158.7	138.1	20.58	7.709 SF	
3,000.0	3,000.0	3,002.7	2,987.5	10.5	10.9	-16.27	157.9	-46.1	164.9	143.6	21.31	7.736	
3,100.0	3,100.0	3,101.3	3,084.7	10.9	11.3	32.62	168.7	-33.3	171.8	149.8	22.04	7.796	
3,200.0	3,200.0	3,199.8	3,181.7	11.2	11.7	37.80	179.4	-20.3	178.6	155.8	22.74	7.852	
3,300.0	3,299.9	3,297.2	3,277.5	11.6	12.1	43.07	190.4	-6.8	185.9	162.5	23.42	7.938	
3,400.0	3,399.7	3,396.6	3,375.3	11.9	12.5	48.33	201.6	6.9	193.7	169.6	24.12	8.030	
3,500.0	3,499.4	3,496.9	3,474.1	12.3	13.0	53.64	211.7	20.7	200.7	175.9	24.82	8.085	
3,600.0	3,598.9	3,594.8	3,570.5	12.7	13.4	59.40	220.7	36.1	208.0	182.6	25.48	8.166	
3,700.0	3,698.3	3,693.2	3,667.2	13.0	13.8	65.23	229.3	51.8	216.5	190.4	26.14	8.283	
3,800.0	3,797.4	3,789.8	3,762.3	13.4	14.3	70.75	237.5	66.5	226.0	199.2	26.78	8.441	
3,900.0	3,896.4	3,885.1	3,856.1	13.8	14.7	76.06	246.1	81.7	238.1	210.7	27.40	8.688	
4,000.0	3,995.5	3,982.1	3,951.5	14.1	15.1	80.76	255.5	96.6	252.4	224.3	28.07	8.991	
4,100.0	4,094.5	4,081.7	4,049.6	14.5	15.5	84.40	266.7	109.3	267.6	238.8	28.80	9.292	
4,200.0	4,193.5	4,177.6	4,144.2	14.9	15.9	87.28	278.1	120.3	283.3	253.8	29.48	9.611	
4,300.0	4,292.5	4,270.8	4,235.9	15.2	16.3	89.79	289.9	131.8	300.9	270.7	30.12	9.988	
4,400.0	4,391.6	4,367.5	4,330.8	15.6	16.8	92.11	302.9	144.6	320.0	289.2	30.83	10.379	
4,500.0	4,490.6	4,462.9	4,424.5	16.0	17.2	94.06	316.1	157.0	339.8	308.3	31.53	10.776	
4,600.0	4,589.6	4,560.9	4,520.6	16.4	17.6	95.77	330.4	169.7	360.3	328.0	32.28	11.160	
4,700.0	4,688.6	4,659.3	4,617.2	16.8	18.1	97.37	344.1	182.4	380.7	347.7	33.04	11.523	
4,800.0	4,787.7	4,757.4	4,713.6	17.2	18.5	99.00	356.6	195.7	401.2	367.4	33.80	11.871	
4,900.0	4,886.7	4,854.9	4,809.4	17.6	19.0	100.58	368.1	209.3	421.9	387.3	34.55	12.210	
5,000.0	4,985.7	4,968.9	4,922.0	17.9	19.5	102.47	378.9	224.0	440.7	405.2	35.50	12.413	

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 #102H
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 #102H	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	5,084.8	5,073.7	5,025.8	18.3	19.9	104.22	386.7	236.1	457.7	421.4	36.32	12.601	
5,200.0	5,183.8	5,189.1	5,140.5	18.7	20.3	106.06	393.2	246.9	472.3	435.1	37.21	12.694	
5,300.0	5,282.8	5,308.1	5,259.2	19.1	20.8	107.91	397.2	254.0	483.3	445.3	38.06	12.700	
5,400.0	5,381.8	5,417.1	5,368.2	19.5	21.2	109.46	399.9	256.9	491.3	452.5	38.83	12.653	
5,500.0	5,480.9	5,521.9	5,472.9	19.9	21.5	110.95	401.5	258.5	498.2	458.6	39.59	12.585	
5,600.0	5,579.9	5,626.5	5,577.5	20.3	21.8	112.53	401.6	259.2	504.1	463.7	40.33	12.499	
5,700.0	5,678.9	5,726.9	5,677.9	20.7	22.1	114.00	401.6	259.6	510.0	468.9	41.06	12.419	
5,800.0	5,777.9	5,833.2	5,784.2	21.1	22.5	115.54	401.0	258.9	515.0	473.2	41.78	12.325	
5,900.0	5,877.0	5,933.4	5,884.4	21.5	22.8	116.97	400.1	257.5	519.6	477.1	42.49	12.226	
6,000.0	5,976.0	6,032.3	5,983.2	21.9	23.0	118.40	398.9	256.2	524.5	481.3	43.21	12.139	
6,100.0	6,075.0	6,131.1	6,082.1	22.3	23.3	119.82	397.5	255.0	529.7	485.8	43.92	12.060	
6,200.0	6,174.0	6,228.3	6,179.2	22.7	23.6	121.20	396.1	253.9	535.5	490.8	44.64	11.996	
6,300.0	6,273.1	6,325.9	6,276.8	23.1	23.9	122.53	394.9	253.2	541.9	496.5	45.36	11.948	
6,400.0	6,372.1	6,426.9	6,377.9	23.5	24.2	123.89	393.6	252.4	548.6	502.5	46.07	11.907	
6,500.0	6,471.1	6,524.4	6,475.3	23.9	24.5	125.17	392.4	251.5	555.4	508.6	46.79	11.870	
6,600.0	6,570.2	6,621.6	6,572.5	24.3	24.8	126.40	391.2	250.9	562.8	515.3	47.50	11.848	
6,700.0	6,669.2	6,721.0	6,671.8	24.7	25.1	127.64	390.0	250.4	570.6	522.4	48.22	11.835	
6,800.0	6,768.2	6,823.6	6,774.5	25.1	25.4	128.90	388.5	249.6	578.4	529.4	48.93	11.819	
6,878.7	6,846.2	6,900.2	6,851.0	25.4	25.6	129.82	387.4	248.8	584.5	535.0	49.49	11.809	
6,900.0	6,867.2	6,921.2	6,872.1	25.5	25.7	130.09	387.0	248.6	586.2	536.5	49.65	11.807	
7,000.0	6,966.5	7,022.5	6,973.3	25.9	26.0	131.22	385.4	247.5	592.9	542.5	50.35	11.774	
7,100.0	7,066.1	7,121.1	7,071.9	26.3	26.3	132.09	383.9	246.4	597.9	546.9	51.05	11.713	
7,200.0	7,165.8	7,220.8	7,171.6	26.7	26.6	132.73	382.6	245.3	601.4	549.7	51.74	11.624	
7,300.0	7,265.7	7,321.4	7,272.2	27.0	26.9	133.15	381.5	244.1	603.2	550.7	52.42	11.505	
7,400.0	7,365.7	7,421.6	7,372.4	27.4	27.2	133.37	380.4	242.8	603.0	549.9	53.10	11.356	
7,412.1	7,377.8	7,433.6	7,384.4	27.4	27.3	89.70	380.3	242.7	602.8	549.7	53.18	11.336	
7,500.0	7,465.7	7,519.8	7,470.5	27.7	27.5	89.80	379.2	241.7	601.8	548.1	53.77	11.193	
7,600.0	7,565.7	7,618.2	7,568.9	28.1	27.9	89.93	377.8	240.9	601.0	546.6	54.44	11.041	
7,702.3	7,668.0	7,721.2	7,671.9	28.4	28.2	90.09	376.1	240.2	600.3	545.2	55.13	10.890	
7,750.0	7,715.7	7,769.4	7,720.1	28.6	28.3	-91.46	375.3	239.7	599.9	544.5	55.43	10.822	
7,800.0	7,765.2	7,819.0	7,769.7	28.7	28.5	-92.01	374.5	239.3	599.7	543.9	55.73	10.759	
7,826.6	7,791.3	7,845.1	7,795.8	28.8	28.6	-92.45	374.0	239.1	599.6	543.7	55.88	10.730	
7,850.0	7,814.1	7,867.5	7,818.2	28.8	28.6	-92.91	373.6	238.9	599.7	543.7	56.02	10.706	
7,900.0	7,861.8	7,914.4	7,865.1	28.9	28.8	-94.11	372.8	238.5	600.2	543.9	56.28	10.665	
7,950.0	7,908.1	7,960.2	7,910.9	29.0	28.9	-95.55	372.0	238.3	601.6	545.1	56.52	10.644	
8,000.0	7,952.5	8,004.9	7,955.5	29.1	29.1	-97.16	371.1	238.1	604.1	547.3	56.75	10.645	
8,050.0	7,994.8	8,047.3	7,998.0	29.2	29.2	-98.82	370.1	237.9	608.1	551.1	56.96	10.676	
8,100.0	8,034.5	8,086.7	8,037.4	29.3	29.3	-100.39	369.3	237.8	614.0	556.8	57.15	10.744	
8,150.0	8,071.5	8,123.3	8,074.0	29.3	29.5	-101.79	368.6	237.7	622.2	564.9	57.32	10.856	
8,200.0	8,105.4	8,156.9	8,107.6	29.3	29.6	-102.91	368.1	237.7	633.2	575.7	57.48	11.017	
8,250.0	8,136.0	8,187.3	8,137.9	29.4	29.7	-103.65	367.6	237.7	647.2	589.5	57.62	11.232	
8,300.0	8,163.0	8,214.1	8,164.7	29.4	29.7	-103.89	367.2	237.8	664.2	606.5	57.74	11.504	
8,350.0	8,186.3	8,237.7	8,188.4	29.4	29.8	-103.61	366.9	237.8	684.6	626.7	57.85	11.833	
8,400.0	8,205.6	8,257.8	8,208.4	29.4	29.9	-102.68	366.6	237.9	708.1	650.1	57.95	12.219	
8,450.0	8,220.8	8,273.7	8,224.3	29.4	29.9	-101.00	366.4	237.9	734.5	676.5	58.02	12.660	
8,500.0	8,231.9	8,285.3	8,236.0	29.4	30.0	-98.50	366.3	237.9	763.8	705.7	58.07	13.152	
8,550.0	8,238.6	8,292.7	8,243.3	29.5	30.0	-95.11	366.2	237.9	795.5	737.4	58.11	13.690	
8,602.3	8,241.0	8,295.8	8,246.4	29.7	30.0	-90.62	366.1	237.9	830.8	772.7	58.12	14.294	
8,694.2	8,241.0	8,296.9	8,247.5	30.0	30.0	-90.70	366.1	237.9	896.1	838.0	58.14	15.412	
8,700.0	8,241.0	8,297.0	8,247.6	30.0	30.0	-90.71	366.1	237.9	900.3	842.1	58.14	15.484	
8,800.0	8,241.0	8,298.2	8,248.9	30.4	30.0	-90.83	366.1	237.9	975.4	917.3	58.18	16.765	
8,900.0	8,241.0	8,299.5	8,250.1	30.9	30.0	-90.94	366.1	237.9	1,054.7	996.5	58.23	18.113	

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 #102H
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 #102H	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									
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
9,000.0	8,241.0	8,300.7	8,251.3	31.5	30.0	-91.06	366.1	237.9	1,137.3	1,079.0	58.28	19.513	
9,100.0	8,241.0	8,302.0	8,252.6	32.1	30.0	-91.17	366.0	237.9	1,222.4	1,164.1	58.33	20.955	
9,200.0	8,241.0	8,303.2	8,253.8	32.8	30.0	-91.29	366.0	237.9	1,309.7	1,251.3	58.39	22.431	
9,300.0	8,241.0	8,304.4	8,255.0	33.6	30.0	-91.40	366.0	237.9	1,398.7	1,340.2	58.44	23.934	
9,400.0	8,241.0	8,305.6	8,256.3	34.4	30.0	-91.51	366.0	237.9	1,489.0	1,430.5	58.49	25.459	
9,500.0	8,241.0	8,306.9	8,257.5	35.3	30.0	-91.63	366.0	237.9	1,580.5	1,522.0	58.53	27.002	
9,600.0	8,241.0	8,308.1	8,258.7	36.3	30.1	-91.74	366.0	237.9	1,673.0	1,614.5	58.58	28.560	
9,700.0	8,241.0	8,309.3	8,259.9	37.2	30.1	-91.85	366.0	237.9	1,766.3	1,707.7	58.62	30.130	
9,800.0	8,241.0	8,310.5	8,261.1	38.3	30.1	-91.96	365.9	237.9	1,860.4	1,801.7	58.67	31.710	
9,900.0	8,241.0	8,311.7	8,262.3	39.3	30.1	-92.07	365.9	237.9	1,955.0	1,896.2	58.71	33.298	
10,000.0	8,241.0	8,312.9	8,263.5	40.5	30.1	-92.19	365.9	237.9	2,050.1	1,991.3	58.75	34.894	
10,100.0	8,241.0	8,314.1	8,264.7	41.6	30.1	-92.30	365.9	237.9	2,145.6	2,086.8	58.79	36.495	
10,200.0	8,241.0	8,315.3	8,265.9	42.8	30.1	-92.41	365.9	237.9	2,241.6	2,182.7	58.83	38.101	
10,300.0	8,241.0	8,316.5	8,267.1	44.0	30.1	-92.52	365.9	237.9	2,337.8	2,279.0	58.87	39.711	
10,400.0	8,241.0	8,317.7	8,268.3	45.2	30.1	-92.63	365.8	237.9	2,434.4	2,375.5	58.91	41.324	
10,500.0	8,241.0	8,318.9	8,269.5	46.5	30.1	-92.74	365.8	237.9	2,531.3	2,472.3	58.95	42.939	
10,600.0	8,241.0	8,320.0	8,270.7	47.8	30.1	-92.85	365.8	237.9	2,628.4	2,569.4	58.99	44.557	
10,700.0	8,241.0	8,321.2	8,271.8	49.1	30.1	-92.95	365.8	237.9	2,725.6	2,666.6	59.03	46.176	
10,800.0	8,241.0	8,322.4	8,273.0	50.4	30.1	-93.06	365.8	237.9	2,823.1	2,764.1	59.07	47.796	
10,900.0	8,241.0	8,322.0	8,272.6	51.7	30.1	-93.02	365.8	237.9	2,920.8	2,861.7	59.10	49.419	
11,000.0	8,241.0	8,322.8	8,273.5	53.1	30.1	-93.10	365.8	237.9	3,018.6	2,959.4	59.14	51.041	
11,100.0	8,241.0	8,323.7	8,274.3	54.5	30.1	-93.18	365.8	237.9	3,116.5	3,057.3	59.18	52.662	
11,200.0	8,241.0	8,324.5	8,275.2	55.9	30.1	-93.26	365.8	237.9	3,214.6	3,155.4	59.22	54.284	
11,300.0	8,241.0	8,325.4	8,276.0	57.3	30.1	-93.34	365.8	237.9	3,312.8	3,253.5	59.26	55.904	
11,400.0	8,241.0	8,326.2	8,276.8	58.7	30.1	-93.41	365.8	237.9	3,411.1	3,351.8	59.30	57.524	
11,500.0	8,241.0	8,327.0	8,277.6	60.1	30.1	-93.49	365.7	237.9	3,509.5	3,450.1	59.34	59.143	
11,600.0	8,241.0	8,327.8	8,278.4	61.6	30.1	-93.56	365.7	237.9	3,607.9	3,548.6	59.38	60.761	
11,700.0	8,241.0	15,383.8	11,848.6	63.0	72.5	-169.98	-3,445.2	286.8	3,667.9	3,600.3	67.59	54.266	
11,800.0	8,241.0	15,441.0	11,846.8	64.5	73.3	-169.97	-3,502.3	287.9	3,664.6	3,595.9	68.71	53.336	
11,900.0	8,241.0	15,462.9	11,846.5	66.0	73.6	-169.96	-3,524.2	288.3	3,662.8	3,593.2	69.53	52.681	
11,971.4	8,241.0	15,498.5	11,846.3	67.0	74.1	-169.96	-3,559.8	288.8	3,662.4	3,592.1	70.29	52.107	
12,000.0	8,241.0	15,512.8	11,846.3	67.4	74.3	-169.96	-3,574.1	289.1	3,662.5	3,591.9	70.59	51.882	
12,100.0	8,241.0	15,563.1	11,846.7	68.9	75.0	-169.95	-3,624.4	289.9	3,663.5	3,591.9	71.66	51.121	
12,200.0	8,241.0	15,630.0	11,848.4	70.4	75.9	-169.95	-3,691.2	290.9	3,666.0	3,593.1	72.88	50.303	
12,300.0	8,241.0	15,682.3	11,850.4	71.9	76.6	-169.95	-3,743.5	291.6	3,669.5	3,595.6	73.97	49.609	
12,400.0	8,241.0	15,825.0	11,855.5	73.4	78.6	-169.94	-3,886.1	293.9	3,673.4	3,597.5	75.86	48.425	
12,500.0	8,241.0	16,133.6	11,856.4	74.9	83.0	-169.89	-4,194.5	299.9	3,675.0	3,595.7	79.24	46.375	
12,600.0	8,241.0	16,193.0	11,856.0	76.4	83.9	-169.90	-4,253.9	299.3	3,673.4	3,593.0	80.40	45.687	
12,700.0	8,241.0	16,193.0	11,856.0	78.0	83.9	-169.90	-4,253.9	299.3	3,673.0	3,592.0	81.05	45.318	
12,716.1	8,241.0	12,716.1	11,856.1	78.2	41.7	-169.93	-4,310.5	298.4	3,672.8	3,617.4	55.40	66.301	
12,800.0	8,241.0	16,328.6	11,856.1	79.5	85.8	-169.95	-4,389.5	297.1	3,672.4	3,589.6	82.86	44.319	
12,802.0	8,241.0	16,329.5	11,856.1	79.5	85.8	-169.96	-4,390.4	297.1	3,672.4	3,589.5	82.88	44.308	
12,900.0	8,241.0	16,383.0	11,856.7	81.0	86.6	-169.97	-4,443.9	296.8	3,673.2	3,589.2	83.98	43.737	
13,000.0	8,241.0	16,505.4	11,858.3	82.6	88.4	-169.97	-4,566.2	297.6	3,674.5	3,588.8	85.72	42.866	
13,085.3	8,241.0	16,612.8	11,858.1	83.9	89.9	-169.96	-4,673.7	299.3	3,674.4	3,587.1	87.25	42.113	
13,100.0	8,241.0	16,622.9	11,858.1	84.1	90.1	-169.96	-4,683.7	299.5	3,674.4	3,587.0	87.44	42.024	
13,200.0	8,241.0	16,787.9	11,857.3	85.6	92.5	-169.94	-4,848.7	301.9	3,674.3	3,584.7	89.58	41.015	
13,300.0	8,241.0	16,976.9	11,851.9	87.2	95.3	-169.95	-5,037.7	301.5	3,671.2	3,579.3	91.91	39.944	
13,400.0	8,241.0	17,045.0	11,849.9	88.7	96.3	-169.97	-5,105.7	300.6	3,667.9	3,574.7	93.17	39.367	
13,500.0	8,241.0	17,074.8	11,849.5	90.3	96.7	-169.98	-5,135.5	300.3	3,665.8	3,571.7	94.10	38.957	
13,600.0	8,241.0	17,140.0	11,849.5	91.9	97.7	-169.99	-5,200.7	299.9	3,665.4	3,570.0	95.33	38.448	
13,612.3	8,241.0	17,140.0	11,849.5	92.1	97.7	-169.99	-5,200.7	299.9	3,665.3	3,569.9	95.41	38.415	

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 #102H
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 #102H	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	
13,700.0	8,241.0	17,226.6	11,850.0	93.4	99.0	-170.00	-5,287.3	300.0	3,665.7	3,569.0	96.77	37.881	
13,800.0	8,241.0	17,329.6	11,849.9	95.0	100.5	-169.99	-5,390.3	301.5	3,665.7	3,567.3	98.37	37.263	
13,806.9	8,241.0	17,336.5	11,849.8	95.1	100.7	-169.99	-5,397.2	301.7	3,665.7	3,567.2	98.48	37.222	
13,900.0	8,241.0	17,397.1	11,850.1	96.6	101.6	-169.98	-5,457.8	302.4	3,666.1	3,566.4	99.65	36.791	
14,000.0	8,241.0	17,550.1	11,850.2	98.1	103.9	-170.03	-5,610.8	300.3	3,665.6	3,563.9	101.66	36.056	
14,041.6	8,241.0	17,569.3	11,850.2	98.8	104.2	-170.04	-5,630.0	300.0	3,665.5	3,563.4	102.10	35.899	
14,100.0	8,241.0	17,609.0	11,850.6	99.7	104.8	-170.05	-5,669.6	299.6	3,665.8	3,562.9	102.84	35.646	
14,200.0	8,241.0	17,680.3	11,851.7	101.3	105.8	-170.07	-5,741.0	299.3	3,666.9	3,562.8	104.13	35.215	
14,300.0	8,241.0	17,768.0	11,852.9	102.9	107.2	-170.07	-5,828.6	299.9	3,668.4	3,562.8	105.59	34.742	
14,400.0	8,241.0	17,842.9	11,854.2	104.4	108.3	-170.06	-5,903.5	301.6	3,670.3	3,563.4	106.94	34.321	
14,500.0	8,241.0	18,309.1	11,842.8	106.0	115.5	-170.02	-6,369.0	305.7	3,669.0	3,557.2	111.80	32.818	
14,600.0	8,241.0	18,439.5	11,833.7	107.6	117.5	-170.06	-6,499.0	302.4	3,661.6	3,548.0	113.57	32.240	
14,700.0	8,241.0	18,510.1	11,828.1	109.2	118.5	-170.09	-6,569.4	300.3	3,653.4	3,538.5	114.90	31.797	
14,800.0	8,241.0	18,594.2	11,822.4	110.8	119.8	-170.10	-6,653.3	298.9	3,646.1	3,529.8	116.33	31.342	
14,900.0	8,241.0	18,676.3	11,816.4	112.4	121.1	-170.10	-6,735.2	298.5	3,638.8	3,521.1	117.77	30.898	
15,000.0	8,241.0	18,736.0	11,812.7	114.0	122.0	-170.09	-6,794.8	299.0	3,632.7	3,513.7	119.03	30.518	
15,100.0	8,241.0	18,819.6	11,808.1	115.6	123.3	-170.07	-6,878.2	300.6	3,627.4	3,506.9	120.51	30.099	
15,200.0	8,241.0	18,866.9	11,805.7	117.1	124.1	-170.05	-6,925.4	301.8	3,622.8	3,501.1	121.67	29.774	
15,300.0	8,241.0	18,924.0	11,803.9	118.7	125.0	-170.02	-6,982.5	303.7	3,619.9	3,497.0	122.92	29.449	
15,400.0	8,241.0	19,053.4	11,799.9	120.3	127.0	-169.95	-7,111.7	308.6	3,617.5	3,492.7	124.85	28.974	
15,500.0	8,241.0	19,241.9	11,788.6	121.9	130.0	-169.77	-7,299.6	319.2	3,612.1	3,484.7	127.40	28.353	
15,600.0	8,241.0	19,300.0	11,784.9	123.5	130.9	-169.71	-7,357.5	322.8	3,606.8	3,478.1	128.71	28.022	
15,700.0	8,241.0	19,491.5	11,772.9	125.1	133.9	-169.61	-7,548.5	328.4	3,601.2	3,470.0	131.17	27.454	
15,800.0	8,241.0	19,582.0	11,765.8	126.7	135.3	-169.59	-7,638.7	329.1	3,593.5	3,460.8	132.72	27.075	
15,900.0	8,241.0	19,629.3	11,762.3	128.3	136.1	-169.57	-7,685.9	330.1	3,586.9	3,453.0	133.93	26.782	
16,000.0	8,241.0	19,677.0	11,760.1	129.9	136.8	-169.55	-7,733.5	331.6	3,582.5	3,447.3	135.13	26.512	
16,100.0	8,241.0	19,703.8	11,759.3	131.6	137.2	-169.53	-7,760.2	332.5	3,579.6	3,443.5	136.10	26.300	
16,200.0	8,241.0	19,772.0	11,758.4	133.2	138.3	-169.51	-7,828.4	334.1	3,578.4	3,440.9	137.45	26.034	
16,300.0	8,241.0	19,994.8	11,751.5	134.8	141.8	-169.55	-8,051.0	332.3	3,574.4	3,434.3	140.11	25.512	
16,400.0	8,241.0	20,055.0	11,750.0	136.4	142.7	-169.55	-8,111.2	332.2	3,571.3	3,429.9	141.37	25.261	
16,500.0	8,241.0	20,055.0	11,750.0	138.0	142.7	-169.55	-8,111.2	332.2	3,569.2	3,427.1	142.08	25.122	
16,554.8	8,241.0	20,086.8	11,749.8	138.9	143.3	-169.55	-8,143.0	332.7	3,569.0	3,426.3	142.75	25.002	
16,600.0	8,241.0	20,113.2	11,749.8	139.6	143.7	-169.54	-8,169.4	333.3	3,569.2	3,425.9	143.30	24.906	
16,700.0	8,241.0	20,244.0	11,749.2	141.2	145.7	-169.47	-8,300.1	338.8	3,569.4	3,424.0	145.32	24.562	
16,744.7	8,241.0	20,277.2	11,748.7	141.9	146.3	-169.45	-8,333.2	340.4	3,569.1	3,423.1	145.96	24.452	
16,800.0	8,241.0	20,299.2	11,748.7	142.8	146.6	-169.44	-8,355.2	341.3	3,569.4	3,422.8	146.55	24.356	
16,900.0	8,241.0	20,339.2	11,749.2	144.4	147.3	-169.42	-8,395.2	342.6	3,571.1	3,423.5	147.57	24.199	
17,000.0	8,241.0	20,436.4	11,751.8	146.1	148.8	-169.42	-8,492.3	343.7	3,573.8	3,424.6	149.16	23.959	
17,100.0	8,241.0	20,623.0	11,755.8	147.7	151.7	-169.54	-8,678.8	338.3	3,575.1	3,423.6	151.50	23.598	
17,200.0	8,241.0	20,674.5	11,756.7	149.3	152.6	-169.60	-8,730.2	335.2	3,575.9	3,423.3	152.55	23.440	
17,300.0	8,241.0	20,907.0	11,755.1	150.9	156.2	-169.68	-8,962.5	332.0	3,573.7	3,418.3	155.35	23.004	
17,400.0	8,241.0	20,960.3	11,753.8	152.5	157.1	-169.65	-9,015.7	333.8	3,572.0	3,415.5	156.57	22.814	
17,441.1	8,241.0	20,977.5	11,753.6	153.2	157.4	-169.64	-9,032.9	334.5	3,571.9	3,414.8	157.02	22.747	
17,500.0	8,241.0	21,002.5	11,753.6	154.1	157.8	-169.62	-9,057.9	335.6	3,572.1	3,414.4	157.66	22.656	
17,600.0	8,241.0	21,117.6	11,753.6	155.8	159.6	-169.57	-9,172.8	339.9	3,572.7	3,413.2	159.52	22.397	
17,700.0	8,241.0	21,365.4	11,748.1	157.4	163.6	-169.52	-9,420.5	344.0	3,570.1	3,407.5	162.57	21.960	
17,800.0	8,241.0	21,412.6	11,746.4	159.0	164.3	-169.50	-9,467.7	345.7	3,567.0	3,403.2	163.78	21.780	
17,900.0	8,241.0	21,477.0	11,745.2	160.6	165.3	-169.44	-9,531.9	349.3	3,565.8	3,400.7	165.16	21.591	
17,943.8	8,241.0	21,477.0	11,745.2	161.3	165.3	-169.44	-9,531.9	349.3	3,565.5	3,400.1	165.45	21.551	
18,000.0	8,241.0	21,544.0	11,744.5	162.2	166.4	-169.38	-9,598.8	353.6	3,565.6	3,399.0	166.57	21.406	
18,069.2	8,241.0	21,602.5	11,743.7	163.4	167.4	-169.33	-9,657.2	357.2	3,565.4	3,397.7	167.67	21.264	
18,100.0	8,241.0	21,621.0	11,743.5	163.9	167.7	-169.31	-9,675.7	358.4	3,565.4	3,397.3	168.08	21.213	

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 #102H
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 #102H	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	
18,200.0	8,241.0	21,666.0	11,743.4	165.5	168.4	-169.27	-9,720.5	361.5	3,566.4	3,397.2	169.22	21.075	
18,300.0	8,241.0	21,950.0	11,740.3	167.1	173.0	-168.97	-10,003.7	382.1	3,568.1	3,395.0	173.10	20.613	
18,400.0	8,241.0	21,950.0	11,740.3	168.7	173.0	-168.97	-10,003.7	382.1	3,566.3	3,392.4	173.83	20.516	
18,415.8	8,241.0	21,950.0	11,740.3	169.0	173.0	-168.97	-10,003.7	382.1	3,566.2	3,392.3	173.93	20.504	
18,500.0	8,241.0	21,950.0	11,740.3	170.3	173.0	-168.97	-10,003.7	382.1	3,567.2	3,392.8	174.45	20.449	
18,541.8	8,241.0	21,950.0	11,740.3	171.0	173.0	-168.97	-10,003.7	382.1	3,568.4	3,393.8	174.68	20.429	
18,542.4	8,241.0	21,950.0	11,740.3	171.0	173.0	-168.97	-10,003.7	382.1	3,568.5	3,393.8	174.72	20.424	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Boros Federal #102H
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 #102H	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	-81.41	28.7	-190.3	192.4				
100.0	100.0	101.0	99.0	0.1	0.1	-81.41	28.7	-190.3	192.4	192.1	0.26	740.336	
200.0	200.0	201.0	199.0	0.5	0.5	-81.41	28.7	-190.3	192.4	191.4	0.98	196.970	
300.0	300.0	301.0	299.0	0.8	0.8	-81.41	28.7	-190.3	192.4	190.7	1.69	113.597	
400.0	400.0	401.0	399.0	1.2	1.2	-81.41	28.7	-190.3	192.4	190.0	2.41	79.813	
500.0	500.0	501.0	499.0	1.6	1.6	-81.41	28.7	-190.3	192.4	189.3	3.13	61.518	
600.0	600.0	601.0	599.0	1.9	1.9	-81.41	28.7	-190.3	192.4	188.6	3.84	50.046	
700.0	700.0	701.0	699.0	2.3	2.3	-81.41	28.7	-190.3	192.4	187.8	4.56	42.180	
800.0	800.0	801.0	799.0	2.6	2.6	-81.41	28.7	-190.3	192.4	187.1	5.28	36.451	
900.0	900.0	901.0	899.0	3.0	3.0	-81.41	28.7	-190.3	192.4	186.4	6.00	32.092	
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	-81.41	28.7	-190.3	192.4	185.7	6.71	28.665	
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	-81.41	28.7	-190.3	192.4	185.0	7.43	25.898	
1,200.0	1,200.0	1,201.0	1,199.0	4.1	4.1	-81.41	28.7	-190.3	192.4	184.3	8.15	23.619	
1,300.0	1,300.0	1,301.0	1,299.0	4.4	4.4	-81.41	28.7	-190.3	192.4	183.5	8.86	21.709	
1,400.0	1,400.0	1,401.0	1,399.0	4.8	4.8	-81.41	28.7	-190.3	192.4	182.8	9.58	20.084	
1,500.0	1,500.0	1,499.0	1,499.0	5.1	5.1	-81.41	28.7	-190.3	192.4	182.1	10.29	18.699	
1,600.0	1,600.0	1,596.5	1,596.5	5.5	5.5	-81.26	29.3	-190.8	193.1	182.1	10.99	17.559	
1,700.0	1,700.0	1,693.9	1,693.8	5.9	5.8	-80.81	31.1	-192.5	195.0	183.3	11.70	16.676	
1,800.0	1,800.0	1,791.1	1,791.0	6.2	6.2	-80.07	34.2	-195.2	198.4	186.0	12.39	16.005	
1,900.0	1,900.0	1,888.3	1,888.0	6.6	6.5	-79.07	38.4	-199.1	203.1	190.0	13.09	15.516	
2,000.0	2,000.0	1,985.2	1,984.6	6.9	6.9	-77.86	43.9	-204.1	209.3	195.5	13.78	15.184	
2,100.0	2,100.0	2,081.8	2,080.8	7.3	7.2	-76.48	50.5	-210.1	216.9	202.4	14.47	14.991	
2,200.0	2,200.0	2,178.0	2,176.5	7.7	7.6	-74.97	58.3	-217.3	226.1	210.9	15.15	14.921	
2,300.0	2,300.0	2,273.9	2,271.6	8.0	7.9	-73.38	67.3	-225.4	236.8	221.0	15.83	14.962	
2,400.0	2,400.0	2,372.0	2,368.7	8.4	8.3	-71.76	77.3	-234.6	248.9	232.3	16.53	15.055	
2,500.0	2,500.0	2,471.1	2,466.8	8.7	8.7	-70.26	87.5	-243.9	261.1	243.9	17.24	15.145	
2,600.0	2,600.0	2,570.1	2,564.9	9.1	9.1	-68.90	97.7	-253.2	273.5	255.6	17.95	15.235	
2,700.0	2,700.0	2,669.1	2,662.9	9.4	9.4	-67.66	107.9	-262.5	286.0	267.4	18.66	15.325	
2,800.0	2,800.0	2,768.2	2,761.0	9.8	9.8	-66.52	118.0	-271.8	298.7	279.3	19.38	15.415	
2,900.0	2,900.0	2,867.2	2,859.1	10.2	10.2	-65.48	128.2	-281.0	311.5	291.4	20.09	15.502	
3,000.0	3,000.0	2,966.2	2,957.1	10.5	10.6	-64.51	138.4	-290.3	324.4	303.5	20.81	15.588	
3,100.0	3,100.0	3,065.4	3,055.3	10.9	11.0	-19.95	148.6	-299.6	336.5	315.0	21.52	15.635	
3,200.0	3,200.0	3,164.7	3,153.7	11.2	11.4	-19.23	158.8	-309.0	347.1	324.8	22.23	15.609	
3,300.0	3,299.9	3,264.2	3,252.3	11.6	11.8	-18.64	169.0	-318.3	356.0	333.1	22.95	15.513	
3,400.0	3,399.7	3,363.9	3,351.0	11.9	12.2	-18.18	179.3	-327.6	363.4	339.7	23.67	15.354	
3,500.0	3,499.4	3,463.7	3,449.8	12.3	12.6	-17.82	189.6	-337.0	369.1	344.7	24.38	15.135	
3,600.0	3,598.9	3,563.7	3,548.8	12.7	13.0	-17.56	199.8	-346.4	373.1	348.0	25.11	14.862	
3,700.0	3,698.3	3,663.6	3,647.7	13.0	13.4	-17.38	210.1	-355.8	375.5	349.7	25.83	14.539	
3,800.0	3,797.4	3,763.6	3,746.8	13.4	13.8	-17.29	220.4	-365.1	376.3	349.7	26.55	14.171	
3,900.0	3,896.4	3,863.6	3,845.8	13.8	14.2	-17.25	230.7	-374.5	376.2	348.9	27.28	13.790	
4,000.0	3,995.5	3,963.6	3,944.8	14.1	14.6	-17.20	240.9	-383.9	376.1	348.1	28.00	13.429	
4,100.0	4,094.5	4,063.6	4,043.8	14.5	15.0	-17.16	251.2	-393.3	376.0	347.2	28.73	13.086	
4,200.0	4,193.5	4,163.6	4,142.9	14.9	15.4	-17.11	261.5	-402.7	375.9	346.4	29.46	12.759	
4,300.0	4,292.5	4,263.6	4,241.9	15.2	15.8	-17.06	271.8	-412.0	375.8	345.6	30.19	12.447	
4,400.0	4,391.6	4,363.6	4,340.9	15.6	16.2	-17.02	282.1	-421.4	375.7	344.8	30.92	12.150	
4,500.0	4,490.6	4,463.6	4,440.0	16.0	16.6	-16.97	292.3	-430.8	375.6	343.9	31.65	11.866	
4,600.0	4,589.6	4,563.6	4,539.0	16.4	17.1	-16.93	302.6	-440.2	375.5	343.1	32.38	11.594	
4,700.0	4,688.6	4,663.6	4,638.0	16.8	17.5	-16.88	312.9	-449.6	375.4	342.3	33.12	11.335	
4,800.0	4,787.7	4,763.6	4,737.0	17.2	17.9	-16.83	323.2	-459.0	375.3	341.4	33.85	11.086	
4,900.0	4,886.7	4,863.6	4,836.1	17.6	18.3	-16.79	333.5	-468.3	375.2	340.6	34.59	10.848	
5,000.0	4,985.7	4,963.6	4,935.1	17.9	18.7	-16.74	343.7	-477.7	375.1	339.8	35.32	10.620	
5,100.0	5,084.8	5,068.1	5,038.6	18.3	19.1	-16.71	354.3	-487.3	374.8	338.7	36.10	10.381	

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 #102H
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 #102H	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	5,183.8	5,178.3	5,148.1	18.7	19.6	-16.80	363.4	-495.7	372.1	335.2	36.91	10.080	
5,300.0	5,282.8	5,288.2	5,257.6	19.1	20.0	-17.04	370.2	-501.9	366.7	329.0	37.70	9.728	
5,400.0	5,381.8	5,397.7	5,367.0	19.5	20.4	-17.46	374.7	-506.0	358.6	320.2	38.45	9.328	
5,500.0	5,480.9	5,506.6	5,475.8	19.9	20.8	-18.06	376.8	-507.9	347.8	308.7	39.16	8.882	
5,600.0	5,579.9	5,609.7	5,578.9	20.3	21.1	-18.81	377.0	-508.1	334.9	295.0	39.87	8.399	
5,700.0	5,678.9	5,708.7	5,677.9	20.7	21.4	-19.61	377.0	-508.1	321.7	281.1	40.59	7.926	
5,800.0	5,777.9	5,807.7	5,776.9	21.1	21.8	-20.47	377.0	-508.1	308.6	267.3	41.32	7.470	
5,900.0	5,877.0	5,906.8	5,876.0	21.5	22.1	-21.42	377.0	-508.1	295.6	253.6	42.04	7.032	
6,000.0	5,976.0	6,005.8	5,975.0	21.9	22.4	-22.45	377.0	-508.1	282.7	239.9	42.77	6.609	
6,100.0	6,075.0	6,104.8	6,074.0	22.3	22.8	-23.57	377.0	-508.1	269.9	226.4	43.51	6.203	
6,200.0	6,174.0	6,203.8	6,173.0	22.7	23.1	-24.81	377.0	-508.1	257.1	212.9	44.24	5.812	
6,300.0	6,273.1	6,302.9	6,272.1	23.1	23.4	-26.18	377.0	-508.1	244.6	199.6	44.99	5.436	
6,400.0	6,372.1	6,401.9	6,371.1	23.5	23.8	-27.69	377.0	-508.1	232.1	186.4	45.74	5.075	
6,500.0	6,471.1	6,500.9	6,470.1	23.9	24.1	-29.37	377.0	-508.1	219.9	173.4	46.50	4.729	
6,600.0	6,570.2	6,600.0	6,569.2	24.3	24.4	-31.25	377.0	-508.1	207.8	160.6	47.26	4.397	
6,700.0	6,669.2	6,701.0	6,668.2	24.7	24.8	-33.35	377.0	-508.1	196.0	148.0	48.05	4.080	
6,800.0	6,768.2	6,802.0	6,767.2	25.1	25.1	-35.72	377.0	-508.1	184.5	135.7	48.84	3.778	
6,878.7	6,846.2	6,876.0	6,845.2	25.4	25.4	-37.80	377.0	-508.1	175.7	126.2	49.46	3.552	
6,900.0	6,867.2	6,903.0	6,866.2	25.5	25.5	-38.36	377.0	-508.1	173.4	123.8	49.66	3.492	
7,000.0	6,966.5	7,003.7	6,965.5	25.9	25.8	-40.88	377.0	-508.1	164.1	113.6	50.47	3.251	
7,100.0	7,066.1	7,104.1	7,065.1	26.3	26.2	-43.06	377.0	-508.1	157.0	105.8	51.27	3.063	
7,200.0	7,165.8	7,204.4	7,164.8	26.7	26.5	-44.77	377.0	-508.1	152.1	100.1	52.04	2.923	
7,300.0	7,265.7	7,304.5	7,264.7	27.0	26.8	-45.89	377.0	-508.1	149.1	96.3	52.78	2.825	
7,400.0	7,365.7	7,404.5	7,364.7	27.4	27.2	-46.33	377.0	-508.1	148.0	94.5	53.50	2.766	
7,412.1	7,377.8	7,407.6	7,376.8	27.4	27.2	-90.01	377.0	-508.1	148.0	94.4	53.55	2.763	
7,500.0	7,465.7	7,504.5	7,464.7	27.7	27.5	-90.01	377.0	-508.1	148.0	93.8	54.19	2.731	
7,600.0	7,565.7	7,604.5	7,564.7	28.1	27.9	-90.01	377.0	-508.1	148.0	93.1	54.89	2.696	
7,702.3	7,668.0	7,702.2	7,667.0	28.4	28.2	-90.01	377.0	-508.1	148.0	92.4	55.58	2.662	
7,750.0	7,715.7	7,745.5	7,714.7	28.6	28.4	89.36	377.0	-508.1	147.9	92.1	55.86	2.648	
7,767.0	7,732.6	7,762.4	7,731.6	28.6	28.4	90.00	377.0	-508.1	147.9	92.0	55.94	2.644 CC	
7,800.0	7,765.2	7,805.0	7,764.2	28.7	28.6	91.78	377.0	-508.1	148.0	91.9	56.13	2.637 ES, SF	
7,850.0	7,814.1	7,843.9	7,813.1	28.8	28.7	95.71	377.0	-508.1	148.7	92.5	56.26	2.643	
7,900.0	7,861.8	7,908.4	7,860.8	28.9	28.9	100.85	377.0	-508.1	151.0	94.5	56.44	2.675	
7,950.0	7,908.1	7,937.9	7,907.1	29.0	29.0	106.76	377.0	-508.1	155.9	99.4	56.49	2.759	
8,000.0	7,952.5	7,982.3	7,951.5	29.1	29.2	112.89	377.0	-508.1	164.5	107.9	56.63	2.905	
8,050.0	7,994.8	8,024.6	7,993.8	29.2	29.3	118.72	377.0	-508.1	177.8	121.0	56.81	3.130	
8,100.0	8,034.5	8,064.3	8,033.5	29.3	29.5	123.82	377.0	-508.1	196.2	139.2	57.06	3.439	
8,150.0	8,071.5	8,101.3	8,070.5	29.3	29.6	127.96	377.0	-508.1	219.8	162.4	57.35	3.833	
8,200.0	8,105.4	8,135.2	8,104.4	29.3	29.7	131.02	377.0	-508.1	248.2	190.5	57.64	4.306	
8,250.0	8,136.0	8,165.8	8,135.0	29.4	29.8	132.96	377.0	-508.1	280.9	223.0	57.92	4.850	
8,300.0	8,163.0	8,207.2	8,162.0	29.4	29.9	133.71	377.0	-508.1	317.4	259.2	58.23	5.451	
8,350.0	8,186.3	8,216.1	8,185.3	29.4	30.0	133.13	377.0	-508.1	357.2	298.8	58.40	6.115	
8,400.0	8,205.6	8,235.4	8,204.6	29.4	30.0	130.95	377.0	-508.1	399.6	341.0	58.59	6.820	
8,450.0	8,220.8	8,250.6	8,219.8	29.4	30.1	126.64	377.0	-508.1	444.2	385.4	58.74	7.561	
8,500.0	8,231.9	8,261.7	8,230.9	29.4	30.1	119.30	377.0	-508.1	490.4	431.5	58.86	8.331	
8,550.0	8,238.6	8,268.4	8,237.6	29.5	30.2	107.67	377.0	-508.1	537.8	478.9	58.95	9.123	
8,602.3	8,241.0	8,270.8	8,240.0	29.7	30.2	90.00	377.0	-508.1	588.2	529.2	59.02	9.966	
8,694.2	8,241.0	8,270.8	8,240.0	30.0	30.2	90.00	377.0	-508.1	677.9	618.8	59.10	11.471	
8,700.0	8,241.0	8,270.8	8,240.0	30.0	30.2	90.00	377.0	-508.1	683.6	624.5	59.10	11.566	
8,800.0	8,241.0	8,270.8	8,240.0	30.4	30.2	90.00	377.0	-508.1	782.0	722.9	59.16	13.218	
8,900.0	8,241.0	8,270.8	8,240.0	30.9	30.2	90.00	377.0	-508.1	880.8	821.6	59.21	14.876	
9,000.0	8,241.0	8,270.8	8,240.0	31.5	30.2	90.00	377.0	-508.1	979.9	920.6	59.25	16.538	

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 #102H
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 #102H	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	
9,100.0	8,241.0	8,270.8	8,240.0	32.1	30.2	90.00	377.0	-508.1	1,079.1	1,019.8	59.29	18.201	
9,200.0	8,241.0	8,270.8	8,240.0	32.8	30.2	90.00	377.0	-508.1	1,178.4	1,119.1	59.32	19.866	
9,300.0	8,241.0	8,270.8	8,240.0	33.6	30.2	90.00	377.0	-508.1	1,277.9	1,218.5	59.35	21.532	
9,400.0	8,241.0	8,270.8	8,240.0	34.4	30.2	90.00	377.0	-508.1	1,377.4	1,318.1	59.38	23.198	
9,500.0	8,241.0	8,270.8	8,240.0	35.3	30.2	90.00	377.0	-508.1	1,477.0	1,417.6	59.40	24.865	
9,600.0	8,241.0	8,270.8	8,240.0	36.3	30.2	90.00	377.0	-508.1	1,576.7	1,517.2	59.43	26.531	
9,700.0	8,241.0	8,270.8	8,240.0	37.2	30.2	90.00	377.0	-508.1	1,676.4	1,616.9	59.45	28.197	
9,800.0	8,241.0	8,270.8	8,240.0	38.3	30.2	90.00	377.0	-508.1	1,776.1	1,716.6	59.48	29.862	
9,900.0	8,241.0	8,270.8	8,240.0	39.3	30.2	90.00	377.0	-508.1	1,875.8	1,816.3	59.50	31.527	
10,000.0	8,241.0	8,270.8	8,240.0	40.5	30.2	90.00	377.0	-508.1	1,975.6	1,916.1	59.52	33.191	
10,100.0	8,241.0	8,270.8	8,240.0	41.6	30.2	90.00	377.0	-508.1	2,075.4	2,015.9	59.55	34.853	
10,200.0	8,241.0	8,270.8	8,240.0	42.8	30.2	90.00	377.0	-508.1	2,175.2	2,115.7	59.57	36.515	
10,300.0	8,241.0	8,270.8	8,240.0	44.0	30.2	90.00	377.0	-508.1	2,275.1	2,215.5	59.60	38.175	
10,400.0	8,241.0	8,270.8	8,240.0	45.2	30.2	90.00	377.0	-508.1	2,374.9	2,315.3	59.62	39.833	
10,500.0	8,241.0	8,270.8	8,240.0	46.5	30.2	90.00	377.0	-508.1	2,474.8	2,415.1	59.65	41.490	
10,600.0	8,241.0	8,270.8	8,240.0	47.8	30.2	90.00	377.0	-508.1	2,574.6	2,515.0	59.67	43.146	
10,700.0	8,241.0	8,270.8	8,240.0	49.1	30.2	90.01	377.0	-508.1	2,674.5	2,614.8	59.70	44.800	
10,800.0	8,241.0	8,270.8	8,240.0	50.4	30.2	90.01	377.0	-508.1	2,774.4	2,714.7	59.73	46.452	
10,900.0	8,241.0	8,270.8	8,240.0	51.7	30.2	90.01	377.0	-508.1	2,874.3	2,814.6	59.75	48.102	
11,000.0	8,241.0	8,270.8	8,240.0	53.1	30.2	90.01	377.0	-508.1	2,974.2	2,914.4	59.78	49.750	
11,100.0	8,241.0	8,270.8	8,240.0	54.5	30.2	90.01	377.0	-508.1	3,074.1	3,014.3	59.81	51.396	
11,200.0	8,241.0	8,270.8	8,240.0	55.9	30.2	90.01	377.0	-508.1	3,174.0	3,114.2	59.84	53.040	
11,300.0	8,241.0	8,270.8	8,240.0	57.3	30.2	90.01	377.0	-508.1	3,274.0	3,214.1	59.87	54.682	
11,400.0	8,241.0	8,270.8	8,240.0	58.7	30.2	90.01	377.0	-508.1	3,373.9	3,314.0	59.90	56.321	
11,500.0	8,241.0	8,270.8	8,240.0	60.1	30.2	90.01	377.0	-508.1	3,473.8	3,413.9	59.94	57.958	
11,600.0	8,241.0	8,270.8	8,240.0	61.6	30.2	90.01	377.0	-508.1	3,573.8	3,513.8	59.97	59.593	
11,700.0	8,241.0	8,270.8	8,240.0	63.0	30.2	90.01	377.0	-508.1	3,673.7	3,613.7	60.00	61.225	
11,800.0	8,241.0	8,270.8	8,240.0	64.5	30.2	90.01	377.0	-508.1	3,773.6	3,713.6	60.04	62.855	
11,900.0	8,241.0	8,270.8	8,240.0	66.0	30.2	90.01	377.0	-508.1	3,873.6	3,813.5	60.07	64.482	
12,000.0	8,241.0	8,270.8	8,240.0	67.4	30.2	90.01	377.0	-508.1	3,973.5	3,913.4	60.11	66.106	
12,100.0	8,241.0	16,124.1	12,260.0	68.9	76.4	179.83	-3,693.4	-360.9	4,020.0	3,950.3	69.70	57.676	
12,200.0	8,241.0	16,224.1	12,260.0	70.4	77.7	179.83	-3,793.4	-360.1	4,020.0	3,948.9	71.13	56.518	
12,300.0	8,241.0	16,324.1	12,260.0	71.9	79.1	179.83	-3,893.4	-359.3	4,020.0	3,947.5	72.56	55.402	
12,400.0	8,241.0	16,424.1	12,260.0	73.4	80.5	179.83	-3,993.4	-358.5	4,020.0	3,946.0	74.00	54.324	
12,500.0	8,241.0	16,524.1	12,260.0	74.9	81.9	179.83	-4,093.4	-357.8	4,020.0	3,944.6	75.44	53.284	
12,600.0	8,241.0	16,624.1	12,260.0	76.4	83.3	179.83	-4,193.4	-357.0	4,020.0	3,943.1	76.89	52.281	
12,700.0	8,241.0	16,724.1	12,260.0	78.0	84.7	179.83	-4,293.4	-356.2	4,020.0	3,941.7	78.35	51.311	
12,800.0	8,241.0	16,824.1	12,260.0	79.5	86.1	179.83	-4,393.4	-355.4	4,020.0	3,940.2	79.80	50.374	
12,900.0	8,241.0	16,924.1	12,260.0	81.0	87.5	179.83	-4,493.4	-354.6	4,020.0	3,938.8	81.26	49.468	
13,000.0	8,241.0	17,024.1	12,260.0	82.6	89.0	179.83	-4,593.4	-353.8	4,020.0	3,937.3	82.73	48.592	
13,100.0	8,241.0	17,124.1	12,260.0	84.1	90.4	179.83	-4,693.4	-353.1	4,020.0	3,935.8	84.20	47.744	
13,200.0	8,241.0	17,224.1	12,260.0	85.6	91.9	179.83	-4,793.4	-352.3	4,020.0	3,934.3	85.67	46.924	
13,300.0	8,241.0	17,324.1	12,260.0	87.2	93.3	179.83	-4,893.4	-351.5	4,020.0	3,932.9	87.15	46.130	
13,400.0	8,241.0	17,424.1	12,260.0	88.7	94.8	179.83	-4,993.4	-350.7	4,020.0	3,931.4	88.62	45.360	
13,500.0	8,241.0	17,524.1	12,260.0	90.3	96.3	179.83	-5,093.4	-349.9	4,020.0	3,929.9	90.11	44.614	
13,600.0	8,241.0	17,624.1	12,260.0	91.9	97.8	179.83	-5,193.4	-349.1	4,020.0	3,928.4	91.59	43.891	
13,700.0	8,241.0	17,724.1	12,260.0	93.4	99.2	179.83	-5,293.3	-348.3	4,020.0	3,926.9	93.08	43.190	
13,800.0	8,241.0	17,824.1	12,260.0	95.0	100.7	179.83	-5,393.3	-347.6	4,020.0	3,925.4	94.57	42.509	
13,900.0	8,241.0	17,924.1	12,260.0	96.6	102.2	179.83	-5,493.3	-346.8	4,020.0	3,924.0	96.06	41.849	
14,000.0	8,241.0	18,024.1	12,260.0	98.1	103.7	179.83	-5,593.3	-346.0	4,020.0	3,922.5	97.55	41.208	
14,100.0	8,241.0	18,124.1	12,260.0	99.7	105.2	179.83	-5,693.3	-345.2	4,020.0	3,921.0	99.05	40.585	
14,200.0	8,241.0	18,224.1	12,260.0	101.3	106.7	179.83	-5,793.3	-344.4	4,020.0	3,919.5	100.55	39.980	

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 #102H
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 #102H	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	8,241.0	18,324.1	12,260.0	102.9	108.2	179.83	-5,893.3	-343.6	4,020.0	3,918.0	102.05	39.392	
14,400.0	8,241.0	18,424.1	12,260.0	104.4	109.8	179.83	-5,993.3	-342.9	4,020.0	3,916.5	103.55	38.821	
14,500.0	8,241.0	18,524.1	12,260.0	106.0	111.3	179.83	-6,093.3	-342.1	4,020.0	3,915.0	105.06	38.265	
14,600.0	8,241.0	18,624.1	12,260.0	107.6	112.8	179.83	-6,193.3	-341.3	4,020.0	3,913.5	106.57	37.724	
14,700.0	8,241.0	18,724.1	12,260.0	109.2	114.3	179.83	-6,293.3	-340.5	4,020.0	3,911.9	108.07	37.197	
14,800.0	8,241.0	18,824.1	12,260.0	110.8	115.9	179.83	-6,393.3	-339.7	4,020.0	3,910.4	109.58	36.684	
14,900.0	8,241.0	18,924.1	12,260.0	112.4	117.4	179.83	-6,493.3	-338.9	4,020.0	3,908.9	111.10	36.185	
15,000.0	8,241.0	19,024.1	12,260.0	114.0	118.9	179.83	-6,593.3	-338.2	4,020.0	3,907.4	112.61	35.699	
15,100.0	8,241.0	19,124.1	12,260.0	115.6	120.5	179.83	-6,693.3	-337.4	4,020.0	3,905.9	114.12	35.225	
15,200.0	8,241.0	19,224.1	12,260.0	117.1	122.0	179.84	-6,793.3	-336.6	4,020.0	3,904.4	115.64	34.763	
15,300.0	8,241.0	19,324.1	12,260.0	118.7	123.6	179.84	-6,893.3	-335.8	4,020.0	3,902.9	117.16	34.313	
15,400.0	8,241.0	19,424.1	12,260.0	120.3	125.1	179.84	-6,993.3	-335.0	4,020.0	3,901.3	118.68	33.874	
15,500.0	8,241.0	19,524.1	12,260.0	121.9	126.7	179.84	-7,093.3	-334.2	4,020.0	3,899.8	120.20	33.445	
15,600.0	8,241.0	19,624.1	12,260.0	123.5	128.2	179.84	-7,193.3	-333.5	4,020.0	3,898.3	121.72	33.027	
15,700.0	8,241.0	19,724.1	12,260.0	125.1	129.8	179.84	-7,293.3	-332.7	4,020.0	3,896.8	123.24	32.619	
15,800.0	8,241.0	19,824.1	12,260.0	126.7	131.3	179.84	-7,393.3	-331.9	4,020.0	3,895.3	124.76	32.221	
15,900.0	8,241.0	19,924.1	12,260.0	128.3	132.9	179.84	-7,493.3	-331.1	4,020.0	3,893.7	126.29	31.832	
16,000.0	8,241.0	20,024.1	12,260.0	129.9	134.4	179.84	-7,593.3	-330.3	4,020.0	3,892.2	127.81	31.452	
16,100.0	8,241.0	20,124.1	12,260.0	131.6	136.0	179.84	-7,693.3	-329.5	4,020.0	3,890.7	129.34	31.081	
16,200.0	8,241.0	20,224.1	12,260.0	133.2	137.6	179.84	-7,793.3	-328.8	4,020.0	3,889.1	130.87	30.718	
16,300.0	8,241.0	20,324.1	12,260.0	134.8	139.1	179.84	-7,893.3	-328.0	4,020.0	3,887.6	132.40	30.363	
16,400.0	8,241.0	20,424.1	12,260.0	136.4	140.7	179.84	-7,993.3	-327.2	4,020.0	3,886.1	133.93	30.016	
16,500.0	8,241.0	20,524.1	12,260.0	138.0	142.3	179.84	-8,093.3	-326.4	4,020.0	3,884.6	135.46	29.677	
16,600.0	8,241.0	20,624.1	12,260.0	139.6	143.9	179.84	-8,193.3	-325.6	4,020.0	3,883.0	136.99	29.345	
16,700.0	8,241.0	20,724.1	12,260.0	141.2	145.4	179.84	-8,293.3	-324.8	4,020.0	3,881.5	138.52	29.021	
16,800.0	8,241.0	20,824.1	12,260.0	142.8	147.0	179.84	-8,393.3	-324.1	4,020.0	3,880.0	140.06	28.703	
16,900.0	8,241.0	20,924.1	12,260.0	144.4	148.6	179.84	-8,493.3	-323.3	4,020.0	3,878.4	141.59	28.392	
17,000.0	8,241.0	21,024.1	12,260.0	146.1	150.2	179.84	-8,593.2	-322.5	4,020.0	3,876.9	143.12	28.088	
17,100.0	8,241.0	21,124.1	12,260.0	147.7	151.8	179.84	-8,693.2	-321.7	4,020.0	3,875.4	144.66	27.789	
17,200.0	8,241.0	21,224.1	12,260.0	149.3	153.3	179.84	-8,793.2	-320.9	4,020.0	3,873.8	146.20	27.497	
17,300.0	8,241.0	21,324.1	12,260.0	150.9	154.9	179.84	-8,893.2	-320.1	4,020.0	3,872.3	147.73	27.211	
17,400.0	8,241.0	21,424.1	12,260.0	152.5	156.5	179.84	-8,993.2	-319.4	4,020.0	3,870.7	149.27	26.931	
17,500.0	8,241.0	21,524.1	12,260.0	154.1	158.1	179.84	-9,093.2	-318.6	4,020.0	3,869.2	150.81	26.656	
17,600.0	8,241.0	21,624.1	12,260.0	155.8	159.7	179.84	-9,193.2	-317.8	4,020.0	3,867.7	152.35	26.387	
17,700.0	8,241.0	21,724.1	12,260.0	157.4	161.3	179.84	-9,293.2	-317.0	4,020.0	3,866.1	153.89	26.123	
17,800.0	8,241.0	21,824.1	12,260.0	159.0	162.9	179.84	-9,393.2	-316.2	4,020.0	3,864.6	155.43	25.864	
17,900.0	8,241.0	21,924.1	12,260.0	160.6	164.5	179.84	-9,493.2	-315.4	4,020.0	3,863.0	156.97	25.610	
18,000.0	8,241.0	22,024.1	12,260.0	162.2	166.1	179.84	-9,593.2	-314.7	4,020.0	3,861.5	158.51	25.361	
18,100.0	8,241.0	22,124.1	12,260.0	163.9	167.7	179.84	-9,693.2	-313.9	4,020.0	3,860.0	160.05	25.117	
18,200.0	8,241.0	22,224.1	12,260.0	165.5	169.3	179.84	-9,793.2	-313.1	4,020.0	3,858.4	161.59	24.877	
18,300.0	8,241.0	22,324.1	12,260.0	167.1	170.9	179.84	-9,893.2	-312.3	4,020.0	3,856.9	163.14	24.642	
18,400.0	8,241.0	22,424.1	12,260.0	168.7	172.5	179.84	-9,993.2	-311.5	4,020.0	3,855.3	164.68	24.411	
18,403.1	8,241.0	22,427.1	12,260.0	168.8	172.5	179.84	-9,996.3	-311.5	4,020.0	3,855.3	164.73	24.404	
18,500.0	8,241.0	22,424.7	12,260.0	170.3	172.5	179.84	-9,993.8	-311.5	4,021.2	3,856.0	165.22	24.339	
18,541.8	8,241.0	22,424.7	12,260.0	171.0	172.5	179.84	-9,993.8	-311.5	4,022.5	3,857.1	165.42	24.317	
18,542.4	8,241.0	22,424.7	12,260.0	171.0	172.5	179.84	-9,993.8	-311.5	4,022.5	3,857.1	165.46	24.311	

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 #102H
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 #102H	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	
0.0	0.0	0.0	0.0	0.0	0.0	-90.40	-1.3	-189.9	189.9				
100.0	100.0	100.0	100.0	0.1	0.1	-90.40	-1.3	-189.9	189.9	189.7	0.26	741.077	
200.0	200.0	200.0	200.0	0.5	0.5	-90.40	-1.3	-189.9	189.9	189.0	0.97	195.164	
300.0	300.0	300.0	300.0	0.8	0.8	-90.40	-1.3	-189.9	189.9	188.3	1.69	112.380	
400.0	400.0	400.0	400.0	1.2	1.2	-90.40	-1.3	-189.9	189.9	187.5	2.41	78.908	
500.0	500.0	500.0	500.0	1.6	1.6	-90.40	-1.3	-189.9	189.9	186.8	3.12	60.800	
600.0	600.0	600.0	600.0	1.9	1.9	-90.40	-1.3	-189.9	189.9	186.1	3.84	49.451	
700.0	700.0	700.0	700.0	2.3	2.3	-90.40	-1.3	-189.9	189.9	185.4	4.56	41.673	
800.0	800.0	800.0	800.0	2.6	2.6	-90.40	-1.3	-189.9	189.9	184.7	5.27	36.009	
900.0	900.0	900.0	900.0	3.0	3.0	-90.40	-1.3	-189.9	189.9	184.0	5.99	31.700	
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	-90.40	-1.3	-189.9	189.9	183.2	6.71	28.313	
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	-90.40	-1.3	-189.9	189.9	182.5	7.43	25.579	
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	-90.40	-1.3	-189.9	189.9	181.8	8.14	23.327	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.40	-1.3	-189.9	189.9	181.1	8.86	21.439	
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	-90.40	-1.3	-189.9	189.9	180.4	9.58	19.834	
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	-90.40	-1.3	-189.9	189.9	179.7	10.29	18.453	
1,600.0	1,600.0	1,601.9	1,601.9	5.5	5.5	-90.17	-0.6	-189.4	189.4	178.4	11.02	17.199	
1,700.0	1,700.0	1,703.7	1,703.7	5.9	5.9	-89.49	1.7	-187.9	188.0	176.2	11.73	16.019	
1,800.0	1,800.0	1,805.4	1,805.3	6.2	6.2	-88.32	5.4	-185.4	185.6	173.1	12.45	14.902	
1,900.0	1,900.0	1,906.9	1,906.6	6.6	6.6	-86.64	10.7	-181.9	182.3	169.1	13.17	13.844	
2,000.0	2,000.0	2,008.2	2,007.5	6.9	7.0	-84.41	17.4	-177.4	178.4	164.5	13.89	12.846	
2,100.0	2,100.0	2,109.1	2,108.0	7.3	7.3	-81.55	25.5	-171.9	174.0	159.4	14.61	11.910	
2,200.0	2,200.0	2,209.7	2,207.9	7.7	7.7	-78.02	35.1	-165.5	169.3	154.0	15.33	11.045	
2,300.0	2,300.0	2,309.8	2,307.1	8.0	8.1	-73.74	46.1	-158.1	164.8	148.8	16.06	10.261	
2,400.0	2,400.0	2,408.7	2,405.1	8.4	8.4	-69.07	57.5	-150.4	161.1	144.3	16.80	9.590	
2,500.0	2,500.0	2,507.8	2,503.1	8.7	8.8	-64.21	69.0	-142.7	158.5	141.0	17.54	9.038	
2,600.0	2,600.0	2,606.8	2,601.2	9.1	9.2	-59.23	80.4	-135.0	157.2	138.9	18.28	8.596	
2,662.1	2,662.1	2,668.3	2,662.1	9.3	9.4	-56.11	87.5	-130.3	156.9	138.2	18.75	8.371 CC	
2,700.0	2,700.0	2,705.8	2,699.3	9.4	9.6	-54.20	91.8	-127.4	157.0	138.0	19.03	8.252 ES	
2,800.0	2,800.0	2,804.8	2,797.3	9.8	10.0	-49.20	103.3	-119.7	158.1	138.3	19.77	7.997	
2,900.0	2,900.0	2,903.9	2,895.4	10.2	10.4	-44.31	114.7	-112.0	160.4	139.9	20.51	7.820	
3,000.0	3,000.0	3,002.9	2,993.5	10.5	10.7	-39.58	126.2	-104.3	163.8	142.6	21.24	7.712	
3,100.0	3,100.0	3,101.9	3,091.5	10.9	11.1	8.65	137.6	-96.6	167.5	145.5	21.97	7.622	
3,200.0	3,200.0	3,201.0	3,189.6	11.2	11.5	13.11	149.1	-88.9	170.5	147.8	22.69	7.512	
3,300.0	3,299.9	3,300.1	3,287.7	11.6	11.9	17.55	160.5	-81.2	172.8	149.4	23.41	7.382	
3,400.0	3,399.7	3,400.9	3,385.8	11.9	12.3	22.06	171.9	-73.5	174.6	150.4	24.13	7.235	
3,500.0	3,499.4	3,501.9	3,483.8	12.3	12.7	26.71	183.4	-65.9	175.8	151.0	24.84	7.079	
3,600.0	3,598.9	3,603.1	3,581.7	12.7	13.1	31.54	194.8	-58.2	176.8	151.2	25.54	6.921	
3,700.0	3,698.3	3,704.4	3,679.5	13.0	13.5	36.60	206.2	-50.5	177.6	151.3	26.24	6.767	
3,800.0	3,797.4	3,805.8	3,777.1	13.4	13.9	41.93	217.6	-42.9	178.5	151.5	26.93	6.627	
3,900.0	3,896.4	3,907.3	3,874.6	13.8	14.4	47.37	229.0	-35.2	180.4	152.7	27.62	6.529	
4,000.0	3,995.5	4,008.8	3,972.1	14.1	14.8	52.65	240.3	-27.6	183.9	155.6	28.32	6.493 SF	
4,100.0	4,094.5	4,089.6	4,069.6	14.5	15.1	57.69	251.7	-20.0	188.9	160.0	28.94	6.528	
4,200.0	4,193.5	4,188.1	4,167.2	14.9	15.5	62.45	263.1	-12.3	195.4	165.8	29.64	6.592	
4,300.0	4,292.5	4,286.6	4,264.7	15.2	15.9	66.88	274.5	-4.7	203.2	172.8	30.35	6.693	
4,400.0	4,391.6	4,385.1	4,362.2	15.6	16.3	70.97	285.8	3.0	212.1	181.0	31.07	6.824	
4,500.0	4,490.6	4,483.6	4,459.7	16.0	16.7	74.72	297.2	10.6	222.0	190.2	31.80	6.979	
4,600.0	4,589.6	4,582.0	4,557.2	16.4	17.1	78.14	308.6	18.3	232.7	200.2	32.54	7.152	
4,700.0	4,688.6	4,680.5	4,654.8	16.8	17.5	81.25	320.0	25.9	244.3	211.0	33.29	7.339	
4,800.0	4,787.7	4,779.0	4,752.3	17.2	17.9	84.08	331.4	33.5	256.5	222.4	34.04	7.536	
4,900.0	4,886.7	4,877.5	4,849.8	17.6	18.3	86.65	342.7	41.2	269.2	234.5	34.79	7.739	
5,000.0	4,985.7	4,978.6	4,950.0	17.9	18.7	89.06	354.3	48.9	282.3	246.8	35.59	7.933	

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 #102H
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 #102H	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	5,084.8	5,085.1	5,055.8	18.3	19.1	91.47	364.5	55.8	293.8	257.3	36.45	8.060	
5,200.0	5,183.8	5,192.1	5,162.3	18.7	19.6	93.86	372.3	61.1	303.0	265.7	37.28	8.127	
5,300.0	5,282.8	5,299.3	5,269.3	19.1	19.9	96.28	377.7	64.7	310.0	271.9	38.09	8.138	
5,400.0	5,381.8	5,406.6	5,376.6	19.5	20.3	98.78	380.5	66.6	314.9	276.0	38.87	8.100	
5,500.0	5,480.9	5,510.9	5,480.9	19.9	20.7	101.33	381.0	66.9	317.9	278.2	39.63	8.020	
5,600.0	5,579.9	5,609.9	5,579.9	20.3	21.0	103.74	381.0	66.9	320.9	280.5	40.39	7.945	
5,700.0	5,678.9	5,709.0	5,678.9	20.7	21.3	106.11	381.0	66.9	324.5	283.4	41.15	7.887	
5,800.0	5,777.9	5,808.0	5,777.9	21.1	21.7	108.42	381.0	66.9	328.7	286.8	41.90	7.844	
5,900.0	5,877.0	5,907.0	5,877.0	21.5	22.0	110.67	381.0	66.9	333.4	290.7	42.66	7.816	
6,000.0	5,976.0	6,006.0	5,976.0	21.9	22.3	112.85	381.0	66.9	338.6	295.2	43.41	7.801	
6,100.0	6,075.0	6,105.1	6,075.0	22.3	22.7	114.97	381.0	66.9	344.3	300.1	44.15	7.798	
6,200.0	6,174.0	6,204.1	6,174.0	22.7	23.0	117.02	381.0	66.9	350.4	305.5	44.90	7.805	
6,300.0	6,273.1	6,303.1	6,273.1	23.1	23.3	118.99	381.0	66.9	357.0	311.4	45.64	7.823	
6,400.0	6,372.1	6,402.1	6,372.1	23.5	23.7	120.90	381.0	66.9	364.0	317.6	46.38	7.849	
6,500.0	6,471.1	6,501.2	6,471.1	23.9	24.0	122.73	381.0	66.9	371.4	324.3	47.12	7.883	
6,600.0	6,570.2	6,600.2	6,570.2	24.3	24.3	124.49	381.0	66.9	379.2	331.3	47.85	7.924	
6,700.0	6,669.2	6,700.8	6,669.2	24.7	24.7	126.17	381.0	66.9	387.3	338.7	48.58	7.971	
6,800.0	6,768.2	6,801.8	6,768.2	25.1	25.0	127.79	381.0	66.9	395.7	346.4	49.32	8.023	
6,878.7	6,846.2	6,876.2	6,846.2	25.4	25.3	129.01	381.0	66.9	402.5	352.7	49.88	8.070	
6,900.0	6,867.2	6,902.7	6,867.2	25.5	25.4	129.35	381.0	66.9	404.4	354.3	50.05	8.079	
7,000.0	6,966.5	7,003.5	6,966.5	25.9	25.7	130.73	381.0	66.9	412.2	361.4	50.78	8.118	
7,100.0	7,066.1	7,103.9	7,066.1	26.3	26.1	131.78	381.0	66.9	418.4	366.9	51.49	8.126	
7,200.0	7,165.8	7,204.1	7,165.8	26.7	26.4	132.53	381.0	66.9	423.1	370.8	52.20	8.104	
7,300.0	7,265.7	7,304.2	7,265.7	27.0	26.8	132.98	381.0	66.9	425.9	373.0	52.91	8.051	
7,400.0	7,365.7	7,404.3	7,365.7	27.4	27.1	133.15	381.0	66.9	427.0	373.4	53.60	7.967	
7,412.1	7,377.8	7,407.8	7,377.8	27.4	27.1	89.47	381.0	66.9	427.1	373.4	53.66	7.959	
7,500.0	7,465.7	7,504.3	7,465.7	27.7	27.4	89.47	381.0	66.9	427.1	372.8	54.30	7.865	
7,600.0	7,565.7	7,604.3	7,565.7	28.1	27.8	89.47	381.0	66.9	427.1	372.1	54.99	7.766	
7,702.3	7,668.0	7,702.0	7,668.0	28.4	28.1	89.47	381.0	66.9	427.1	371.4	55.68	7.669	
7,750.0	7,715.7	7,745.7	7,715.7	28.6	28.3	-92.19	381.0	66.9	427.1	371.1	55.99	7.629	
7,800.0	7,765.2	7,804.7	7,765.2	28.7	28.5	-93.00	381.0	66.9	427.4	371.1	56.34	7.587	
7,850.0	7,814.1	7,844.1	7,814.1	28.8	28.6	-94.32	381.0	66.9	428.1	371.5	56.61	7.563	
7,900.0	7,861.8	7,908.2	7,861.8	28.9	28.8	-96.06	381.0	66.9	429.5	372.6	56.95	7.542	
7,950.0	7,908.1	7,938.1	7,908.1	29.0	28.9	-98.13	381.0	66.9	432.1	374.9	57.16	7.558	
8,000.0	7,952.5	7,982.5	7,952.5	29.1	29.1	-100.37	381.0	66.9	436.2	378.8	57.41	7.597	
8,050.0	7,994.8	8,024.8	7,994.8	29.2	29.2	-102.66	381.0	66.9	442.5	384.8	57.64	7.676	
8,100.0	8,034.5	8,064.6	8,034.5	29.3	29.4	-104.82	381.0	66.9	451.4	393.6	57.85	7.803	
8,150.0	8,071.5	8,101.6	8,071.5	29.3	29.5	-106.72	381.0	66.9	463.4	405.4	58.04	7.985	
8,200.0	8,105.4	8,135.5	8,105.4	29.3	29.6	-108.20	381.0	66.9	478.9	420.7	58.21	8.229	
8,250.0	8,136.0	8,166.1	8,136.0	29.4	29.7	-109.14	381.0	66.9	498.1	439.8	58.35	8.537	
8,300.0	8,163.0	8,206.9	8,163.0	29.4	29.9	-109.42	381.0	66.9	521.1	462.5	58.52	8.905	
8,350.0	8,186.3	8,216.3	8,186.3	29.4	29.9	-108.92	381.0	66.9	547.6	489.1	58.56	9.352	
8,400.0	8,205.6	8,235.7	8,205.6	29.4	30.0	-107.50	381.0	66.9	577.6	519.0	58.63	9.852	
8,450.0	8,220.8	8,250.9	8,220.8	29.4	30.0	-105.05	381.0	66.9	610.7	552.1	58.68	10.407	
8,500.0	8,231.9	8,261.9	8,231.9	29.4	30.1	-101.42	381.0	66.9	646.5	587.8	58.71	11.012	
8,550.0	8,238.6	8,268.6	8,238.6	29.5	30.1	-96.52	381.0	66.9	684.5	625.8	58.72	11.657	
8,602.3	8,241.0	8,271.0	8,241.0	29.7	30.1	-90.00	381.0	66.9	726.1	667.3	58.71	12.368	
8,694.2	8,241.0	8,271.0	8,241.0	30.0	30.1	-90.00	381.0	66.9	801.5	742.8	58.67	13.660	
8,700.0	8,241.0	8,271.0	8,241.0	30.0	30.1	-90.00	381.0	66.9	806.2	747.6	58.67	13.742	
8,800.0	8,241.0	8,271.0	8,241.0	30.4	30.1	-90.00	381.0	66.9	891.2	832.6	58.65	15.195	
8,900.0	8,241.0	8,271.0	8,241.0	30.9	30.1	-90.00	381.0	66.9	979.0	920.4	58.64	16.695	
9,000.0	8,241.0	8,271.0	8,241.0	31.5	30.1	-90.00	381.0	66.9	1,069.0	1,010.3	58.64	18.229	

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 #102H
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 #102H	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	
9,100.0	8,241.0	8,271.0	8,241.0	32.1	30.1	-90.00	381.0	66.9	1,160.5	1,101.9	58.65	19.789	
9,200.0	8,241.0	8,271.0	8,241.0	32.8	30.1	-90.00	381.0	66.9	1,253.4	1,194.8	58.65	21.370	
9,300.0	8,241.0	8,271.0	8,241.0	33.6	30.1	-90.00	381.0	66.9	1,347.3	1,288.7	58.66	22.967	
9,400.0	8,241.0	8,271.0	8,241.0	34.4	30.1	-90.00	381.0	66.9	1,442.0	1,383.4	58.68	24.577	
9,500.0	8,241.0	8,271.0	8,241.0	35.3	30.1	-90.00	381.0	66.9	1,537.4	1,478.7	58.69	26.196	
9,600.0	8,241.0	8,271.0	8,241.0	36.3	30.1	-90.00	381.0	66.9	1,633.4	1,574.7	58.70	27.824	
9,700.0	8,241.0	8,271.0	8,241.0	37.2	30.1	-90.00	381.0	66.9	1,729.8	1,671.1	58.72	29.458	
9,800.0	8,241.0	8,271.0	8,241.0	38.3	30.1	-90.00	381.0	66.9	1,826.6	1,767.8	58.74	31.097	
9,900.0	8,241.0	8,271.0	8,241.0	39.3	30.1	-90.00	381.0	66.9	1,923.7	1,864.9	58.76	32.740	
10,000.0	8,241.0	8,271.0	8,241.0	40.5	30.1	-90.00	381.0	66.9	2,021.1	1,962.3	58.78	34.386	
10,100.0	8,241.0	8,271.0	8,241.0	41.6	30.1	-90.00	381.0	66.9	2,118.7	2,059.9	58.80	36.035	
10,200.0	8,241.0	8,271.0	8,241.0	42.8	30.1	-90.00	381.0	66.9	2,216.6	2,157.8	58.82	37.686	
10,300.0	8,241.0	8,271.0	8,241.0	44.0	30.1	-90.00	381.0	66.9	2,314.6	2,255.8	58.84	39.338	
10,400.0	8,241.0	8,271.0	8,241.0	45.2	30.1	-90.00	381.0	66.9	2,412.8	2,353.9	58.86	40.991	
10,500.0	8,241.0	8,271.0	8,241.0	46.5	30.1	-90.00	381.0	66.9	2,511.1	2,452.2	58.89	42.645	
10,600.0	8,241.0	8,271.0	8,241.0	47.8	30.1	-90.00	381.0	66.9	2,609.6	2,550.7	58.91	44.299	
10,700.0	8,241.0	8,271.0	8,241.0	49.1	30.1	-90.00	381.0	66.9	2,708.2	2,649.2	58.93	45.952	
10,800.0	8,241.0	8,271.0	8,241.0	50.4	30.1	-90.00	381.0	66.9	2,806.9	2,747.9	58.96	47.606	
10,900.0	8,241.0	8,271.0	8,241.0	51.7	30.1	-90.00	381.0	66.9	2,905.6	2,846.6	58.99	49.258	
11,000.0	8,241.0	8,271.0	8,241.0	53.1	30.1	-90.00	381.0	66.9	3,004.5	2,945.5	59.01	50.910	
11,100.0	8,241.0	8,271.0	8,241.0	54.5	30.1	-90.00	381.0	66.9	3,103.4	3,044.3	59.04	52.561	
11,200.0	8,241.0	8,271.0	8,241.0	55.9	30.1	-90.00	381.0	66.9	3,202.4	3,143.3	59.07	54.211	
11,300.0	8,241.0	8,271.0	8,241.0	57.3	30.1	-90.00	381.0	66.9	3,301.4	3,242.3	59.10	55.859	
11,400.0	8,241.0	8,271.0	8,241.0	58.7	30.1	-90.00	381.0	66.9	3,400.5	3,341.4	59.13	57.506	
11,500.0	8,241.0	8,271.0	8,241.0	60.1	30.1	-90.00	381.0	66.9	3,499.7	3,440.5	59.17	59.151	
11,600.0	8,241.0	8,271.0	8,241.0	61.6	30.1	-90.00	381.0	66.9	3,598.9	3,539.7	59.20	60.794	
11,700.0	8,241.0	8,271.0	8,241.0	63.0	30.1	-90.00	381.0	66.9	3,698.1	3,638.9	59.23	62.435	
11,800.0	8,241.0	8,271.0	8,241.0	64.5	30.1	-90.00	381.0	66.9	3,797.4	3,738.2	59.27	64.074	
11,900.0	8,241.0	8,271.0	8,241.0	66.0	30.1	-90.00	381.0	66.9	3,896.8	3,837.5	59.30	65.711	
12,000.0	8,241.0	8,271.0	8,241.0	67.4	30.1	-90.00	381.0	66.9	3,996.1	3,936.8	59.34	67.345	
12,100.0	8,241.0	8,271.0	8,241.0	68.9	30.1	-90.00	381.0	66.9	4,095.5	4,036.1	59.37	68.977	
12,200.0	8,241.0	8,271.0	8,241.0	70.4	30.1	-90.00	381.0	66.9	4,194.9	4,135.5	59.41	70.607	
12,300.0	8,241.0	8,271.0	8,241.0	71.9	30.1	-90.00	381.0	66.9	4,294.4	4,234.9	59.45	72.233	
12,400.0	8,241.0	8,271.0	8,241.0	73.4	30.1	-90.00	381.0	66.9	4,393.8	4,334.3	59.49	73.857	
12,500.0	8,241.0	16,904.9	12,634.0	74.9	82.5	-172.89	-4,089.0	201.9	4,427.0	4,348.9	78.09	56.690	
12,600.0	8,241.0	17,004.9	12,634.0	76.4	83.9	-172.89	-4,189.0	202.7	4,427.0	4,347.4	79.56	55.643	
12,700.0	8,241.0	17,104.9	12,634.0	78.0	85.3	-172.89	-4,289.0	203.4	4,427.0	4,346.0	81.04	54.630	
12,800.0	8,241.0	17,204.9	12,634.0	79.5	86.7	-172.89	-4,389.0	204.2	4,427.0	4,344.5	82.52	53.650	
12,900.0	8,241.0	17,304.9	12,634.0	81.0	88.1	-172.89	-4,489.0	205.0	4,427.0	4,343.0	84.00	52.702	
13,000.0	8,241.0	17,404.9	12,634.0	82.6	89.5	-172.89	-4,589.0	205.8	4,427.0	4,341.5	85.49	51.785	
13,100.0	8,241.0	17,504.9	12,634.0	84.1	91.0	-172.89	-4,689.0	206.5	4,427.0	4,340.0	86.98	50.896	
13,200.0	8,241.0	17,604.9	12,634.0	85.6	92.4	-172.89	-4,789.0	207.3	4,427.0	4,338.5	88.48	50.035	
13,300.0	8,241.0	17,704.9	12,634.0	87.2	93.8	-172.89	-4,889.0	208.1	4,427.0	4,337.0	89.98	49.200	
13,400.0	8,241.0	17,804.9	12,634.0	88.7	95.3	-172.89	-4,989.0	208.9	4,427.0	4,335.5	91.48	48.391	
13,500.0	8,241.0	17,904.9	12,634.0	90.3	96.7	-172.89	-5,089.0	209.7	4,427.0	4,334.0	92.99	47.607	
13,600.0	8,241.0	18,004.9	12,634.0	91.9	98.2	-172.89	-5,189.0	210.4	4,427.0	4,332.5	94.50	46.846	
13,700.0	8,241.0	18,104.9	12,634.0	93.4	99.7	-172.89	-5,289.0	211.2	4,427.0	4,331.0	96.02	46.107	
13,800.0	8,241.0	18,204.9	12,634.0	95.0	101.2	-172.89	-5,389.0	212.0	4,427.0	4,329.5	97.53	45.390	
13,900.0	8,241.0	18,304.9	12,634.0	96.6	102.6	-172.89	-5,489.0	212.8	4,427.0	4,328.0	99.05	44.693	
14,000.0	8,241.0	18,404.9	12,634.0	98.1	104.1	-172.89	-5,589.0	213.5	4,427.0	4,326.4	100.58	44.017	
14,100.0	8,241.0	18,504.9	12,634.0	99.7	105.6	-172.89	-5,689.0	214.3	4,427.0	4,324.9	102.10	43.359	
14,200.0	8,241.0	18,604.9	12,634.0	101.3	107.1	-172.89	-5,789.0	215.1	4,427.0	4,323.4	103.63	42.720	

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 #102H
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 #102H	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	
14,300.0	8,241.0	18,704.9	12,634.0	102.9	108.6	-172.89	-5,889.0	215.9	4,427.0	4,321.9	105.16	42.098	
14,400.0	8,241.0	18,804.9	12,634.0	104.4	110.1	-172.89	-5,989.0	216.7	4,427.0	4,320.3	106.69	41.494	
14,500.0	8,241.0	18,904.9	12,634.0	106.0	111.6	-172.89	-6,089.0	217.4	4,427.0	4,318.8	108.23	40.905	
14,600.0	8,241.0	19,004.9	12,634.0	107.6	113.2	-172.89	-6,189.0	218.2	4,427.0	4,317.3	109.76	40.333	
14,700.0	8,241.0	19,104.9	12,634.0	109.2	114.7	-172.89	-6,289.0	219.0	4,427.0	4,315.7	111.30	39.775	
14,800.0	8,241.0	19,204.9	12,634.0	110.8	116.2	-172.89	-6,389.0	219.8	4,427.0	4,314.2	112.84	39.232	
14,900.0	8,241.0	19,304.9	12,634.0	112.4	117.7	-172.89	-6,489.0	220.5	4,427.0	4,312.6	114.38	38.703	
15,000.0	8,241.0	19,404.9	12,634.0	114.0	119.2	-172.89	-6,589.0	221.3	4,427.0	4,311.1	115.93	38.188	
15,100.0	8,241.0	19,504.9	12,634.0	115.6	120.8	-172.89	-6,689.0	222.1	4,427.0	4,309.6	117.47	37.685	
15,200.0	8,241.0	19,604.9	12,634.0	117.1	122.3	-172.89	-6,788.9	222.9	4,427.0	4,308.0	119.02	37.195	
15,300.0	8,241.0	19,704.9	12,634.0	118.7	123.8	-172.89	-6,888.9	223.7	4,427.0	4,306.5	120.57	36.717	
15,400.0	8,241.0	19,804.9	12,634.0	120.3	125.4	-172.89	-6,988.9	224.4	4,427.0	4,304.9	122.12	36.251	
15,500.0	8,241.0	19,904.9	12,634.0	121.9	126.9	-172.89	-7,088.9	225.2	4,427.0	4,303.4	123.67	35.796	
15,600.0	8,241.0	20,004.9	12,634.0	123.5	128.5	-172.89	-7,188.9	226.0	4,427.0	4,301.8	125.23	35.352	
15,700.0	8,241.0	20,104.9	12,634.0	125.1	130.0	-172.89	-7,288.9	226.8	4,427.0	4,300.3	126.78	34.918	
15,800.0	8,241.0	20,204.9	12,634.0	126.7	131.6	-172.89	-7,388.9	227.5	4,427.0	4,298.7	128.34	34.495	
15,900.0	8,241.0	20,304.9	12,634.0	128.3	133.1	-172.89	-7,488.9	228.3	4,427.0	4,297.2	129.90	34.081	
16,000.0	8,241.0	20,404.9	12,634.0	129.9	134.7	-172.89	-7,588.9	229.1	4,427.0	4,295.6	131.46	33.677	
16,100.0	8,241.0	20,504.9	12,634.0	131.6	136.2	-172.89	-7,688.9	229.9	4,427.1	4,294.0	133.02	33.282	
16,200.0	8,241.0	20,604.9	12,634.0	133.2	137.8	-172.89	-7,788.9	230.7	4,427.1	4,292.5	134.58	32.896	
16,300.0	8,241.0	20,704.9	12,634.0	134.8	139.4	-172.89	-7,888.9	231.4	4,427.1	4,290.9	136.14	32.518	
16,400.0	8,241.0	20,804.9	12,634.0	136.4	140.9	-172.89	-7,988.9	232.2	4,427.1	4,289.4	137.70	32.149	
16,500.0	8,241.0	20,904.9	12,634.0	138.0	142.5	-172.89	-8,088.9	233.0	4,427.1	4,287.8	139.27	31.788	
16,600.0	8,241.0	21,004.9	12,634.0	139.6	144.1	-172.89	-8,188.9	233.8	4,427.1	4,286.2	140.83	31.434	
16,700.0	8,241.0	21,104.9	12,634.0	141.2	145.6	-172.89	-8,288.9	234.5	4,427.1	4,284.7	142.40	31.089	
16,800.0	8,241.0	21,204.9	12,634.0	142.8	147.2	-172.89	-8,388.9	235.3	4,427.1	4,283.1	143.97	30.750	
16,900.0	8,241.0	21,304.9	12,634.0	144.4	148.8	-172.89	-8,488.9	236.1	4,427.1	4,281.5	145.54	30.419	
17,000.0	8,241.0	21,404.9	12,634.0	146.1	150.4	-172.89	-8,588.9	236.9	4,427.1	4,280.0	147.11	30.094	
17,100.0	8,241.0	21,504.9	12,634.0	147.7	151.9	-172.89	-8,688.9	237.7	4,427.1	4,278.4	148.68	29.777	
17,200.0	8,241.0	21,604.9	12,634.0	149.3	153.5	-172.89	-8,788.9	238.4	4,427.1	4,276.8	150.25	29.465	
17,300.0	8,241.0	21,704.9	12,634.0	150.9	155.1	-172.89	-8,888.9	239.2	4,427.1	4,275.2	151.82	29.160	
17,400.0	8,241.0	21,804.9	12,634.0	152.5	156.7	-172.89	-8,988.9	240.0	4,427.1	4,273.7	153.39	28.861	
17,500.0	8,241.0	21,904.9	12,634.0	154.1	158.3	-172.89	-9,088.9	240.8	4,427.1	4,272.1	154.97	28.568	
17,600.0	8,241.0	22,004.9	12,634.0	155.8	159.9	-172.89	-9,188.9	241.5	4,427.1	4,270.5	156.54	28.281	
17,700.0	8,241.0	22,104.9	12,634.0	157.4	161.4	-172.89	-9,288.9	242.3	4,427.1	4,269.0	158.11	27.999	
17,800.0	8,241.0	22,204.9	12,634.0	159.0	163.0	-172.89	-9,388.9	243.1	4,427.1	4,267.4	159.69	27.723	
17,900.0	8,241.0	22,304.9	12,634.0	160.6	164.6	-172.89	-9,488.9	243.9	4,427.1	4,265.8	161.27	27.452	
18,000.0	8,241.0	22,404.9	12,634.0	162.2	166.2	-172.89	-9,588.9	244.7	4,427.1	4,264.2	162.84	27.186	
18,100.0	8,241.0	22,504.9	12,634.0	163.9	167.8	-172.89	-9,688.9	245.4	4,427.1	4,262.7	164.42	26.925	
18,200.0	8,241.0	22,604.9	12,634.0	165.5	169.4	-172.89	-9,788.9	246.2	4,427.1	4,261.1	166.00	26.669	
18,300.0	8,241.0	22,704.9	12,634.0	167.1	171.0	-172.89	-9,888.9	247.0	4,427.1	4,259.5	167.58	26.418	
18,400.0	8,241.0	22,795.1	12,634.0	168.7	172.4	-172.89	-9,988.9	247.8	4,427.1	4,258.0	169.08	26.183	
18,500.0	8,241.0	22,796.7	12,634.0	170.3	172.5	-172.89	-9,990.4	247.8	4,428.2	4,258.5	169.72	26.091	
18,541.8	8,241.0	22,796.7	12,634.0	171.0	172.5	-172.89	-9,990.4	247.8	4,429.3	4,259.3	169.97	26.060	
18,542.4	8,241.0	22,796.7	12,634.0	171.0	172.5	-172.89	-9,990.4	247.8	4,429.3	4,259.3	170.00	26.054	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Boros Federal #102H
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 #102H	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	89.56	0.5	60.0	60.0				
100.0	100.0	100.0	100.0	0.1	0.1	89.56	0.5	60.0	60.0	59.7	0.26	234.050	
200.0	200.0	200.0	200.0	0.5	0.5	89.56	0.5	60.0	60.0	59.0	0.97	61.638	
300.0	300.0	300.0	300.0	0.8	0.8	89.56	0.5	60.0	60.0	58.3	1.69	35.492	
400.0	400.0	400.0	400.0	1.2	1.2	89.56	0.5	60.0	60.0	57.6	2.41	24.921	
500.0	500.0	500.0	500.0	1.6	1.6	89.56	0.5	60.0	60.0	56.9	3.12	19.202	
600.0	600.0	600.0	600.0	1.9	1.9	89.56	0.5	60.0	60.0	56.1	3.84	15.618	
700.0	700.0	700.0	700.0	2.3	2.3	89.56	0.5	60.0	60.0	55.4	4.56	13.161	
800.0	800.0	800.0	800.0	2.6	2.6	89.56	0.5	60.0	60.0	54.7	5.27	11.372	
900.0	900.0	900.0	900.0	3.0	3.0	89.56	0.5	60.0	60.0	54.0	5.99	10.012	
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	89.56	0.5	60.0	60.0	53.3	6.71	8.942	
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	89.56	0.5	60.0	60.0	52.6	7.43	8.078	
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	89.56	0.5	60.0	60.0	51.8	8.14	7.367	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	89.56	0.5	60.0	60.0	51.1	8.86	6.771	
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	89.56	0.5	60.0	60.0	50.4	9.58	6.264	
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	89.56	0.5	60.0	60.0	49.7	10.29	5.828	
1,600.0	1,600.0	1,600.0	1,600.0	5.5	5.5	89.56	0.5	60.0	60.0	49.0	11.01	5.448	
1,700.0	1,700.0	1,700.0	1,700.0	5.9	5.9	89.56	0.5	60.0	60.0	48.3	11.73	5.115	
1,800.0	1,800.0	1,800.0	1,800.0	6.2	6.2	89.56	0.5	60.0	60.0	47.5	12.44	4.821	
1,900.0	1,900.0	1,900.0	1,900.0	6.6	6.6	89.56	0.5	60.0	60.0	46.8	13.16	4.558	
2,000.0	2,000.0	2,000.0	2,000.0	6.9	6.9	89.56	0.5	60.0	60.0	46.1	13.88	4.323	
2,100.0	2,100.0	2,100.0	2,100.0	7.3	7.3	89.56	0.5	60.0	60.0	45.4	14.60	4.110	
2,200.0	2,200.0	2,200.0	2,200.0	7.7	7.7	89.56	0.5	60.0	60.0	44.7	15.31	3.918	
2,300.0	2,300.0	2,300.0	2,300.0	8.0	8.0	89.56	0.5	60.0	60.0	44.0	16.03	3.743	
2,400.0	2,400.0	2,400.0	2,400.0	8.4	8.4	89.56	0.5	60.0	60.0	43.2	16.75	3.582	
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	89.56	0.5	60.0	60.0	42.5	17.46	3.435	
2,600.0	2,600.0	2,600.0	2,600.0	9.1	9.1	89.56	0.5	60.0	60.0	41.8	18.18	3.300	
2,700.0	2,700.0	2,700.0	2,700.0	9.4	9.4	89.56	0.5	60.0	60.0	41.1	18.90	3.175	
2,800.0	2,800.0	2,800.0	2,800.0	9.8	9.8	89.56	0.5	60.0	60.0	40.4	19.61	3.059	
2,900.0	2,900.0	2,900.0	2,900.0	10.2	10.2	89.56	0.5	60.0	60.0	39.7	20.33	2.951	
3,000.0	3,000.0	3,000.0	3,000.0	10.5	10.5	89.56	0.5	60.0	60.0	38.9	21.05	2.850 CC	
3,100.0	3,100.0	3,100.5	3,100.5	10.9	10.9	133.10	1.2	59.6	60.2	38.4	21.76	2.766	
3,200.0	3,200.0	3,200.9	3,200.9	11.2	11.2	132.68	3.6	58.4	60.8	38.3	22.47	2.706 ES	
3,300.0	3,299.9	3,301.4	3,301.3	11.6	11.6	132.00	7.5	56.3	61.8	38.6	23.18	2.667	
3,400.0	3,399.7	3,401.9	3,401.5	11.9	12.0	131.09	13.0	53.5	63.3	39.4	23.89	2.648	
3,500.0	3,499.4	3,502.3	3,501.7	12.3	12.3	129.97	20.0	49.9	65.1	40.5	24.59	2.648	
3,600.0	3,598.9	3,602.7	3,601.6	12.7	12.7	128.69	28.6	45.5	67.4	42.1	25.30	2.665	
3,700.0	3,698.3	3,703.1	3,701.3	13.0	13.0	127.29	38.7	40.2	70.2	44.2	26.02	2.699	
3,800.0	3,797.4	3,803.5	3,800.8	13.4	13.4	125.81	50.4	34.2	73.5	46.7	26.74	2.748	
3,900.0	3,896.4	3,903.4	3,899.8	13.8	13.8	124.44	62.8	27.8	77.0	49.5	27.47	2.803	
4,000.0	3,995.5	4,003.3	3,998.7	14.1	14.1	123.19	75.1	21.4	80.6	52.4	28.20	2.856	
4,100.0	4,094.5	4,103.2	4,097.7	14.5	14.5	122.04	87.5	15.0	84.2	55.2	28.95	2.908	
4,200.0	4,193.5	4,203.1	4,196.6	14.9	14.9	121.00	99.9	8.6	87.8	58.1	29.69	2.957	
4,300.0	4,292.5	4,303.1	4,295.6	15.2	15.3	120.03	112.2	2.3	91.5	61.0	30.44	3.005	
4,400.0	4,391.6	4,403.0	4,394.5	15.6	15.6	119.14	124.6	-4.1	95.2	64.0	31.20	3.050	
4,500.0	4,490.6	4,502.9	4,493.5	16.0	16.0	118.32	136.9	-10.5	98.9	66.9	31.95	3.094	
4,600.0	4,589.6	4,602.8	4,592.4	16.4	16.4	117.55	149.3	-16.9	102.6	69.9	32.71	3.136	
4,700.0	4,688.6	4,702.8	4,691.4	16.8	16.8	116.84	161.6	-23.3	106.3	72.8	33.48	3.176	
4,800.0	4,787.7	4,802.7	4,790.3	17.2	17.2	116.18	174.0	-29.6	110.1	75.8	34.25	3.214	
4,900.0	4,886.7	4,902.6	4,889.3	17.6	17.6	115.56	186.3	-36.0	113.9	78.8	35.02	3.251	
5,000.0	4,985.7	5,002.5	4,988.2	17.9	18.0	114.98	198.7	-42.4	117.6	81.9	35.79	3.287	
5,100.0	5,084.8	5,102.4	5,087.2	18.3	18.3	114.44	211.0	-48.8	121.4	84.9	36.57	3.321	

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 #102H
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 #102H	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	
5,200.0	5,183.8	5,202.4	5,186.1	18.7	18.7	113.93	223.4	-55.2	125.2	87.9	37.35	3.353	
5,300.0	5,282.8	5,302.3	5,285.1	19.1	19.1	113.45	235.8	-61.6	129.1	90.9	38.13	3.385	
5,400.0	5,381.8	5,402.2	5,384.0	19.5	19.5	113.00	248.1	-67.9	132.9	94.0	38.92	3.415	
5,500.0	5,480.9	5,502.1	5,483.0	19.9	19.9	112.57	260.5	-74.3	136.7	97.0	39.70	3.444	
5,600.0	5,579.9	5,602.0	5,581.9	20.3	20.3	112.17	272.8	-80.7	140.6	100.1	40.49	3.471	
5,700.0	5,678.9	5,702.0	5,680.9	20.7	20.7	111.79	285.2	-87.1	144.4	103.1	41.28	3.498	
5,800.0	5,777.9	5,801.9	5,779.8	21.1	21.1	111.42	297.5	-93.5	148.3	106.2	42.07	3.524	
5,900.0	5,877.0	5,901.8	5,878.8	21.5	21.5	111.08	309.9	-99.9	152.1	109.2	42.86	3.549	
6,000.0	5,976.0	6,001.7	5,977.7	21.9	21.9	110.75	322.2	-106.2	156.0	112.3	43.66	3.573	
6,100.0	6,075.0	6,101.7	6,076.7	22.3	22.3	110.44	334.6	-112.6	159.8	115.4	44.45	3.596	
6,200.0	6,174.0	6,201.6	6,175.6	22.7	22.7	110.15	347.0	-119.0	163.7	118.5	45.25	3.618	
6,300.0	6,273.1	6,301.2	6,274.4	23.1	23.1	110.30	358.1	-124.8	167.7	121.6	46.04	3.642	
6,400.0	6,372.1	6,400.7	6,373.4	23.5	23.5	111.31	367.0	-129.4	171.8	125.0	46.80	3.672	
6,500.0	6,471.1	6,500.0	6,472.4	23.9	23.8	113.11	373.6	-132.8	176.4	128.8	47.54	3.710	
6,600.0	6,570.2	6,598.9	6,571.2	24.3	24.2	115.61	377.9	-135.0	181.5	133.2	48.25	3.761	
6,700.0	6,669.2	6,697.3	6,669.6	24.7	24.5	118.72	379.9	-136.0	187.4	138.5	48.93	3.831	
6,800.0	6,768.2	6,804.1	6,768.2	25.1	24.9	122.22	380.1	-136.1	194.5	144.9	49.60	3.921	
6,878.7	6,846.2	6,873.9	6,846.2	25.4	25.2	124.85	380.1	-136.1	200.6	150.5	50.08	4.005	
6,900.0	6,867.2	6,905.1	6,867.2	25.5	25.3	125.54	380.1	-136.1	202.3	152.0	50.26	4.025	
7,000.0	6,966.5	7,005.8	6,966.5	25.9	25.6	128.30	380.1	-136.1	209.6	158.6	50.92	4.116	
7,100.0	7,066.1	7,106.2	7,066.1	26.3	26.0	130.34	380.1	-136.1	215.6	164.0	51.58	4.179	
7,200.0	7,165.8	7,193.5	7,165.8	26.7	26.3	131.75	380.1	-136.1	220.1	167.9	52.21	4.215	
7,300.0	7,265.7	7,289.8	7,261.8	27.0	26.6	134.14	374.0	-135.4	223.6	170.9	52.75	4.239	
7,400.0	7,365.7	7,380.8	7,350.4	27.4	26.8	139.55	353.7	-133.1	228.7	175.7	52.96	4.318	
7,412.1	7,377.8	7,391.3	7,360.4	27.4	26.8	96.68	350.5	-132.8	229.6	176.6	52.95	4.335	
7,500.0	7,465.7	7,463.8	7,427.4	27.7	26.9	103.14	323.3	-129.7	239.7	187.1	52.53	4.563	
7,600.0	7,565.7	7,536.6	7,490.8	28.1	27.1	110.87	287.7	-125.7	261.8	210.7	51.03	5.130	
7,702.3	7,668.0	7,600.0	7,541.9	28.4	27.1	117.95	250.5	-121.6	298.0	249.7	48.36	6.163	
7,750.0	7,715.7	7,627.7	7,562.9	28.6	27.2	-58.61	232.5	-119.5	318.7	271.8	46.94	6.790	
7,800.0	7,765.2	7,656.0	7,583.3	28.7	27.2	-54.13	213.1	-117.4	341.1	295.7	45.37	7.518	
7,850.0	7,814.1	7,684.0	7,602.6	28.8	27.2	-50.20	192.9	-115.1	363.7	319.9	43.80	8.302	
7,900.0	7,861.8	7,711.8	7,620.8	28.9	27.3	-46.80	172.0	-112.8	386.0	343.8	42.26	9.136	
7,950.0	7,908.1	7,739.4	7,637.8	29.0	27.3	-43.86	150.4	-110.3	407.8	367.1	40.74	10.011	
8,000.0	7,952.5	7,766.9	7,653.7	29.1	27.3	-41.36	128.1	-107.8	428.9	389.6	39.27	10.922	
8,050.0	7,994.8	7,800.0	7,671.3	29.2	27.4	-39.09	100.3	-104.7	449.0	410.8	38.22	11.748	
8,100.0	8,034.5	7,821.5	7,681.9	29.3	27.4	-37.42	81.7	-102.6	467.8	431.3	36.54	12.804	
8,150.0	8,071.5	7,850.0	7,694.8	29.3	27.4	-35.90	56.4	-99.8	485.4	450.0	35.39	13.719	
8,200.0	8,105.4	7,875.6	7,705.4	29.3	27.5	-34.67	33.3	-97.2	501.7	467.5	34.20	14.669	
8,250.0	8,136.0	7,900.0	7,714.4	29.4	27.5	-33.65	10.7	-94.7	516.5	483.4	33.12	15.596	
8,300.0	8,163.0	7,929.4	7,724.0	29.4	27.6	-32.83	-16.8	-91.6	529.7	497.3	32.43	16.335	
8,350.0	8,186.3	7,950.0	7,729.9	29.4	27.6	-32.18	-36.5	-89.4	541.5	509.9	31.60	17.136	
8,400.0	8,205.6	7,983.0	7,737.9	29.4	27.7	-31.74	-68.3	-85.8	551.5	520.1	31.40	17.565	
8,450.0	8,220.8	8,009.7	7,742.9	29.4	27.7	-31.44	-94.3	-82.9	559.9	528.7	31.20	17.944	
8,500.0	8,231.9	8,036.4	7,746.8	29.4	27.8	-31.29	-120.6	-79.9	566.7	535.4	31.24	18.140	
8,550.0	8,238.6	8,063.1	7,749.4	29.5	27.8	-31.29	-147.0	-77.0	571.7	540.2	31.51	18.147	
8,602.3	8,241.0	8,091.0	7,750.8	29.7	27.9	-31.44	-174.7	-73.9	575.2	543.2	32.03	17.959	
8,694.2	8,241.0	8,177.5	7,751.0	30.0	28.2	-32.32	-260.8	-65.1	580.3	547.2	33.09	17.536	
8,700.0	8,241.0	8,183.9	7,751.0	30.0	28.2	-32.36	-267.2	-64.6	580.6	547.4	33.15	17.513	
8,800.0	8,241.0	8,296.1	7,751.0	30.4	28.7	-32.89	-379.1	-57.3	583.7	549.5	34.13	17.099	
8,900.0	8,241.0	8,408.6	7,751.0	30.9	29.2	-33.06	-491.5	-54.4	584.6	549.6	35.05	16.682	
8,911.8	8,241.0	8,421.9	7,751.0	31.0	29.3	-33.05	-504.8	-54.4	584.6	549.5	35.15	16.633	
9,000.0	8,241.0	8,508.0	7,751.0	31.5	29.8	-33.06	-591.0	-53.7	584.6	548.7	35.96	16.258	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Boros Federal #102H
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 #102H	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-MWMD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,100.0	8,241.0	8,608.0	7,751.0	32.1	30.5	-33.06	-691.0	-52.9	584.6	547.6	36.99	15.805		
9,200.0	8,241.0	8,708.0	7,751.0	32.8	31.2	-33.06	-791.0	-52.1	584.6	546.5	38.12	15.337		
9,300.0	8,241.0	8,808.0	7,751.0	33.6	32.0	-33.06	-891.0	-51.4	584.6	545.3	39.34	14.860		
9,400.0	8,241.0	8,908.0	7,751.0	34.4	32.9	-33.06	-991.0	-50.6	584.6	544.0	40.65	14.382		
9,500.0	8,241.0	9,008.0	7,751.0	35.3	33.8	-33.06	-1,091.0	-49.8	584.6	542.6	42.04	13.907		
9,600.0	8,241.0	9,108.0	7,751.0	36.3	34.8	-33.06	-1,190.9	-49.1	584.6	541.1	43.49	13.442		
9,700.0	8,241.0	9,208.0	7,751.0	37.2	35.8	-33.06	-1,290.9	-48.3	584.6	539.6	45.01	12.988		
9,800.0	8,241.0	9,308.0	7,751.0	38.3	36.9	-33.06	-1,390.9	-47.5	584.6	538.0	46.59	12.548		
9,900.0	8,241.0	9,408.0	7,751.0	39.3	38.0	-33.06	-1,490.9	-46.8	584.6	536.4	48.22	12.124		
10,000.0	8,241.0	9,508.0	7,751.0	40.5	39.2	-33.06	-1,590.9	-46.0	584.6	534.7	49.90	11.717		
10,100.0	8,241.0	9,608.0	7,751.0	41.6	40.4	-33.06	-1,690.9	-45.2	584.6	533.0	51.61	11.327		
10,200.0	8,241.0	9,708.0	7,751.0	42.8	41.6	-33.06	-1,790.9	-44.5	584.6	531.3	53.37	10.955		
10,300.0	8,241.0	9,808.0	7,751.0	44.0	42.9	-33.06	-1,890.9	-43.7	584.6	529.5	55.16	10.600		
10,400.0	8,241.0	9,908.0	7,751.0	45.2	44.1	-33.06	-1,990.9	-42.9	584.6	527.7	56.98	10.261		
10,500.0	8,241.0	10,008.0	7,751.0	46.5	45.4	-33.06	-2,090.9	-42.2	584.6	525.8	58.83	9.938		
10,600.0	8,241.0	10,108.0	7,751.0	47.8	46.7	-33.06	-2,190.9	-41.4	584.6	523.9	60.70	9.632		
10,700.0	8,241.0	10,208.0	7,751.0	49.1	48.1	-33.06	-2,290.9	-40.6	584.6	522.0	62.60	9.340		
10,800.0	8,241.0	10,308.0	7,751.0	50.4	49.5	-33.06	-2,390.9	-39.9	584.6	520.1	64.52	9.062		
10,900.0	8,241.0	10,408.0	7,751.0	51.7	50.8	-33.06	-2,490.9	-39.1	584.6	518.2	66.45	8.798		
11,000.0	8,241.0	10,508.0	7,751.0	53.1	52.2	-33.06	-2,590.9	-38.3	584.6	516.2	68.41	8.546		
11,100.0	8,241.0	10,608.0	7,751.0	54.5	53.6	-33.06	-2,690.9	-37.6	584.6	514.3	70.38	8.307		
11,200.0	8,241.0	10,708.0	7,751.0	55.9	55.0	-33.06	-2,790.9	-36.8	584.6	512.3	72.37	8.079		
11,300.0	8,241.0	10,808.0	7,751.0	57.3	56.5	-33.06	-2,890.9	-36.0	584.6	510.3	74.37	7.861		
11,400.0	8,241.0	10,908.0	7,751.0	58.7	57.9	-33.06	-2,990.9	-35.3	584.6	508.3	76.38	7.654		
11,500.0	8,241.0	11,008.0	7,751.0	60.1	59.4	-33.06	-3,090.9	-34.5	584.6	506.2	78.41	7.456		
11,600.0	8,241.0	11,108.0	7,751.0	61.6	60.8	-33.06	-3,190.9	-33.7	584.6	504.2	80.45	7.268		
11,700.0	8,241.0	11,208.0	7,751.0	63.0	62.3	-33.06	-3,290.9	-33.0	584.6	502.1	82.49	7.087		
11,800.0	8,241.0	11,308.0	7,751.0	64.5	63.8	-33.06	-3,390.9	-32.2	584.6	500.1	84.55	6.915		
11,900.0	8,241.0	11,408.0	7,751.0	66.0	65.3	-33.06	-3,490.9	-31.4	584.6	498.0	86.61	6.750		
12,000.0	8,241.0	11,508.0	7,751.0	67.4	66.8	-33.06	-3,590.9	-30.7	584.6	496.0	88.68	6.592		
12,100.0	8,241.0	11,608.0	7,751.0	68.9	68.3	-33.06	-3,690.9	-29.9	584.6	493.9	90.76	6.441		
12,200.0	8,241.0	11,708.0	7,751.0	70.4	69.8	-33.06	-3,790.9	-29.1	584.6	491.8	92.85	6.297		
12,300.0	8,241.0	11,808.0	7,751.0	71.9	71.3	-33.06	-3,890.9	-28.4	584.6	489.7	94.94	6.158		
12,400.0	8,241.0	11,908.0	7,751.0	73.4	72.8	-33.06	-3,990.9	-27.6	584.6	487.6	97.04	6.025		
12,500.0	8,241.0	12,008.0	7,751.0	74.9	74.4	-33.06	-4,090.9	-26.8	584.6	485.5	99.15	5.897		
12,600.0	8,241.0	12,108.0	7,751.0	76.4	75.9	-33.06	-4,190.9	-26.0	584.6	483.4	101.26	5.774		
12,700.0	8,241.0	12,208.0	7,751.0	78.0	77.4	-33.06	-4,290.9	-25.3	584.6	481.3	103.37	5.656		
12,800.0	8,241.0	12,308.0	7,751.0	79.5	79.0	-33.06	-4,390.9	-24.5	584.6	479.2	105.49	5.542		
12,900.0	8,241.0	12,408.0	7,751.0	81.0	80.5	-33.06	-4,490.9	-23.7	584.6	477.0	107.62	5.433		
13,000.0	8,241.0	12,508.0	7,751.0	82.6	82.1	-33.06	-4,590.8	-23.0	584.6	474.9	109.75	5.327		
13,100.0	8,241.0	12,608.0	7,751.0	84.1	83.6	-33.06	-4,690.8	-22.2	584.6	472.8	111.88	5.226		
13,200.0	8,241.0	12,708.0	7,751.0	85.6	85.2	-33.06	-4,790.8	-21.4	584.6	470.6	114.01	5.128		
13,300.0	8,241.0	12,808.0	7,751.0	87.2	86.8	-33.06	-4,890.8	-20.7	584.6	468.5	116.15	5.033		
13,400.0	8,241.0	12,908.0	7,751.0	88.7	88.3	-33.06	-4,990.8	-19.9	584.6	466.3	118.30	4.942		
13,500.0	8,241.0	13,008.0	7,751.0	90.3	89.9	-33.06	-5,090.8	-19.1	584.6	464.2	120.44	4.854		
13,600.0	8,241.0	13,108.0	7,751.0	91.9	91.5	-33.06	-5,190.8	-18.4	584.6	462.1	122.59	4.769		
13,700.0	8,241.0	13,208.0	7,751.0	93.4	93.0	-33.06	-5,290.8	-17.6	584.6	459.9	124.74	4.687		
13,800.0	8,241.0	13,308.0	7,751.0	95.0	94.6	-33.06	-5,390.8	-16.8	584.6	457.7	126.90	4.607		
13,900.0	8,241.0	13,408.0	7,751.0	96.6	96.2	-33.06	-5,490.8	-16.1	584.6	455.6	129.06	4.530		
14,000.0	8,241.0	13,508.0	7,751.0	98.1	97.8	-33.06	-5,590.8	-15.3	584.6	453.4	131.22	4.456		
14,100.0	8,241.0	13,608.0	7,751.0	99.7	99.4	-33.06	-5,690.8	-14.5	584.6	451.3	133.38	4.383		
14,200.0	8,241.0	13,708.0	7,751.0	101.3	100.9	-33.06	-5,790.8	-13.8	584.6	449.1	135.54	4.313		

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 #102H
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 #102H	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	
14,300.0	8,241.0	13,808.0	7,751.0	102.9	102.5	-33.06	-5,890.8	-13.0	584.7	446.9	137.71	4.246	
14,400.0	8,241.0	13,908.0	7,751.0	104.4	104.1	-33.06	-5,990.8	-12.2	584.7	444.8	139.88	4.180	
14,500.0	8,241.0	14,008.0	7,751.0	106.0	105.7	-33.06	-6,090.8	-11.5	584.7	442.6	142.05	4.116	
14,600.0	8,241.0	14,108.0	7,751.0	107.6	107.3	-33.06	-6,190.8	-10.7	584.7	440.4	144.22	4.054	
14,700.0	8,241.0	14,208.0	7,751.0	109.2	108.9	-33.06	-6,290.8	-9.9	584.7	438.3	146.39	3.994	
14,800.0	8,241.0	14,308.0	7,751.0	110.8	110.5	-33.06	-6,390.8	-9.2	584.7	436.1	148.57	3.935	
14,900.0	8,241.0	14,408.0	7,751.0	112.4	112.1	-33.06	-6,490.8	-8.4	584.7	433.9	150.75	3.878	
15,000.0	8,241.0	14,508.0	7,751.0	114.0	113.7	-33.06	-6,590.8	-7.6	584.7	431.7	152.92	3.823	
15,100.0	8,241.0	14,608.0	7,751.0	115.6	115.3	-33.06	-6,690.8	-6.9	584.7	429.5	155.11	3.769	
15,200.0	8,241.0	14,708.0	7,751.0	117.1	116.9	-33.06	-6,790.8	-6.1	584.7	427.4	157.29	3.717	
15,300.0	8,241.0	14,808.0	7,751.0	118.7	118.5	-33.06	-6,890.8	-5.3	584.7	425.2	159.47	3.666	
15,400.0	8,241.0	14,908.0	7,751.0	120.3	120.1	-33.06	-6,990.8	-4.6	584.7	423.0	161.65	3.617	
15,500.0	8,241.0	15,008.0	7,751.0	121.9	121.7	-33.06	-7,090.8	-3.8	584.7	420.8	163.84	3.568	
15,600.0	8,241.0	15,108.0	7,751.0	123.5	123.3	-33.06	-7,190.8	-3.0	584.7	418.6	166.03	3.521	
15,700.0	8,241.0	15,208.0	7,751.0	125.1	124.9	-33.06	-7,290.8	-2.3	584.7	416.4	168.21	3.476	
15,800.0	8,241.0	15,308.0	7,751.0	126.7	126.5	-33.06	-7,390.8	-1.5	584.7	414.3	170.40	3.431	
15,900.0	8,241.0	15,408.0	7,751.0	128.3	128.1	-33.06	-7,490.8	-0.7	584.7	412.1	172.59	3.388	
16,000.0	8,241.0	15,508.0	7,751.0	129.9	129.7	-33.06	-7,590.8	0.0	584.7	409.9	174.78	3.345	
16,100.0	8,241.0	15,608.0	7,751.0	131.6	131.4	-33.06	-7,690.8	0.8	584.7	407.7	176.97	3.304	
16,200.0	8,241.0	15,708.0	7,751.0	133.2	133.0	-33.06	-7,790.8	1.6	584.7	405.5	179.17	3.263	
16,300.0	8,241.0	15,808.0	7,751.0	134.8	134.6	-33.06	-7,890.8	2.3	584.7	403.3	181.36	3.224	
16,400.0	8,241.0	15,908.0	7,751.0	136.4	136.2	-33.06	-7,990.7	3.1	584.7	401.1	183.56	3.185	
16,500.0	8,241.0	16,008.0	7,751.0	138.0	137.8	-33.06	-8,090.7	3.9	584.7	398.9	185.75	3.148	
16,600.0	8,241.0	16,108.0	7,751.0	139.6	139.4	-33.06	-8,190.7	4.6	584.7	396.7	187.95	3.111	
16,700.0	8,241.0	16,208.0	7,751.0	141.2	141.0	-33.06	-8,290.7	5.4	584.7	394.5	190.14	3.075	
16,800.0	8,241.0	16,308.0	7,751.0	142.8	142.7	-33.06	-8,390.7	6.2	584.7	392.3	192.34	3.040	
16,900.0	8,241.0	16,408.0	7,751.0	144.4	144.3	-33.06	-8,490.7	6.9	584.7	390.1	194.54	3.005	
17,000.0	8,241.0	16,508.0	7,751.0	146.1	145.9	-33.06	-8,590.7	7.7	584.7	387.9	196.74	2.972	
17,100.0	8,241.0	16,608.0	7,751.0	147.7	147.5	-33.06	-8,690.7	8.5	584.7	385.7	198.94	2.939	
17,200.0	8,241.0	16,708.0	7,751.0	149.3	149.1	-33.06	-8,790.7	9.2	584.7	383.5	201.14	2.907	
17,300.0	8,241.0	16,808.0	7,751.0	150.9	150.8	-33.06	-8,890.7	10.0	584.7	381.3	203.34	2.875	
17,400.0	8,241.0	16,908.0	7,751.0	152.5	152.4	-33.06	-8,990.7	10.8	584.7	379.1	205.54	2.844	
17,500.0	8,241.0	17,008.0	7,751.0	154.1	154.0	-33.06	-9,090.7	11.5	584.7	376.9	207.75	2.814	
17,600.0	8,241.0	17,108.0	7,751.0	155.8	155.6	-33.06	-9,190.7	12.3	584.7	374.7	209.95	2.785	
17,700.0	8,241.0	17,208.0	7,751.0	157.4	157.2	-33.06	-9,290.7	13.1	584.7	372.5	212.15	2.756	
17,800.0	8,241.0	17,308.0	7,751.0	159.0	158.9	-33.06	-9,390.7	13.8	584.7	370.3	214.36	2.728	
17,900.0	8,241.0	17,408.0	7,751.0	160.6	160.5	-33.06	-9,490.7	14.6	584.7	368.1	216.56	2.700	
18,000.0	8,241.0	17,508.0	7,751.0	162.2	162.1	-33.06	-9,590.7	15.4	584.7	365.9	218.77	2.673	
18,100.0	8,241.0	17,608.0	7,751.0	163.9	163.7	-33.06	-9,690.7	16.1	584.7	363.7	220.97	2.646	
18,200.0	8,241.0	17,708.0	7,751.0	165.5	165.4	-33.06	-9,790.7	16.9	584.7	361.5	223.18	2.620	
18,300.0	8,241.0	17,808.0	7,751.0	167.1	167.0	-33.06	-9,890.7	17.7	584.7	359.3	225.38	2.594	
18,400.0	8,241.0	17,908.0	7,751.0	168.7	168.6	-33.06	-9,990.7	18.4	584.7	357.1	227.59	2.569	
18,500.0	8,241.0	18,008.0	7,751.0	170.3	170.2	-33.06	-10,090.7	19.2	584.7	354.9	229.80	2.544	
18,541.8	8,241.0	18,049.8	7,751.0	171.0	170.9	-33.06	-10,132.5	19.5	584.7	353.9	230.72	2.534	
18,542.4	8,241.0	18,050.4	7,751.0	171.0	170.9	-33.06	-10,133.0	19.5	584.7	353.9	230.73	2.534 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 #102H
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 #102H	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	89.56	0.2	30.0	30.0				
100.0	100.0	100.0	100.0	0.1	0.1	89.56	0.2	30.0	30.0	29.7	0.26	117.025	
200.0	200.0	200.0	200.0	0.5	0.5	89.56	0.2	30.0	30.0	29.0	0.97	30.819	
300.0	300.0	300.0	300.0	0.8	0.8	89.56	0.2	30.0	30.0	28.3	1.69	17.746	
400.0	400.0	400.0	400.0	1.2	1.2	89.56	0.2	30.0	30.0	27.6	2.41	12.461	
500.0	500.0	500.0	500.0	1.6	1.6	89.56	0.2	30.0	30.0	26.9	3.12	9.601	
600.0	600.0	600.0	600.0	1.9	1.9	89.56	0.2	30.0	30.0	26.2	3.84	7.809	
700.0	700.0	700.0	700.0	2.3	2.3	89.56	0.2	30.0	30.0	25.4	4.56	6.581	
800.0	800.0	800.0	800.0	2.6	2.6	89.56	0.2	30.0	30.0	24.7	5.27	5.686	
900.0	900.0	900.0	900.0	3.0	3.0	89.56	0.2	30.0	30.0	24.0	5.99	5.006	
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	89.56	0.2	30.0	30.0	23.3	6.71	4.471	
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	89.56	0.2	30.0	30.0	22.6	7.43	4.039	
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	89.56	0.2	30.0	30.0	21.9	8.14	3.684	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	89.56	0.2	30.0	30.0	21.1	8.86	3.386	
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	89.56	0.2	30.0	30.0	20.4	9.58	3.132	
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	89.56	0.2	30.0	30.0	19.7	10.29	2.914 CC	
1,600.0	1,600.0	1,599.7	1,599.7	5.5	5.5	88.31	0.9	30.5	30.6	19.6	11.01	2.776 ES	
1,700.0	1,700.0	1,699.3	1,699.2	5.9	5.9	84.83	2.9	32.2	32.3	20.6	11.72	2.759 SF	
1,800.0	1,800.0	1,798.7	1,798.6	6.2	6.2	79.84	6.3	34.9	35.5	23.1	12.42	2.858	
1,900.0	1,900.0	1,898.0	1,897.7	6.6	6.6	74.24	10.9	38.7	40.3	27.2	13.12	3.072	
2,000.0	2,000.0	1,997.1	1,996.5	6.9	6.9	68.80	16.9	43.6	46.9	33.1	13.82	3.396	
2,100.0	2,100.0	2,095.8	2,094.8	7.3	7.3	63.98	24.2	49.6	55.4	40.9	14.51	3.819	
2,200.0	2,200.0	2,194.2	2,192.6	7.7	7.6	59.92	32.8	56.6	65.8	50.6	15.19	4.331	
2,300.0	2,300.0	2,307.9	2,289.6	8.0	8.1	56.61	42.6	64.6	78.0	62.1	15.92	4.901	
2,400.0	2,400.0	2,408.8	2,387.7	8.4	8.4	54.01	53.2	73.3	91.4	74.8	16.64	5.495	
2,500.0	2,500.0	2,509.8	2,485.8	8.7	8.8	52.07	63.9	82.0	105.0	87.6	17.35	6.048	
2,600.0	2,600.0	2,589.2	2,583.8	9.1	9.1	50.58	74.6	90.7	118.6	100.6	17.99	6.589	
2,700.0	2,700.0	2,688.3	2,681.9	9.4	9.5	49.40	85.3	99.5	132.2	113.5	18.71	7.070	
2,800.0	2,800.0	2,787.3	2,779.9	9.8	9.9	48.44	95.9	108.2	146.0	126.6	19.42	7.517	
2,900.0	2,900.0	2,886.3	2,878.0	10.2	10.3	47.64	106.6	116.9	159.7	139.6	20.13	7.933	
3,000.0	3,000.0	2,985.3	2,976.1	10.5	10.7	46.97	117.3	125.6	173.5	152.7	20.85	8.323	
3,100.0	3,100.0	3,084.4	3,074.1	10.9	11.1	90.21	127.9	134.3	187.3	165.8	21.56	8.688	
3,200.0	3,200.0	3,183.4	3,172.2	11.2	11.4	90.31	138.6	143.1	201.1	178.9	22.27	9.030	
3,300.0	3,299.9	3,282.4	3,270.3	11.6	11.8	90.85	149.3	151.8	215.0	192.0	22.99	9.352	
3,400.0	3,399.7	3,381.4	3,368.2	11.9	12.2	91.75	160.0	160.5	228.9	205.2	23.70	9.657	
3,500.0	3,499.4	3,480.2	3,466.1	12.3	12.6	92.94	170.6	169.2	243.0	218.5	24.42	9.949	
3,600.0	3,598.9	3,578.9	3,563.9	12.7	13.0	94.37	181.3	177.9	257.3	232.1	25.14	10.233	
3,700.0	3,698.3	3,677.5	3,661.5	13.0	13.4	95.99	191.9	186.6	271.9	246.1	25.87	10.514	
3,800.0	3,797.4	3,775.9	3,759.0	13.4	13.8	97.78	202.5	195.2	287.1	260.5	26.60	10.794	
3,900.0	3,896.4	3,874.2	3,856.3	13.8	14.2	99.68	213.1	203.9	302.6	275.3	27.33	11.074	
4,000.0	3,995.5	3,972.5	3,953.7	14.1	14.6	101.40	223.7	212.5	318.5	290.4	28.07	11.348	
4,100.0	4,094.5	4,070.8	4,051.0	14.5	15.0	102.96	234.3	221.2	334.6	305.8	28.81	11.615	
4,200.0	4,193.5	4,169.1	4,148.3	14.9	15.4	104.37	244.9	229.9	350.9	321.4	29.55	11.876	
4,300.0	4,292.5	4,267.4	4,245.7	15.2	15.8	105.66	255.5	238.5	367.5	337.2	30.30	12.129	
4,400.0	4,391.6	4,365.7	4,343.0	15.6	16.2	106.83	266.0	247.2	384.2	353.1	31.05	12.374	
4,500.0	4,490.6	4,464.0	4,440.4	16.0	16.6	107.91	276.6	255.8	401.0	369.2	31.80	12.612	
4,600.0	4,589.6	4,562.3	4,537.7	16.4	17.0	108.90	287.2	264.5	418.0	385.4	32.55	12.842	
4,700.0	4,688.6	4,660.6	4,635.1	16.8	17.4	109.82	297.8	273.1	435.0	401.7	33.30	13.064	
4,800.0	4,787.7	4,758.9	4,732.4	17.2	17.8	110.66	308.4	281.8	452.2	418.2	34.06	13.278	
4,900.0	4,886.7	4,857.2	4,829.8	17.6	18.2	111.45	319.0	290.4	469.5	434.7	34.81	13.486	
5,000.0	4,985.7	4,955.5	4,927.1	17.9	18.6	112.18	329.6	299.1	486.8	451.3	35.57	13.686	
5,100.0	5,084.8	5,053.8	5,024.5	18.3	19.0	112.85	340.2	307.8	504.3	467.9	36.33	13.879	

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 #102H
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 #102H	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	5,183.8	5,152.2	5,121.8	18.7	19.4	113.49	350.8	316.4	521.7	484.6	37.09	14.066		
5,300.0	5,282.8	5,260.7	5,229.4	19.1	19.9	114.19	361.8	325.4	538.6	500.6	37.95	14.193		
5,400.0	5,381.8	5,372.9	5,341.0	19.5	20.3	115.05	370.7	332.6	553.1	514.3	38.81	14.252		
5,500.0	5,480.9	5,485.6	5,453.4	19.9	20.7	116.05	377.0	337.8	565.3	525.6	39.65	14.258		
5,600.0	5,579.9	5,598.6	5,566.3	20.3	21.1	117.20	380.8	341.0	575.2	534.7	40.45	14.218		
5,700.0	5,678.9	5,711.6	5,679.3	20.7	21.5	118.49	382.1	342.0	582.9	541.6	41.24	14.135		
5,800.0	5,777.9	5,810.2	5,777.9	21.1	21.8	119.66	382.1	342.0	589.7	547.7	41.97	14.049		
5,900.0	5,877.0	5,909.3	5,877.0	21.5	22.2	120.82	382.1	342.0	596.7	554.0	42.71	13.972		
6,000.0	5,976.0	6,008.3	5,976.0	21.9	22.5	121.94	382.1	342.0	604.0	560.6	43.45	13.903		
6,100.0	6,075.0	6,107.3	6,075.0	22.3	22.8	123.04	382.1	342.0	611.6	567.4	44.18	13.842		
6,200.0	6,174.0	6,206.4	6,174.0	22.7	23.2	124.11	382.1	342.0	619.3	574.4	44.92	13.788		
6,300.0	6,273.1	6,305.4	6,273.1	23.1	23.5	125.16	382.1	342.0	627.3	581.6	45.65	13.741		
6,400.0	6,372.1	6,404.4	6,372.1	23.5	23.8	126.18	382.1	342.0	635.5	589.1	46.38	13.701		
6,500.0	6,471.1	6,503.4	6,471.1	23.9	24.2	127.17	382.1	342.0	643.8	596.7	47.11	13.666		
6,600.0	6,570.2	6,602.5	6,570.2	24.3	24.5	128.14	382.1	342.0	652.4	604.5	47.84	13.636		
6,700.0	6,669.2	6,701.5	6,669.2	24.7	24.8	129.08	382.1	342.0	661.1	612.5	48.57	13.611		
6,800.0	6,768.2	6,800.5	6,768.2	25.1	25.2	130.00	382.1	342.0	670.0	620.7	49.30	13.591		
6,878.7	6,846.2	6,878.5	6,846.2	25.4	25.4	130.71	382.1	342.0	677.2	627.3	49.87	13.578		
6,900.0	6,867.2	6,900.4	6,867.2	25.5	25.5	130.91	382.1	342.0	679.1	629.0	50.03	13.574		
7,000.0	6,966.5	7,001.2	6,966.5	25.9	25.8	131.76	382.1	342.0	687.1	636.3	50.76	13.537		
7,100.0	7,066.1	7,101.6	7,066.1	26.3	26.2	132.41	382.1	342.0	693.4	642.0	51.47	13.471		
7,200.0	7,165.8	7,201.9	7,165.8	26.7	26.5	132.88	382.1	342.0	698.1	645.9	52.18	13.377		
7,300.0	7,265.7	7,302.0	7,265.7	27.0	26.9	133.17	382.1	342.0	701.0	648.1	52.89	13.254		
7,400.0	7,365.7	7,402.0	7,365.7	27.4	27.2	133.27	382.1	342.0	702.1	648.5	53.58	13.102		
7,412.1	7,377.8	7,410.1	7,377.8	27.4	27.2	89.59	382.1	342.0	702.1	648.4	53.65	13.086		
7,500.0	7,465.7	7,502.0	7,465.7	27.7	27.6	89.59	382.1	342.0	702.1	647.8	54.28	12.936		
7,600.0	7,565.7	7,602.0	7,565.7	28.1	27.9	89.59	382.1	342.0	702.1	647.1	54.97	12.773		
7,702.3	7,668.0	7,700.3	7,668.0	28.4	28.2	89.59	382.1	342.0	702.1	646.4	55.66	12.613		
7,750.0	7,715.7	7,748.0	7,715.7	28.6	28.4	-91.96	382.1	342.0	702.2	646.2	55.98	12.542		
7,800.0	7,765.2	7,802.5	7,765.2	28.7	28.6	-92.45	382.1	342.0	702.4	646.1	56.31	12.473		
7,850.0	7,814.1	7,846.4	7,814.1	28.8	28.7	-93.24	382.1	342.0	702.9	646.4	56.59	12.421		
7,900.0	7,861.8	7,905.9	7,861.8	28.9	28.9	-94.29	382.1	342.0	704.0	647.1	56.92	12.368		
7,950.0	7,908.1	7,940.4	7,908.1	29.0	29.1	-95.53	382.1	342.0	705.7	648.6	57.14	12.351		
8,000.0	7,952.5	7,984.8	7,952.5	29.1	29.2	-96.90	382.1	342.0	708.5	651.1	57.39	12.347		
8,050.0	7,994.8	8,027.1	7,994.8	29.2	29.4	-98.29	382.1	342.0	712.7	655.1	57.61	12.371		
8,100.0	8,034.5	8,066.8	8,034.5	29.3	29.5	-99.62	382.1	342.0	718.6	660.8	57.82	12.428		
8,150.0	8,071.5	8,103.8	8,071.5	29.3	29.6	-100.79	382.1	342.0	726.6	668.6	58.01	12.525		
8,200.0	8,105.4	8,137.7	8,105.4	29.3	29.7	-101.70	382.1	342.0	737.0	678.8	58.18	12.667		
8,250.0	8,136.0	8,168.3	8,136.0	29.4	29.8	-102.27	382.1	342.0	750.0	691.6	58.33	12.858		
8,300.0	8,163.0	8,195.4	8,163.0	29.4	29.9	-102.41	382.1	342.0	765.8	707.4	58.46	13.100		
8,350.0	8,186.3	8,228.5	8,186.2	29.4	30.0	-102.72	381.9	341.9	784.6	726.0	58.59	13.391		
8,400.0	8,205.6	8,400.0	8,252.4	29.4	30.5	-104.36	377.3	341.5	805.0	746.0	59.02	13.640		
8,450.0	8,220.8	8,450.0	8,394.6	29.4	30.6	-111.38	340.8	338.1	825.4	767.4	57.94	14.245		
8,500.0	8,231.9	8,788.6	8,664.8	29.4	31.0	-124.34	118.8	317.1	840.9	788.6	52.29	16.082		
8,550.0	8,238.6	9,128.6	8,755.0	29.5	31.4	-127.68	-202.6	286.7	839.7	790.0	49.72	16.889		
8,602.3	8,241.0	9,170.9	8,755.0	29.7	31.5	-127.98	-244.8	283.3	835.9	786.0	49.95	16.734		
8,694.2	8,241.0	9,245.6	8,755.0	30.0	31.7	-128.19	-319.3	278.7	832.1	781.8	50.30	16.542		
8,700.0	8,241.0	9,250.3	8,755.0	30.0	31.7	-128.21	-324.0	278.5	831.8	781.5	50.33	16.529		
8,800.0	8,241.0	9,331.7	8,755.0	30.4	32.1	-128.35	-405.4	275.8	828.7	777.8	50.85	16.298		
8,884.4	8,241.0	9,413.5	8,755.0	30.9	32.4	-128.39	-472.8	275.4	827.7	776.3	51.47	16.082		
8,900.0	8,241.0	9,414.8	8,755.0	30.9	32.4	-128.39	-488.4	275.5	827.7	776.2	51.55	16.058		
9,000.0	8,241.0	9,514.8	8,755.0	31.5	32.9	-128.39	-588.4	276.2	827.7	775.2	52.51	15.765		

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 #102H
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 #102H	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-MWMD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,100.0	8,241.0	9,614.8	8,755.0	32.1	33.5	-128.39	-688.4	277.0	827.7	774.1	53.59	15.446	
9,200.0	8,241.0	9,714.8	8,755.0	32.8	34.2	-128.39	-788.4	277.8	827.7	772.9	54.79	15.107	
9,300.0	8,241.0	9,814.8	8,755.0	33.6	34.9	-128.39	-888.4	278.5	827.7	771.6	56.10	14.754	
9,400.0	8,241.0	9,914.8	8,755.0	34.4	35.7	-128.39	-988.4	279.3	827.7	770.2	57.52	14.391	
9,500.0	8,241.0	10,014.8	8,755.0	35.3	36.5	-128.39	-1,088.4	280.1	827.7	768.7	59.03	14.023	
9,600.0	8,241.0	10,114.8	8,755.0	36.3	37.4	-128.39	-1,188.4	280.8	827.7	767.1	60.62	13.654	
9,700.0	8,241.0	10,214.8	8,755.0	37.2	38.4	-128.39	-1,288.4	281.6	827.7	765.4	62.30	13.286	
9,800.0	8,241.0	10,314.8	8,755.0	38.3	39.4	-128.39	-1,388.4	282.4	827.7	763.7	64.06	12.922	
9,900.0	8,241.0	10,414.8	8,755.0	39.3	40.4	-128.39	-1,488.4	283.2	827.7	761.9	65.88	12.564	
10,000.0	8,241.0	10,514.8	8,755.0	40.5	41.5	-128.39	-1,588.4	283.9	827.7	760.0	67.77	12.214	
10,100.0	8,241.0	10,614.8	8,755.0	41.6	42.6	-128.39	-1,688.4	284.7	827.8	758.0	69.71	11.873	
10,200.0	8,241.0	10,714.8	8,755.0	42.8	43.7	-128.39	-1,788.4	285.5	827.8	756.0	71.71	11.543	
10,300.0	8,241.0	10,814.8	8,755.0	44.0	44.9	-128.39	-1,888.4	286.2	827.8	754.0	73.76	11.222	
10,400.0	8,241.0	10,914.8	8,755.0	45.2	46.1	-128.39	-1,988.4	287.0	827.8	751.9	75.86	10.912	
10,500.0	8,241.0	11,014.8	8,755.0	46.5	47.3	-128.39	-2,088.4	287.8	827.8	749.8	77.99	10.614	
10,600.0	8,241.0	11,114.8	8,755.0	47.8	48.6	-128.39	-2,188.4	288.5	827.8	747.6	80.16	10.326	
10,700.0	8,241.0	11,214.8	8,755.0	49.1	49.8	-128.39	-2,288.4	289.3	827.8	745.4	82.37	10.049	
10,800.0	8,241.0	11,314.8	8,755.0	50.4	51.1	-128.39	-2,388.4	290.1	827.8	743.1	84.61	9.783	
10,900.0	8,241.0	11,414.8	8,755.0	51.7	52.5	-128.39	-2,488.4	290.8	827.8	740.9	86.88	9.527	
11,000.0	8,241.0	11,514.8	8,755.0	53.1	53.8	-128.39	-2,588.4	291.6	827.8	738.6	89.18	9.282	
11,100.0	8,241.0	11,614.8	8,755.0	54.5	55.1	-128.39	-2,688.4	292.4	827.8	736.3	91.51	9.046	
11,200.0	8,241.0	11,714.8	8,755.0	55.9	56.5	-128.39	-2,788.4	293.1	827.8	733.9	93.86	8.820	
11,300.0	8,241.0	11,814.8	8,755.0	57.3	57.9	-128.39	-2,888.4	293.9	827.8	731.5	96.23	8.602	
11,400.0	8,241.0	11,914.8	8,755.0	58.7	59.3	-128.39	-2,988.4	294.7	827.8	729.2	98.62	8.394	
11,500.0	8,241.0	12,014.8	8,755.0	60.1	60.7	-128.39	-3,088.4	295.4	827.8	726.7	101.03	8.194	
11,600.0	8,241.0	12,114.8	8,755.0	61.6	62.1	-128.39	-3,188.3	296.2	827.8	724.3	103.45	8.001	
11,700.0	8,241.0	12,214.8	8,755.0	63.0	63.6	-128.38	-3,288.3	297.0	827.8	721.9	105.90	7.817	
11,800.0	8,241.0	12,314.8	8,755.0	64.5	65.0	-128.38	-3,388.3	297.8	827.8	719.4	108.35	7.640	
11,900.0	8,241.0	12,414.8	8,755.0	66.0	66.5	-128.38	-3,488.3	298.5	827.8	716.9	110.83	7.469	
12,000.0	8,241.0	12,514.8	8,755.0	67.4	67.9	-128.38	-3,588.3	299.3	827.8	714.5	113.31	7.305	
12,100.0	8,241.0	12,614.8	8,755.0	68.9	69.4	-128.38	-3,688.3	300.1	827.8	712.0	115.81	7.148	
12,200.0	8,241.0	12,714.8	8,755.0	70.4	70.9	-128.38	-3,788.3	300.8	827.8	709.5	118.32	6.996	
12,300.0	8,241.0	12,814.8	8,755.0	71.9	72.3	-128.38	-3,888.3	301.6	827.8	706.9	120.84	6.850	
12,400.0	8,241.0	12,914.8	8,755.0	73.4	73.8	-128.38	-3,988.3	302.4	827.8	704.4	123.38	6.709	
12,500.0	8,241.0	13,014.8	8,755.0	74.9	75.3	-128.38	-4,088.3	303.1	827.8	701.9	125.92	6.574	
12,600.0	8,241.0	13,114.8	8,755.0	76.4	76.8	-128.38	-4,188.3	303.9	827.8	699.3	128.47	6.444	
12,700.0	8,241.0	13,214.8	8,755.0	78.0	78.4	-128.38	-4,288.3	304.7	827.8	696.8	131.03	6.318	
12,800.0	8,241.0	13,314.8	8,755.0	79.5	79.9	-128.38	-4,388.3	305.4	827.8	694.2	133.59	6.196	
12,900.0	8,241.0	13,414.8	8,755.0	81.0	81.4	-128.38	-4,488.3	306.2	827.8	691.6	136.17	6.079	
13,000.0	8,241.0	13,514.8	8,755.0	82.6	82.9	-128.38	-4,588.3	307.0	827.8	689.0	138.75	5.966	
13,100.0	8,241.0	13,614.8	8,755.0	84.1	84.4	-128.38	-4,688.3	307.7	827.8	686.5	141.34	5.857	
13,200.0	8,241.0	13,714.8	8,755.0	85.6	86.0	-128.38	-4,788.3	308.5	827.8	683.9	143.93	5.751	
13,300.0	8,241.0	13,814.8	8,755.0	87.2	87.5	-128.38	-4,888.3	309.3	827.8	681.3	146.53	5.649	
13,400.0	8,241.0	13,914.8	8,755.0	88.7	89.1	-128.38	-4,988.3	310.0	827.8	678.7	149.14	5.550	
13,500.0	8,241.0	14,014.8	8,755.0	90.3	90.6	-128.38	-5,088.3	310.8	827.8	676.0	151.75	5.455	
13,600.0	8,241.0	14,114.8	8,755.0	91.9	92.2	-128.38	-5,188.3	311.6	827.8	673.4	154.37	5.362	
13,700.0	8,241.0	14,214.8	8,755.0	93.4	93.7	-128.38	-5,288.3	312.3	827.8	670.8	156.99	5.273	
13,800.0	8,241.0	14,314.8	8,755.0	95.0	95.3	-128.38	-5,388.3	313.1	827.8	668.2	159.62	5.186	
13,900.0	8,241.0	14,414.8	8,755.0	96.6	96.8	-128.38	-5,488.3	313.9	827.8	665.6	162.25	5.102	
14,000.0	8,241.0	14,514.8	8,755.0	98.1	98.4	-128.38	-5,588.3	314.7	827.8	662.9	164.89	5.020	
14,100.0	8,241.0	14,614.8	8,755.0	99.7	100.0	-128.38	-5,688.3	315.4	827.8	660.3	167.53	4.941	
14,200.0	8,241.0	14,714.8	8,755.0	101.3	101.5	-128.38	-5,788.3	316.2	827.8	657.6	170.17	4.865	

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 #102H
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 #102H	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	
14,300.0	8,241.0	14,814.8	8,755.0	102.9	103.1	-128.38	-5,888.3	317.0	827.8	655.0	172.82	4.790	
14,400.0	8,241.0	14,914.8	8,755.0	104.4	104.7	-128.38	-5,988.3	317.7	827.8	652.3	175.47	4.718	
14,500.0	8,241.0	15,014.8	8,755.0	106.0	106.2	-128.38	-6,088.3	318.5	827.8	649.7	178.12	4.647	
14,600.0	8,241.0	15,114.8	8,755.0	107.6	107.8	-128.38	-6,188.3	319.3	827.8	647.0	180.78	4.579	
14,700.0	8,241.0	15,214.8	8,755.0	109.2	109.4	-128.38	-6,288.3	320.0	827.8	644.4	183.44	4.513	
14,800.0	8,241.0	15,314.8	8,755.0	110.8	111.0	-128.38	-6,388.3	320.8	827.8	641.7	186.11	4.448	
14,900.0	8,241.0	15,414.8	8,755.0	112.4	112.6	-128.38	-6,488.3	321.6	827.8	639.0	188.77	4.385	
15,000.0	8,241.0	15,514.8	8,755.0	114.0	114.1	-128.38	-6,588.2	322.3	827.8	636.4	191.44	4.324	
15,100.0	8,241.0	15,614.8	8,755.0	115.6	115.7	-128.38	-6,688.2	323.1	827.8	633.7	194.11	4.265	
15,200.0	8,241.0	15,714.8	8,755.0	117.1	117.3	-128.38	-6,788.2	323.9	827.8	631.0	196.79	4.207	
15,300.0	8,241.0	15,814.8	8,755.0	118.7	118.9	-128.38	-6,888.2	324.6	827.8	628.4	199.46	4.150	
15,400.0	8,241.0	15,914.8	8,755.0	120.3	120.5	-128.38	-6,988.2	325.4	827.8	625.7	202.14	4.095	
15,500.0	8,241.0	16,014.8	8,755.0	121.9	122.1	-128.38	-7,088.2	326.2	827.8	623.0	204.82	4.042	
15,600.0	8,241.0	16,114.8	8,755.0	123.5	123.7	-128.38	-7,188.2	326.9	827.8	620.3	207.51	3.989	
15,700.0	8,241.0	16,214.8	8,755.0	125.1	125.3	-128.38	-7,288.2	327.7	827.8	617.6	210.19	3.938	
15,800.0	8,241.0	16,314.8	8,755.0	126.7	126.9	-128.38	-7,388.2	328.5	827.8	615.0	212.88	3.889	
15,900.0	8,241.0	16,414.8	8,755.0	128.3	128.5	-128.38	-7,488.2	329.2	827.8	612.3	215.57	3.840	
16,000.0	8,241.0	16,514.8	8,755.0	129.9	130.1	-128.38	-7,588.2	330.0	827.8	609.6	218.26	3.793	
16,100.0	8,241.0	16,614.8	8,755.0	131.6	131.7	-128.38	-7,688.2	330.8	827.8	606.9	220.95	3.747	
16,200.0	8,241.0	16,714.8	8,755.0	133.2	133.3	-128.38	-7,788.2	331.6	827.8	604.2	223.64	3.702	
16,300.0	8,241.0	16,814.8	8,755.0	134.8	134.9	-128.38	-7,888.2	332.3	827.8	601.5	226.34	3.657	
16,400.0	8,241.0	16,914.8	8,755.0	136.4	136.5	-128.38	-7,988.2	333.1	827.8	598.8	229.04	3.614	
16,500.0	8,241.0	17,014.8	8,755.0	138.0	138.1	-128.38	-8,088.2	333.9	827.8	596.1	231.74	3.572	
16,600.0	8,241.0	17,114.8	8,755.0	139.6	139.7	-128.38	-8,188.2	334.6	827.8	593.4	234.44	3.531	
16,700.0	8,241.0	17,214.8	8,755.0	141.2	141.3	-128.38	-8,288.2	335.4	827.8	590.7	237.14	3.491	
16,800.0	8,241.0	17,314.8	8,755.0	142.8	142.9	-128.38	-8,388.2	336.2	827.8	588.0	239.84	3.452	
16,900.0	8,241.0	17,414.8	8,755.0	144.4	144.5	-128.38	-8,488.2	336.9	827.8	585.3	242.55	3.413	
17,000.0	8,241.0	17,514.8	8,755.0	146.1	146.1	-128.38	-8,588.2	337.7	827.8	582.6	245.25	3.375	
17,100.0	8,241.0	17,614.8	8,755.0	147.7	147.8	-128.38	-8,688.2	338.5	827.8	579.9	247.96	3.339	
17,200.0	8,241.0	17,714.8	8,755.0	149.3	149.4	-128.38	-8,788.2	339.2	827.9	577.2	250.67	3.303	
17,300.0	8,241.0	17,814.8	8,755.0	150.9	151.0	-128.38	-8,888.2	340.0	827.9	574.5	253.38	3.267	
17,400.0	8,241.0	17,914.8	8,755.0	152.5	152.6	-128.38	-8,988.2	340.8	827.9	571.8	256.09	3.233	
17,500.0	8,241.0	18,014.8	8,755.0	154.1	154.2	-128.38	-9,088.2	341.5	827.9	569.1	258.80	3.199	
17,600.0	8,241.0	18,114.8	8,755.0	155.8	155.8	-128.38	-9,188.2	342.3	827.9	566.3	261.51	3.166	
17,700.0	8,241.0	18,214.8	8,755.0	157.4	157.4	-128.38	-9,288.2	343.1	827.9	563.6	264.23	3.133	
17,800.0	8,241.0	18,314.8	8,755.0	159.0	159.1	-128.38	-9,388.2	343.8	827.9	560.9	266.94	3.101	
17,900.0	8,241.0	18,414.8	8,755.0	160.6	160.7	-128.38	-9,488.2	344.6	827.9	558.2	269.66	3.070	
18,000.0	8,241.0	18,514.8	8,755.0	162.2	162.3	-128.38	-9,588.2	345.4	827.9	555.5	272.37	3.039	
18,100.0	8,241.0	18,614.8	8,755.0	163.9	163.9	-128.38	-9,688.2	346.1	827.9	552.8	275.09	3.009	
18,200.0	8,241.0	18,714.8	8,755.0	165.5	165.5	-128.38	-9,788.2	346.9	827.9	550.1	277.81	2.980	
18,300.0	8,241.0	18,814.8	8,755.0	167.1	167.2	-128.38	-9,888.2	347.7	827.9	547.3	280.53	2.951	
18,400.0	8,241.0	18,914.8	8,755.0	168.7	168.8	-128.38	-9,988.1	348.5	827.9	544.6	283.25	2.923	
18,500.0	8,241.0	19,014.8	8,755.0	170.3	170.4	-128.38	-10,088.1	349.2	827.9	541.9	285.97	2.895	
18,541.8	8,241.0	19,056.6	8,755.0	171.0	171.1	-128.38	-10,129.9	349.5	827.9	540.8	287.10	2.884	
18,542.4	8,241.0	19,057.1	8,755.0	171.0	171.1	-128.38	-10,130.5	349.5	827.9	540.8	287.12	2.883	

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 #102H
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 #102H	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	-0.30	30.0	-0.2	30.0				
100.0	100.0	100.0	100.0	0.1	0.1	-0.30	30.0	-0.2	30.0	29.8	0.26	117.239	
200.0	200.0	200.0	200.0	0.5	0.5	-0.30	30.0	-0.2	30.0	29.1	0.97	30.875	
300.0	300.0	300.0	300.0	0.8	0.8	-0.30	30.0	-0.2	30.0	28.4	1.69	17.779	
400.0	400.0	400.0	400.0	1.2	1.2	-0.30	30.0	-0.2	30.0	27.6	2.41	12.483	
500.0	500.0	500.0	500.0	1.6	1.6	-0.30	30.0	-0.2	30.0	26.9	3.12	9.619	
600.0	600.0	600.0	600.0	1.9	1.9	-0.30	30.0	-0.2	30.0	26.2	3.84	7.823	
700.0	700.0	700.0	700.0	2.3	2.3	-0.30	30.0	-0.2	30.0	25.5	4.56	6.593	
800.0	800.0	800.0	800.0	2.6	2.6	-0.30	30.0	-0.2	30.0	24.8	5.27	5.697	
900.0	900.0	900.0	900.0	3.0	3.0	-0.30	30.0	-0.2	30.0	24.1	5.99	5.015	
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	-0.30	30.0	-0.2	30.0	23.3	6.71	4.479	
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	-0.30	30.0	-0.2	30.0	22.6	7.43	4.047	
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	-0.30	30.0	-0.2	30.0	21.9	8.14	3.690	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-0.30	30.0	-0.2	30.0	21.2	8.86	3.392	
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	-0.30	30.0	-0.2	30.0	20.5	9.58	3.138	
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	-0.30	30.0	-0.2	30.0	19.8	10.29	2.919	
1,600.0	1,600.0	1,600.0	1,600.0	5.5	5.5	-0.30	30.0	-0.2	30.0	19.0	11.01	2.729	
1,700.0	1,700.0	1,700.0	1,700.0	5.9	5.9	-0.30	30.0	-0.2	30.0	18.3	11.73	2.562	
1,800.0	1,800.0	1,800.0	1,800.0	6.2	6.2	-0.30	30.0	-0.2	30.0	17.6	12.44	2.415	
1,900.0	1,900.0	1,900.0	1,900.0	6.6	6.6	-0.30	30.0	-0.2	30.0	16.9	13.16	2.283	
2,000.0	2,000.0	2,000.0	2,000.0	6.9	6.9	-0.30	30.0	-0.2	30.0	16.2	13.88	2.165	
2,100.0	2,100.0	2,100.0	2,100.0	7.3	7.3	-0.30	30.0	-0.2	30.0	15.5	14.60	2.059	
2,200.0	2,200.0	2,200.0	2,200.0	7.7	7.7	-0.30	30.0	-0.2	30.0	14.7	15.31	1.962	
2,300.0	2,300.0	2,300.0	2,300.0	8.0	8.0	-0.30	30.0	-0.2	30.0	14.0	16.03	1.875	
2,400.0	2,400.0	2,400.0	2,400.0	8.4	8.4	-0.30	30.0	-0.2	30.0	13.3	16.75	1.794	
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	-0.30	30.0	-0.2	30.0	12.6	17.46	1.721	
2,600.0	2,600.0	2,600.0	2,600.0	9.1	9.1	-0.30	30.0	-0.2	30.0	11.9	18.18	1.653	
2,700.0	2,700.0	2,700.0	2,700.0	9.4	9.4	-0.30	30.0	-0.2	30.0	11.2	18.90	1.590	
2,800.0	2,800.0	2,800.0	2,800.0	9.8	9.8	-0.30	30.0	-0.2	30.0	10.4	19.61	1.532	
2,900.0	2,900.0	2,900.0	2,900.0	10.2	10.2	-0.30	30.0	-0.2	30.0	9.7	20.33	1.478 Level 3	
3,000.0	3,000.0	3,000.0	3,000.0	10.5	10.5	-0.30	30.0	-0.2	30.0	9.0	21.05	1.428 Level 3, CC	
3,100.0	3,100.0	3,099.6	3,099.6	10.9	10.9	43.48	30.7	-0.7	30.1	8.3	21.76	1.383 Level 3	
3,200.0	3,200.0	3,199.2	3,199.1	11.2	11.2	43.77	32.7	-2.4	30.2	7.8	22.46	1.345 Level 3	
3,300.0	3,299.9	3,298.8	3,298.6	11.6	11.6	44.25	36.1	-5.1	30.4	7.3	23.16	1.313 Level 3	
3,400.0	3,399.7	3,398.4	3,398.1	11.9	11.9	44.91	40.7	-8.9	30.7	6.9	23.85	1.287 Level 3	
3,500.0	3,499.4	3,498.0	3,497.3	12.3	12.3	45.73	46.8	-13.9	31.1	6.5	24.55	1.266 Level 3	
3,600.0	3,598.9	3,597.6	3,596.5	12.7	12.7	46.72	54.1	-19.9	31.6	6.3	25.24	1.250 Level 2	
3,700.0	3,698.3	3,697.2	3,695.4	13.0	13.0	47.84	62.8	-27.0	32.1	6.2	25.94	1.238 Level 2	
3,800.0	3,797.4	3,803.3	3,794.2	13.4	13.4	49.09	72.8	-35.3	32.8	6.1	26.66	1.230 Level 2	
3,900.0	3,896.4	3,903.3	3,893.2	13.8	13.8	50.30	83.5	-44.1	33.6	6.2	27.40	1.225 Level 2	
4,000.0	3,995.5	4,003.3	3,992.2	14.1	14.1	51.46	94.3	-52.9	34.3	6.2	28.14	1.221 Level 2	
4,100.0	4,094.5	4,103.3	4,091.2	14.5	14.5	52.57	105.1	-61.7	35.1	6.3	28.88	1.217 Level 2	
4,200.0	4,193.5	4,203.3	4,190.3	14.9	14.9	53.63	115.8	-70.6	35.9	6.3	29.63	1.213 Level 2	
4,300.0	4,292.5	4,303.3	4,289.3	15.2	15.3	54.64	126.6	-79.4	36.8	6.4	30.38	1.210 Level 2	
4,400.0	4,391.6	4,403.3	4,388.3	15.6	15.6	55.60	137.3	-88.2	37.6	6.5	31.13	1.208 Level 2	
4,500.0	4,490.6	4,503.3	4,487.3	16.0	16.0	56.53	148.1	-97.1	38.4	6.6	31.89	1.205 Level 2	
4,600.0	4,589.6	4,596.7	4,586.3	16.4	16.4	57.41	158.8	-105.9	39.3	6.7	32.63	1.204 Level 2	
4,700.0	4,688.6	4,703.3	4,685.4	16.8	16.8	58.26	169.6	-114.7	40.2	6.7	33.42	1.202 Level 2	
4,800.0	4,787.7	4,803.3	4,784.4	17.2	17.2	59.07	180.3	-123.6	41.0	6.8	34.19	1.200 Level 2	
4,900.0	4,886.7	4,903.3	4,883.4	17.6	17.6	59.85	191.1	-132.4	41.9	6.9	34.96	1.199 Level 2	
5,000.0	4,985.7	5,003.3	4,982.4	17.9	18.0	60.59	201.9	-141.2	42.8	7.1	35.74	1.197 Level 2	
5,100.0	5,084.8	5,103.3	5,081.4	18.3	18.3	61.31	212.6	-150.1	43.7	7.2	36.51	1.196 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 #102H
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 #102H	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		
5,200.0	5,183.8	5,203.3	5,180.5	18.7	18.7	62.00	223.4	-158.9	44.6	7.3	37.29	1.195	Level 2	
5,300.0	5,282.8	5,303.3	5,279.5	19.1	19.1	62.65	234.1	-167.7	45.5	7.4	38.08	1.195	Level 2	
5,400.0	5,381.8	5,403.4	5,378.5	19.5	19.5	63.29	244.9	-176.6	46.4	7.5	38.86	1.194	Level 2	
5,500.0	5,480.9	5,503.4	5,477.5	19.9	19.9	63.90	255.6	-185.4	47.3	7.7	39.65	1.193	Level 2	
5,600.0	5,579.9	5,603.4	5,576.6	20.3	20.3	64.48	266.4	-194.2	48.2	7.8	40.44	1.193	Level 2	
5,700.0	5,678.9	5,703.4	5,675.6	20.7	20.7	65.05	277.1	-203.1	49.2	7.9	41.23	1.192	Level 2	
5,800.0	5,777.9	5,803.4	5,774.6	21.1	21.1	65.59	287.9	-211.9	50.1	8.1	42.02	1.192	Level 2	
5,900.0	5,877.0	5,903.4	5,873.6	21.5	21.5	66.11	298.6	-220.7	51.0	8.2	42.82	1.192	Level 2	
6,000.0	5,976.0	6,003.4	5,972.6	21.9	21.9	66.61	309.4	-229.6	52.0	8.3	43.61	1.191	Level 2	
6,100.0	6,075.0	6,103.4	6,071.7	22.3	22.3	67.10	320.2	-238.4	52.9	8.5	44.41	1.191	Level 2	
6,200.0	6,174.0	6,203.4	6,170.7	22.7	22.7	67.57	330.9	-247.2	53.8	8.6	45.21	1.191	Level 2	
6,300.0	6,273.1	6,303.4	6,269.7	23.1	23.1	68.02	341.7	-256.0	54.8	8.8	46.01	1.191	Level 2	
6,400.0	6,372.1	6,396.8	6,369.0	23.5	23.5	68.64	352.3	-264.8	55.7	8.9	46.80	1.190	Level 2	
6,500.0	6,471.1	6,497.4	6,468.9	23.9	23.9	71.23	361.3	-272.2	55.7	8.0	47.64	1.169	Level 2	
6,600.0	6,570.2	6,597.8	6,568.9	24.3	24.3	76.40	368.3	-277.9	54.9	6.4	48.50	1.133	Level 2	
6,700.0	6,669.2	6,697.9	6,668.7	24.7	24.6	84.35	373.3	-282.0	54.1	4.8	49.33	1.098	Level 2	
6,739.2	6,708.0	6,737.0	6,707.8	24.9	24.8	88.25	374.6	-283.1	54.0	4.4	49.63	1.089	Level 2	
6,800.0	6,768.2	6,797.4	6,768.2	25.1	25.0	95.07	376.2	-284.4	54.4	4.3	50.07	1.086	Level 2, ES, SF	
6,878.7	6,846.2	6,875.5	6,846.2	25.4	25.3	105.01	377.0	-285.1	56.2	5.7	50.53	1.112	Level 2	
6,900.0	6,867.2	6,903.5	6,867.2	25.5	25.4	107.77	377.1	-285.1	57.0	6.4	50.65	1.125	Level 2	
7,000.0	6,966.5	7,004.3	6,966.5	25.9	25.7	118.49	377.1	-285.1	61.8	10.7	51.12	1.209	Level 2	
7,100.0	7,066.1	7,104.7	7,066.1	26.3	26.0	125.68	377.1	-285.1	66.9	15.2	51.63	1.295	Level 3	
7,200.0	7,165.8	7,205.0	7,165.8	26.7	26.4	130.22	377.1	-285.1	71.1	18.9	52.20	1.362	Level 3	
7,300.0	7,265.7	7,305.0	7,265.7	27.0	26.7	132.76	377.1	-285.1	73.9	21.1	52.82	1.399	Level 3	
7,400.0	7,365.7	7,405.1	7,365.7	27.4	27.1	133.68	377.1	-285.1	75.0	21.5	53.49	1.402	Level 3	
7,412.1	7,377.8	7,407.0	7,377.8	27.4	27.1	90.01	377.1	-285.1	75.0	21.5	53.54	1.401	Level 3	
7,500.0	7,465.7	7,505.1	7,465.7	27.7	27.4	90.01	377.1	-285.1	75.0	20.8	54.18	1.384	Level 3	
7,600.0	7,565.7	7,605.1	7,565.7	28.1	27.8	90.01	377.1	-285.1	75.0	20.1	54.88	1.367	Level 3	
7,702.3	7,668.0	7,702.8	7,668.0	28.4	28.1	90.01	377.1	-285.1	75.0	19.4	55.57	1.350	Level 3	
7,750.0	7,715.7	7,744.9	7,715.7	28.6	28.3	-92.90	377.1	-285.1	75.1	19.2	55.92	1.343	Level 3	
7,800.0	7,765.2	7,805.5	7,765.2	28.7	28.5	-97.59	377.1	-285.1	75.7	19.3	56.42	1.341	Level 3	
7,850.0	7,814.1	7,843.3	7,814.1	28.8	28.6	-104.98	377.1	-285.1	77.8	20.9	56.90	1.367	Level 3	
7,900.0	7,861.8	7,909.0	7,861.8	28.9	28.8	-114.07	377.1	-285.1	83.0	25.5	57.49	1.444	Level 3	
7,950.0	7,908.1	7,937.3	7,908.1	29.0	28.9	-123.44	377.1	-285.1	92.7	34.9	57.86	1.603		
8,000.0	7,952.5	7,981.7	7,952.5	29.1	29.1	-131.87	377.1	-285.1	107.8	49.6	58.18	1.853		
8,050.0	7,994.8	8,024.0	7,994.8	29.2	29.2	-138.76	377.1	-285.1	128.3	69.9	58.40	2.197		
8,100.0	8,034.5	8,063.8	8,034.5	29.3	29.4	-144.02	377.1	-285.1	153.9	95.4	58.55	2.628		
8,150.0	8,071.5	8,100.7	8,071.5	29.3	29.5	-147.84	377.1	-285.1	184.0	125.3	58.68	3.136		
8,200.0	8,105.4	8,134.7	8,105.4	29.3	29.6	-150.44	377.1	-285.1	218.0	159.3	58.79	3.709		
8,250.0	8,136.0	8,165.2	8,136.0	29.4	29.7	-151.98	377.1	-285.1	255.5	196.6	58.88	4.339		
8,300.0	8,163.0	8,207.7	8,163.0	29.4	29.9	-152.51	377.1	-285.1	296.0	237.0	59.02	5.015		
8,350.0	8,186.3	8,215.5	8,186.3	29.4	29.9	-151.98	377.1	-285.1	339.0	279.9	59.03	5.742		
8,400.0	8,205.6	8,234.8	8,205.6	29.4	30.0	-150.07	377.1	-285.1	384.1	325.0	59.09	6.500		
8,450.0	8,220.8	8,250.1	8,220.8	29.4	30.0	-146.06	377.1	-285.1	430.9	371.7	59.12	7.287		
8,500.0	8,231.9	8,261.1	8,231.9	29.4	30.0	-138.24	377.1	-285.1	478.9	419.8	59.14	8.098		
8,550.0	8,238.6	8,267.8	8,238.6	29.5	30.1	-122.42	377.1	-285.1	527.9	468.8	59.15	8.926		
8,602.3	8,241.0	8,270.2	8,241.0	29.7	30.1	-90.00	377.1	-285.1	579.7	520.5	59.14	9.802		
8,694.2	8,241.0	8,270.2	8,241.0	30.0	30.1	-90.00	377.1	-285.1	670.8	611.7	59.10	11.349		
8,700.0	8,241.0	8,270.2	8,241.0	30.0	30.1	-90.00	377.1	-285.1	676.5	617.4	59.10	11.446		
8,800.0	8,241.0	8,270.2	8,241.0	30.4	30.1	-90.00	377.1	-285.1	775.6	716.5	59.07	13.130		
8,900.0	8,241.0	8,270.2	8,241.0	30.9	30.1	-90.00	377.1	-285.1	874.9	815.9	59.05	14.816		
9,000.0	8,241.0	8,270.2	8,241.0	31.5	30.1	-90.00	377.1	-285.1	974.4	915.4	59.04	16.504		

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 #102H
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 #102H	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	
9,100.0	8,241.0	8,270.2	8,241.0	32.1	30.1	-90.00	377.1	-285.1	1,074.0	1,014.9	59.03	18.194	
9,200.0	8,241.0	10,300.4	9,341.0	32.8	36.4	179.99	-793.4	-371.2	1,100.0	1,073.8	26.23	41.933	
9,300.0	8,241.0	10,400.4	9,341.0	33.6	37.1	179.99	-893.4	-370.4	1,100.0	1,072.7	27.31	40.281	
9,400.0	8,241.0	10,500.4	9,341.0	34.4	37.9	179.99	-993.4	-369.6	1,100.0	1,071.6	28.43	38.692	
9,500.0	8,241.0	10,600.4	9,341.0	35.3	38.7	179.99	-1,093.4	-368.9	1,100.0	1,070.4	29.59	37.172	
9,600.0	8,241.0	10,700.4	9,341.0	36.3	39.5	179.99	-1,193.4	-368.1	1,100.0	1,069.2	30.79	35.726	
9,700.0	8,241.0	10,800.4	9,341.0	37.2	40.4	179.99	-1,293.4	-367.3	1,100.0	1,068.0	32.02	34.354	
9,800.0	8,241.0	10,900.4	9,341.0	38.3	41.4	179.99	-1,393.4	-366.6	1,100.0	1,066.7	33.28	33.055	
9,900.0	8,241.0	11,000.4	9,341.0	39.3	42.4	179.99	-1,493.4	-365.8	1,100.0	1,065.4	34.56	31.827	
10,000.0	8,241.0	11,100.4	9,341.0	40.5	43.4	179.99	-1,593.4	-365.0	1,100.0	1,064.1	35.87	30.669	
10,100.0	8,241.0	11,200.4	9,341.0	41.6	44.5	179.99	-1,693.4	-364.3	1,100.0	1,062.8	37.19	29.575	
10,200.0	8,241.0	11,300.4	9,341.0	42.8	45.6	179.99	-1,793.4	-363.5	1,100.0	1,061.5	38.54	28.543	
10,300.0	8,241.0	11,400.4	9,341.0	44.0	46.7	179.99	-1,893.4	-362.7	1,100.0	1,060.1	39.90	27.570	
10,400.0	8,241.0	11,500.4	9,341.0	45.2	47.9	179.99	-1,993.4	-362.0	1,100.0	1,058.7	41.27	26.651	
10,500.0	8,241.0	11,600.4	9,341.0	46.5	49.1	179.99	-2,093.4	-361.2	1,100.0	1,057.3	42.66	25.784	
10,600.0	8,241.0	11,700.4	9,341.0	47.8	50.3	179.99	-2,193.4	-360.4	1,100.0	1,055.9	44.06	24.964	
10,700.0	8,241.0	11,800.4	9,341.0	49.1	51.6	179.99	-2,293.4	-359.6	1,100.0	1,054.5	45.47	24.189	
10,800.0	8,241.0	11,900.4	9,341.0	50.4	52.8	179.99	-2,393.4	-358.9	1,100.0	1,053.1	46.90	23.456	
10,900.0	8,241.0	12,000.4	9,341.0	51.7	54.1	179.99	-2,493.4	-358.1	1,100.0	1,051.7	48.33	22.762	
11,000.0	8,241.0	12,100.4	9,341.0	53.1	55.4	179.99	-2,593.3	-357.3	1,100.0	1,050.2	49.77	22.103	
11,100.0	8,241.0	12,200.4	9,341.0	54.5	56.8	179.99	-2,693.3	-356.6	1,100.0	1,048.8	51.21	21.479	
11,200.0	8,241.0	12,300.4	9,341.0	55.9	58.1	179.99	-2,793.3	-355.8	1,100.0	1,047.3	52.67	20.886	
11,300.0	8,241.0	12,400.4	9,341.0	57.3	59.4	179.99	-2,893.3	-355.0	1,100.0	1,045.9	54.13	20.323	
11,400.0	8,241.0	12,500.4	9,341.0	58.7	60.8	179.99	-2,993.3	-354.3	1,100.0	1,044.4	55.59	19.787	
11,500.0	8,241.0	12,600.4	9,341.0	60.1	62.2	179.99	-3,093.3	-353.5	1,100.0	1,042.9	57.06	19.277	
11,600.0	8,241.0	12,700.4	9,341.0	61.6	63.6	179.99	-3,193.3	-352.7	1,100.0	1,041.5	58.54	18.790	
11,700.0	8,241.0	12,800.4	9,341.0	63.0	65.0	179.99	-3,293.3	-352.0	1,100.0	1,040.0	60.02	18.327	
11,800.0	8,241.0	12,900.4	9,341.0	64.5	66.4	179.99	-3,393.3	-351.2	1,100.0	1,038.5	61.51	17.884	
11,900.0	8,241.0	13,000.4	9,341.0	66.0	67.9	179.99	-3,493.3	-350.4	1,100.0	1,037.0	63.00	17.461	
12,000.0	8,241.0	13,100.4	9,341.0	67.4	69.3	179.99	-3,593.3	-349.7	1,100.0	1,035.5	64.49	17.057	
12,100.0	8,241.0	13,200.4	9,341.0	68.9	70.7	179.99	-3,693.3	-348.9	1,100.0	1,034.0	65.99	16.670	
12,200.0	8,241.0	13,300.4	9,341.0	70.4	72.2	179.99	-3,793.3	-348.1	1,100.0	1,032.5	67.49	16.299	
12,300.0	8,241.0	13,400.4	9,341.0	71.9	73.7	179.99	-3,893.3	-347.4	1,100.0	1,031.0	68.99	15.944	
12,400.0	8,241.0	13,500.4	9,341.0	73.4	75.1	180.00	-3,993.3	-346.6	1,100.0	1,029.5	70.50	15.603	
12,500.0	8,241.0	13,600.4	9,341.0	74.9	76.6	180.00	-4,093.3	-345.8	1,100.0	1,028.0	72.01	15.276	
12,600.0	8,241.0	13,700.4	9,341.0	76.4	78.1	180.00	-4,193.3	-345.0	1,100.0	1,026.5	73.52	14.962	
12,700.0	8,241.0	13,800.4	9,341.0	78.0	79.6	180.00	-4,293.3	-344.3	1,100.0	1,025.0	75.03	14.660	
12,800.0	8,241.0	13,900.4	9,341.0	79.5	81.1	180.00	-4,393.3	-343.5	1,100.0	1,023.5	76.55	14.370	
12,900.0	8,241.0	14,000.4	9,341.0	81.0	82.6	180.00	-4,493.3	-342.7	1,100.0	1,021.9	78.07	14.091	
13,000.0	8,241.0	14,100.4	9,341.0	82.6	84.1	180.00	-4,593.3	-342.0	1,100.0	1,020.4	79.59	13.821	
13,100.0	8,241.0	14,200.4	9,341.0	84.1	85.6	180.00	-4,693.3	-341.2	1,100.0	1,018.9	81.11	13.562	
13,200.0	8,241.0	14,300.4	9,341.0	85.6	87.1	180.00	-4,793.3	-340.4	1,100.0	1,017.4	82.63	13.312	
13,300.0	8,241.0	14,400.4	9,341.0	87.2	88.7	180.00	-4,893.3	-339.7	1,100.0	1,015.8	84.16	13.071	
13,400.0	8,241.0	14,500.4	9,341.0	88.7	90.2	180.00	-4,993.3	-338.9	1,100.0	1,014.3	85.68	12.838	
13,500.0	8,241.0	14,600.4	9,341.0	90.3	91.7	180.00	-5,093.3	-338.1	1,100.0	1,012.8	87.21	12.613	
13,600.0	8,241.0	14,700.4	9,341.0	91.9	93.3	180.00	-5,193.3	-337.4	1,100.0	1,011.3	88.74	12.395	
13,700.0	8,241.0	14,800.4	9,341.0	93.4	94.8	180.00	-5,293.3	-336.6	1,100.0	1,009.7	90.27	12.185	
13,800.0	8,241.0	14,900.4	9,341.0	95.0	96.4	180.00	-5,393.3	-335.8	1,100.0	1,008.2	91.81	11.982	
13,900.0	8,241.0	15,000.4	9,341.0	96.6	97.9	180.00	-5,493.3	-335.1	1,100.0	1,006.7	93.34	11.785	
14,000.0	8,241.0	15,100.4	9,341.0	98.1	99.5	180.00	-5,593.3	-334.3	1,100.0	1,005.1	94.88	11.594	
14,100.0	8,241.0	15,200.4	9,341.0	99.7	101.0	180.00	-5,693.3	-333.5	1,100.0	1,003.6	96.41	11.409	
14,200.0	8,241.0	15,300.4	9,341.0	101.3	102.6	180.00	-5,793.3	-332.8	1,100.0	1,002.1	97.95	11.230	

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 #102H
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 #102H	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	
14,300.0	8,241.0	15,400.4	9,341.0	102.9	104.1	180.00	-5,893.3	-332.0	1,100.0	1,000.5	99.49	11.057	
14,400.0	8,241.0	15,500.4	9,341.0	104.4	105.7	180.00	-5,993.2	-331.2	1,100.0	999.0	101.03	10.888	
14,500.0	8,241.0	15,600.4	9,341.0	106.0	107.3	180.00	-6,093.2	-330.5	1,100.0	997.4	102.57	10.725	
14,600.0	8,241.0	15,700.4	9,341.0	107.6	108.8	180.00	-6,193.2	-329.7	1,100.0	995.9	104.11	10.566	
14,700.0	8,241.0	15,800.4	9,341.0	109.2	110.4	180.00	-6,293.2	-328.9	1,100.0	994.3	105.65	10.412	
14,800.0	8,241.0	15,900.4	9,341.0	110.8	112.0	180.00	-6,393.2	-328.1	1,100.0	992.8	107.19	10.262	
14,900.0	8,241.0	16,000.4	9,341.0	112.4	113.5	180.00	-6,493.2	-327.4	1,100.0	991.3	108.74	10.116	
15,000.0	8,241.0	16,100.4	9,341.0	114.0	115.1	180.00	-6,593.2	-326.6	1,100.0	989.7	110.28	9.975	
15,100.0	8,241.0	16,200.4	9,341.0	115.6	116.7	180.00	-6,693.2	-325.8	1,100.0	988.2	111.83	9.837	
15,200.0	8,241.0	16,300.4	9,341.0	117.1	118.3	180.00	-6,793.2	-325.1	1,100.0	986.6	113.37	9.703	
15,300.0	8,241.0	16,400.4	9,341.0	118.7	119.9	180.00	-6,893.2	-324.3	1,100.0	985.1	114.92	9.572	
15,400.0	8,241.0	16,500.4	9,341.0	120.3	121.4	180.00	-6,993.2	-323.5	1,100.0	983.5	116.46	9.445	
15,500.0	8,241.0	16,600.4	9,341.0	121.9	123.0	180.00	-7,093.2	-322.8	1,100.0	982.0	118.01	9.321	
15,600.0	8,241.0	16,700.4	9,341.0	123.5	124.6	180.00	-7,193.2	-322.0	1,100.0	980.4	119.56	9.200	
15,700.0	8,241.0	16,800.4	9,341.0	125.1	126.2	180.00	-7,293.2	-321.2	1,100.0	978.9	121.11	9.083	
15,800.0	8,241.0	16,900.4	9,341.0	126.7	127.8	180.00	-7,393.2	-320.5	1,100.0	977.3	122.66	8.968	
15,900.0	8,241.0	17,000.4	9,341.0	128.3	129.4	180.00	-7,493.2	-319.7	1,100.0	975.8	124.21	8.856	
16,000.0	8,241.0	17,100.4	9,341.0	129.9	131.0	180.00	-7,593.2	-318.9	1,100.0	974.2	125.76	8.747	
16,100.0	8,241.0	17,200.4	9,341.0	131.6	132.6	180.00	-7,693.2	-318.2	1,100.0	972.7	127.31	8.641	
16,200.0	8,241.0	17,300.4	9,341.0	133.2	134.2	180.00	-7,793.2	-317.4	1,100.0	971.1	128.86	8.537	
16,300.0	8,241.0	17,400.4	9,341.0	134.8	135.8	180.00	-7,893.2	-316.6	1,100.0	969.6	130.41	8.435	
16,400.0	8,241.0	17,500.4	9,341.0	136.4	137.4	180.00	-7,993.2	-315.9	1,100.0	968.0	131.96	8.336	
16,500.0	8,241.0	17,600.4	9,341.0	138.0	139.0	180.00	-8,093.2	-315.1	1,100.0	966.5	133.51	8.239	
16,600.0	8,241.0	17,700.4	9,341.0	139.6	140.6	180.00	-8,193.2	-314.3	1,100.0	964.9	135.07	8.144	
16,700.0	8,241.0	17,800.4	9,341.0	141.2	142.2	180.00	-8,293.2	-313.6	1,100.0	963.4	136.62	8.052	
16,800.0	8,241.0	17,900.4	9,341.0	142.8	143.8	180.00	-8,393.2	-312.8	1,100.0	961.8	138.17	7.961	
16,900.0	8,241.0	18,000.4	9,341.0	144.4	145.4	180.00	-8,493.2	-312.0	1,100.0	960.3	139.73	7.873	
17,000.0	8,241.0	18,100.4	9,341.0	146.1	147.0	180.00	-8,593.2	-311.2	1,100.0	958.7	141.28	7.786	
17,100.0	8,241.0	18,200.4	9,341.0	147.7	148.6	180.00	-8,693.2	-310.5	1,100.0	957.2	142.84	7.701	
17,200.0	8,241.0	18,300.4	9,341.0	149.3	150.2	180.00	-8,793.2	-309.7	1,100.0	955.6	144.39	7.618	
17,300.0	8,241.0	18,400.4	9,341.0	150.9	151.8	180.00	-8,893.2	-308.9	1,100.0	954.1	145.95	7.537	
17,400.0	8,241.0	18,500.4	9,341.0	152.5	153.4	180.00	-8,993.2	-308.2	1,100.0	952.5	147.50	7.458	
17,500.0	8,241.0	18,600.4	9,341.0	154.1	155.0	180.00	-9,093.2	-307.4	1,100.0	950.9	149.06	7.380	
17,600.0	8,241.0	18,700.4	9,341.0	155.8	156.6	180.00	-9,193.2	-306.6	1,100.0	949.4	150.61	7.304	
17,700.0	8,241.0	18,800.4	9,341.0	157.4	158.2	180.00	-9,293.2	-305.9	1,100.0	947.8	152.17	7.229	
17,800.0	8,241.0	18,900.4	9,341.0	159.0	159.9	180.00	-9,393.1	-305.1	1,100.0	946.3	153.73	7.156	
17,900.0	8,241.0	19,000.4	9,341.0	160.6	161.5	-180.00	-9,493.1	-304.3	1,100.0	944.7	155.28	7.084	
18,000.0	8,241.0	19,100.4	9,341.0	162.2	163.1	-180.00	-9,593.1	-303.6	1,100.0	943.2	156.84	7.014	
18,100.0	8,241.0	19,200.4	9,341.0	163.9	164.7	-180.00	-9,693.1	-302.8	1,100.0	941.6	158.40	6.945	
18,200.0	8,241.0	19,300.4	9,341.0	165.5	166.3	-180.00	-9,793.1	-302.0	1,100.0	940.0	159.95	6.877	
18,300.0	8,241.0	19,400.4	9,341.0	167.1	167.9	-180.00	-9,893.1	-301.3	1,100.0	938.5	161.51	6.811	
18,400.0	8,241.0	19,500.4	9,341.0	168.7	169.5	-180.00	-9,993.1	-300.5	1,100.0	936.9	163.07	6.746	
18,500.0	8,241.0	19,600.4	9,341.0	170.3	171.2	-180.00	-10,093.1	-299.7	1,100.0	935.4	164.63	6.682	
18,541.8	8,241.0	19,641.4	9,341.0	171.0	171.8	-180.00	-10,134.9	-299.4	1,100.0	934.7	165.27	6.656	
18,542.4	8,241.0	19,641.9	9,341.0	171.0	171.8	-180.00	-10,135.5	-299.4	1,100.0	934.7	165.28	6.655	

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 #102H
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 #102H	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	-75.11	29.3	-110.2	114.0				
100.0	100.0	100.0	100.0	0.1	0.1	-75.11	29.3	-110.2	114.0	113.8	0.26	444.826	
200.0	200.0	200.0	200.0	0.5	0.5	-75.11	29.3	-110.2	114.0	113.0	0.97	117.146	
300.0	300.0	300.0	300.0	0.8	0.8	-75.11	29.3	-110.2	114.0	112.3	1.69	67.455	
400.0	400.0	400.0	400.0	1.2	1.2	-75.11	29.3	-110.2	114.0	111.6	2.41	47.364	
500.0	500.0	500.0	500.0	1.6	1.6	-75.11	29.3	-110.2	114.0	110.9	3.12	36.495	
600.0	600.0	600.0	600.0	1.9	1.9	-75.11	29.3	-110.2	114.0	110.2	3.84	29.683	
700.0	700.0	700.0	700.0	2.3	2.3	-75.11	29.3	-110.2	114.0	109.5	4.56	25.014	
800.0	800.0	800.0	800.0	2.6	2.6	-75.11	29.3	-110.2	114.0	108.7	5.27	21.614	
900.0	900.0	900.0	900.0	3.0	3.0	-75.11	29.3	-110.2	114.0	108.0	5.99	19.028	
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	-75.11	29.3	-110.2	114.0	107.3	6.71	16.994	
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	-75.11	29.3	-110.2	114.0	106.6	7.43	15.354	
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	-75.11	29.3	-110.2	114.0	105.9	8.14	14.002	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-75.11	29.3	-110.2	114.0	105.2	8.86	12.869	
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	-75.11	29.3	-110.2	114.0	104.4	9.58	11.905	
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	-75.11	29.3	-110.2	114.0	103.7	10.29	11.076	
1,600.0	1,600.0	1,600.0	1,600.0	5.5	5.5	-75.11	29.3	-110.2	114.0	103.0	11.01	10.355	
1,700.0	1,700.0	1,700.0	1,700.0	5.9	5.9	-75.11	29.3	-110.2	114.0	102.3	11.73	9.722	
1,800.0	1,800.0	1,800.0	1,800.0	6.2	6.2	-75.11	29.3	-110.2	114.0	101.6	12.44	9.162	
1,900.0	1,900.0	1,900.0	1,900.0	6.6	6.6	-75.11	29.3	-110.2	114.0	100.9	13.16	8.663	
2,000.0	2,000.0	2,000.0	2,000.0	6.9	6.9	-75.11	29.3	-110.2	114.0	100.1	13.88	8.215	
2,100.0	2,100.0	2,100.0	2,100.0	7.3	7.3	-75.11	29.3	-110.2	114.0	99.4	14.60	7.812	
2,200.0	2,200.0	2,200.0	2,200.0	7.7	7.7	-75.11	29.3	-110.2	114.0	98.7	15.31	7.446	
2,300.0	2,300.0	2,300.0	2,300.0	8.0	8.0	-75.11	29.3	-110.2	114.0	98.0	16.03	7.113	
2,400.0	2,400.0	2,400.0	2,400.0	8.4	8.4	-75.11	29.3	-110.2	114.0	97.3	16.75	6.808	
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	-75.11	29.3	-110.2	114.0	96.5	17.46	6.529	
2,600.0	2,600.0	2,599.0	2,599.0	9.1	9.1	-74.75	30.1	-110.4	114.5	96.3	18.17	6.298	
2,700.0	2,700.0	2,697.9	2,697.9	9.4	9.4	-73.66	32.6	-111.1	115.8	96.9	18.88	6.133	
2,800.0	2,800.0	2,796.7	2,796.6	9.8	9.8	-71.92	36.7	-112.3	118.2	98.6	19.59	6.033	
2,900.0	2,900.0	2,895.3	2,895.0	10.2	10.1	-69.59	42.4	-114.0	121.7	101.4	20.29	5.996	
3,000.0	3,000.0	2,993.7	2,993.1	10.5	10.5	-66.81	49.7	-116.1	126.5	105.5	20.99	6.024	
3,100.0	3,100.0	3,091.9	3,090.8	10.9	10.9	-20.12	58.6	-118.6	131.8	110.2	21.68	6.081	
3,200.0	3,200.0	3,189.9	3,188.2	11.2	11.2	-17.08	69.2	-121.7	137.1	114.7	22.36	6.132	
3,300.0	3,299.9	3,287.7	3,285.2	11.6	11.6	-14.00	81.2	-125.1	142.3	119.3	23.03	6.180	
3,400.0	3,399.7	3,387.1	3,383.6	11.9	11.9	-10.97	94.5	-129.0	147.0	123.3	23.73	6.198	
3,500.0	3,499.4	3,486.8	3,482.4	12.3	12.3	-8.23	107.9	-132.8	150.4	126.0	24.43	6.158	
3,600.0	3,598.9	3,586.5	3,581.1	12.7	12.7	-5.68	121.2	-136.6	152.4	127.3	25.14	6.064	
3,700.0	3,698.3	3,686.3	3,679.9	13.0	13.0	-3.24	134.5	-140.5	153.0	127.1	25.85	5.918	
3,800.0	3,797.4	3,786.1	3,778.8	13.4	13.4	-0.83	147.9	-144.3	152.0	125.5	26.56	5.725	
3,900.0	3,896.4	3,885.9	3,877.6	13.8	13.8	1.61	161.2	-148.1	150.5	123.2	27.27	5.519	
4,000.0	3,995.5	3,985.6	3,976.4	14.1	14.2	4.10	174.6	-152.0	149.2	121.3	27.98	5.334	
4,100.0	4,094.5	4,085.4	4,075.2	14.5	14.6	6.63	187.9	-155.8	148.3	119.6	28.69	5.167	
4,200.0	4,193.5	4,185.2	4,174.0	14.9	15.0	9.18	201.3	-159.7	147.6	118.2	29.41	5.019	
4,300.0	4,292.5	4,285.0	4,272.8	15.2	15.3	11.75	214.6	-163.5	147.2	117.1	30.13	4.887	
4,374.9	4,366.7	4,359.8	4,346.9	15.5	15.6	13.69	224.6	-166.4	147.1	116.5	30.67	4.798	
4,400.0	4,391.6	4,384.8	4,371.6	15.6	15.7	14.33	228.0	-167.3	147.2	116.3	30.85	4.770	
4,500.0	4,490.6	4,484.5	4,470.4	16.0	16.1	16.91	241.3	-171.2	147.4	115.8	31.58	4.667	
4,600.0	4,589.6	4,584.3	4,569.2	16.4	16.5	19.48	254.7	-175.0	147.9	115.6	32.31	4.578	
4,700.0	4,688.6	4,684.1	4,668.0	16.8	16.9	22.02	268.0	-178.9	148.7	115.7	33.04	4.501	
4,800.0	4,787.7	4,783.9	4,766.8	17.2	17.3	24.53	281.3	-182.7	149.8	116.1	33.78	4.436	
4,900.0	4,886.7	4,883.7	4,865.7	17.6	17.7	27.00	294.7	-186.5	151.2	116.7	34.52	4.381	
5,000.0	4,985.7	4,983.4	4,964.5	17.9	18.1	29.41	308.0	-190.4	152.9	117.6	35.27	4.335	

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 #102H
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 #102H	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	
5,100.0	5,084.8	5,083.2	5,063.3	18.3	18.5	31.78	321.4	-194.2	154.8	118.8	36.02	4.298	
5,200.0	5,183.8	5,183.0	5,162.1	18.7	18.9	34.08	334.7	-198.1	157.0	120.2	36.78	4.269	
5,300.0	5,282.8	5,284.0	5,262.1	19.1	19.3	36.34	348.1	-201.9	159.4	121.8	37.57	4.241	
5,400.0	5,381.8	5,388.1	5,365.4	19.5	19.7	38.75	359.9	-205.3	160.0	121.5	38.42	4.163	
5,500.0	5,480.9	5,492.0	5,469.0	19.9	20.1	41.38	369.0	-207.9	158.2	118.9	39.25	4.030	
5,600.0	5,579.9	5,595.7	5,572.5	20.3	20.5	44.35	375.4	-209.8	154.1	114.0	40.06	3.847	
5,700.0	5,678.9	5,699.0	5,675.7	20.7	20.9	47.84	379.1	-210.8	147.9	107.1	40.85	3.620	
5,800.0	5,777.9	5,801.3	5,777.9	21.1	21.2	52.04	380.1	-211.1	139.8	98.2	41.64	3.358	
5,900.0	5,877.0	5,900.3	5,877.0	21.5	21.5	56.79	380.1	-211.1	131.7	89.2	42.46	3.101	
6,000.0	5,976.0	6,000.7	5,976.0	21.9	21.9	62.11	380.1	-211.1	124.5	81.2	43.31	2.876	
6,100.0	6,075.0	6,101.6	6,075.0	22.3	22.2	68.01	380.1	-211.1	118.6	74.4	44.16	2.686	
6,200.0	6,174.0	6,202.6	6,174.0	22.7	22.6	74.45	380.1	-211.1	114.1	69.1	45.02	2.534	
6,300.0	6,273.1	6,303.6	6,273.1	23.1	22.9	81.31	380.1	-211.1	111.1	65.3	45.86	2.423	
6,400.0	6,372.1	6,404.5	6,372.1	23.5	23.3	88.43	380.1	-211.1	109.9	63.2	46.68	2.354	
6,421.8	6,393.7	6,417.0	6,393.7	23.6	23.3	90.00	380.1	-211.1	109.8	63.0	46.82	2.346 CC	
6,500.0	6,471.1	6,505.5	6,471.1	23.9	23.6	95.61	380.1	-211.1	110.4	62.9	47.46	2.325 ES, SF	
6,600.0	6,570.2	6,606.5	6,570.2	24.3	24.0	102.61	380.1	-211.1	112.6	64.4	48.20	2.336	
6,700.0	6,669.2	6,707.5	6,669.2	24.7	24.3	109.24	380.1	-211.1	116.5	67.6	48.90	2.381	
6,800.0	6,768.2	6,808.4	6,768.2	25.1	24.7	115.39	380.1	-211.1	121.8	72.2	49.57	2.457	
6,878.7	6,846.2	6,869.5	6,846.2	25.4	24.9	119.83	380.1	-211.1	126.9	76.9	50.02	2.537	
6,900.0	6,867.2	6,909.4	6,867.2	25.5	25.0	120.96	380.1	-211.1	128.4	78.2	50.22	2.556	
7,000.0	6,966.5	6,989.9	6,966.5	25.9	25.3	125.42	380.1	-211.1	135.0	84.2	50.80	2.658	
7,100.0	7,066.1	7,089.4	7,066.1	26.3	25.7	128.62	380.1	-211.1	140.8	89.3	51.45	2.736	
7,200.0	7,165.8	7,189.2	7,165.8	26.7	26.0	130.78	380.1	-211.1	145.1	93.0	52.12	2.785	
7,300.0	7,265.7	7,289.1	7,265.7	27.0	26.4	132.05	380.1	-211.1	148.0	95.2	52.80	2.802	
7,400.0	7,365.7	7,389.1	7,365.7	27.4	26.7	132.53	380.1	-211.1	149.0	95.6	53.49	2.787	
7,412.1	7,377.8	7,401.1	7,377.8	27.4	26.8	88.85	380.1	-211.1	149.1	95.5	53.57	2.782	
7,500.0	7,465.7	7,489.1	7,465.7	27.7	27.1	88.85	380.1	-211.1	149.1	94.9	54.18	2.751	
7,600.0	7,565.7	7,589.1	7,565.7	28.1	27.4	88.85	380.1	-211.1	149.1	94.2	54.88	2.716	
7,702.3	7,668.0	7,708.6	7,668.0	28.4	27.8	88.85	380.1	-211.1	149.1	93.4	55.65	2.678	
7,750.0	7,715.7	7,739.0	7,715.7	28.6	27.9	-93.30	380.1	-211.1	149.2	93.2	55.93	2.667	
7,800.0	7,765.2	7,788.6	7,765.2	28.7	28.1	-95.65	380.1	-211.1	149.7	93.4	56.30	2.658	
7,850.0	7,814.1	7,837.4	7,814.1	28.8	28.3	-99.42	380.1	-211.1	151.1	94.4	56.68	2.666	
7,900.0	7,861.8	7,885.2	7,861.8	28.9	28.5	-104.32	380.1	-211.1	154.3	97.2	57.06	2.704	
7,950.0	7,908.1	7,931.4	7,908.1	29.0	28.6	-109.89	380.1	-211.1	160.3	102.9	57.42	2.792	
8,000.0	7,952.5	7,975.8	7,952.5	29.1	28.8	-115.61	380.1	-211.1	170.1	112.4	57.74	2.946	
8,050.0	7,994.8	8,018.1	7,994.8	29.2	28.9	-121.00	380.1	-211.1	184.5	126.5	58.01	3.181	
8,100.0	8,034.5	8,057.9	8,034.5	29.3	29.1	-125.70	380.1	-211.1	203.8	145.6	58.22	3.501	
8,150.0	8,071.5	8,105.1	8,071.5	29.3	29.2	-129.49	380.1	-211.1	228.1	169.7	58.43	3.904	
8,200.0	8,105.4	8,128.8	8,105.4	29.3	29.3	-132.26	380.1	-211.1	257.1	198.5	58.52	4.393	
8,250.0	8,136.0	8,159.4	8,136.0	29.4	29.4	-133.98	380.1	-211.1	290.2	231.6	58.63	4.950	
8,300.0	8,163.0	8,186.4	8,163.0	29.4	29.5	-134.55	380.1	-211.1	327.0	268.3	58.71	5.570	
8,350.0	8,186.3	8,209.7	8,186.3	29.4	29.6	-133.83	380.1	-211.1	366.9	308.2	58.77	6.244	
8,400.0	8,205.6	8,229.0	8,205.6	29.4	29.7	-131.53	380.1	-211.1	409.5	350.7	58.81	6.963	
8,450.0	8,220.8	8,244.2	8,220.8	29.4	29.7	-127.12	380.1	-211.1	454.2	395.3	58.84	7.719	
8,500.0	8,231.9	8,255.2	8,231.9	29.4	29.8	-119.68	380.1	-211.1	500.5	441.7	58.85	8.505	
8,550.0	8,238.6	8,261.9	8,238.6	29.5	29.8	-107.89	380.1	-211.1	548.0	489.1	58.84	9.313	
8,602.3	8,241.0	8,264.3	8,241.0	29.7	29.8	-90.00	380.1	-211.1	598.4	539.6	58.82	10.174	
8,694.2	8,241.0	8,264.3	8,241.0	30.0	29.8	-90.00	380.1	-211.1	687.5	628.7	58.77	11.698	
8,700.0	8,241.0	8,264.3	8,241.0	30.0	29.8	-90.00	380.1	-211.1	693.1	634.3	58.77	11.794	
8,800.0	8,241.0	8,264.3	8,241.0	30.4	29.8	-90.00	380.1	-211.1	790.5	731.7	58.73	13.459	
8,900.0	8,241.0	8,264.3	8,241.0	30.9	29.8	-90.00	380.1	-211.1	888.4	829.7	58.70	15.134	

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 #102H
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 #102H	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	
9,000.0	8,241.0	8,264.3	8,241.0	31.5	29.8	-90.00	380.1	-211.1	986.8	928.1	58.68	16.815	
9,100.0	8,241.0	8,264.3	8,241.0	32.1	29.8	-90.00	380.1	-211.1	1,085.4	1,026.8	58.67	18.501	
9,200.0	8,241.0	8,264.3	8,241.0	32.8	29.8	-90.00	380.1	-211.1	1,184.3	1,125.6	58.66	20.189	
9,300.0	8,241.0	8,264.3	8,241.0	33.6	29.8	-90.00	380.1	-211.1	1,283.4	1,224.7	58.66	21.880	
9,400.0	8,241.0	8,264.3	8,241.0	34.4	29.8	-90.00	380.1	-211.1	1,382.6	1,323.9	58.65	23.572	
9,500.0	8,241.0	8,264.3	8,241.0	35.3	29.8	-90.00	380.1	-211.1	1,481.9	1,423.2	58.65	25.264	
9,600.0	8,241.0	8,264.3	8,241.0	36.3	29.8	-90.00	380.1	-211.1	1,581.2	1,522.6	58.66	26.957	
9,700.0	8,241.0	8,264.3	8,241.0	37.2	29.8	-90.00	380.1	-211.1	1,680.7	1,622.0	58.66	28.651	
9,800.0	8,241.0	11,501.7	9,940.0	38.3	43.3	-169.38	-1,390.9	-47.7	1,728.6	1,690.9	37.68	45.871	
9,900.0	8,241.0	11,601.7	9,940.0	39.3	44.2	-169.38	-1,490.9	-47.0	1,728.6	1,689.7	38.95	44.375	
10,000.0	8,241.0	11,701.7	9,940.0	40.5	45.3	-169.38	-1,590.9	-46.2	1,728.6	1,688.4	40.25	42.945	
10,100.0	8,241.0	11,801.7	9,940.0	41.6	46.3	-169.38	-1,690.9	-45.4	1,728.6	1,687.1	41.58	41.578	
10,200.0	8,241.0	11,901.7	9,940.0	42.8	47.4	-169.38	-1,790.9	-44.7	1,728.6	1,685.7	42.92	40.274	
10,300.0	8,241.0	12,001.7	9,940.0	44.0	48.5	-169.38	-1,890.9	-43.9	1,728.6	1,684.3	44.29	39.031	
10,400.0	8,241.0	12,101.7	9,940.0	45.2	49.6	-169.38	-1,990.9	-43.1	1,728.6	1,683.0	45.67	37.847	
10,500.0	8,241.0	12,201.7	9,940.0	46.5	50.8	-169.38	-2,090.9	-42.4	1,728.6	1,681.6	47.08	36.719	
10,600.0	8,241.0	12,301.7	9,940.0	47.8	52.0	-169.38	-2,190.9	-41.6	1,728.6	1,680.1	48.50	35.645	
10,700.0	8,241.0	12,401.7	9,940.0	49.1	53.2	-169.38	-2,290.9	-40.8	1,728.6	1,678.7	49.93	34.621	
10,800.0	8,241.0	12,501.7	9,940.0	50.4	54.5	-169.38	-2,390.9	-40.0	1,728.6	1,677.3	51.38	33.646	
10,900.0	8,241.0	12,601.7	9,940.0	51.7	55.7	-169.38	-2,490.9	-39.3	1,728.6	1,675.8	52.84	32.717	
11,000.0	8,241.0	12,701.7	9,940.0	53.1	57.0	-169.38	-2,590.9	-38.5	1,728.6	1,674.3	54.31	31.831	
11,100.0	8,241.0	12,801.7	9,940.0	54.5	58.3	-169.37	-2,690.9	-37.7	1,728.6	1,672.8	55.79	30.986	
11,200.0	8,241.0	12,901.7	9,940.0	55.9	59.6	-169.37	-2,790.9	-37.0	1,728.6	1,671.4	57.28	30.180	
11,300.0	8,241.0	13,001.7	9,940.0	57.3	61.0	-169.37	-2,890.9	-36.2	1,728.6	1,669.9	58.78	29.410	
11,400.0	8,241.0	13,101.7	9,940.0	58.7	62.3	-169.37	-2,990.9	-35.4	1,728.6	1,668.4	60.29	28.674	
11,500.0	8,241.0	13,201.7	9,940.0	60.1	63.7	-169.37	-3,090.9	-34.7	1,728.6	1,666.8	61.80	27.971	
11,600.0	8,241.0	13,301.7	9,940.0	61.6	65.0	-169.37	-3,190.9	-33.9	1,728.6	1,665.3	63.32	27.299	
11,700.0	8,241.0	13,401.7	9,940.0	63.0	66.4	-169.37	-3,290.9	-33.1	1,728.6	1,663.8	64.85	26.655	
11,800.0	8,241.0	13,501.7	9,940.0	64.5	67.8	-169.37	-3,390.9	-32.3	1,728.6	1,662.3	66.39	26.039	
11,900.0	8,241.0	13,601.7	9,940.0	66.0	69.3	-169.37	-3,490.9	-31.6	1,728.6	1,660.7	67.93	25.448	
12,000.0	8,241.0	13,701.7	9,940.0	67.4	70.7	-169.37	-3,590.9	-30.8	1,728.6	1,659.2	69.47	24.882	
12,100.0	8,241.0	13,801.7	9,940.0	68.9	72.1	-169.37	-3,690.9	-30.0	1,728.6	1,657.6	71.03	24.338	
12,200.0	8,241.0	13,901.7	9,940.0	70.4	73.5	-169.37	-3,790.9	-29.3	1,728.6	1,656.1	72.58	23.817	
12,300.0	8,241.0	14,001.7	9,940.0	71.9	75.0	-169.37	-3,890.9	-28.5	1,728.6	1,654.5	74.14	23.316	
12,400.0	8,241.0	14,101.7	9,940.0	73.4	76.5	-169.37	-3,990.9	-27.7	1,728.6	1,652.9	75.71	22.834	
12,500.0	8,241.0	14,201.7	9,940.0	74.9	77.9	-169.37	-4,090.8	-27.0	1,728.6	1,651.4	77.27	22.370	
12,600.0	8,241.0	14,301.7	9,940.0	76.4	79.4	-169.37	-4,190.8	-26.2	1,728.6	1,649.8	78.85	21.924	
12,700.0	8,241.0	14,401.7	9,940.0	78.0	80.9	-169.37	-4,290.8	-25.4	1,728.6	1,648.2	80.42	21.495	
12,800.0	8,241.0	14,501.7	9,940.0	79.5	82.4	-169.37	-4,390.8	-24.7	1,728.6	1,646.6	82.00	21.081	
12,900.0	8,241.0	14,601.7	9,940.0	81.0	83.8	-169.37	-4,490.8	-23.9	1,728.6	1,645.1	83.58	20.682	
13,000.0	8,241.0	14,701.7	9,940.0	82.6	85.3	-169.37	-4,590.8	-23.1	1,728.6	1,643.5	85.17	20.298	
13,100.0	8,241.0	14,801.7	9,940.0	84.1	86.8	-169.37	-4,690.8	-22.3	1,728.6	1,641.9	86.75	19.926	
13,200.0	8,241.0	14,901.7	9,940.0	85.6	88.4	-169.37	-4,790.8	-21.6	1,728.6	1,640.3	88.34	19.568	
13,300.0	8,241.0	15,001.7	9,940.0	87.2	89.9	-169.37	-4,890.8	-20.8	1,728.6	1,638.7	89.93	19.221	
13,400.0	8,241.0	15,101.7	9,940.0	88.7	91.4	-169.37	-4,990.8	-20.0	1,728.6	1,637.1	91.53	18.886	
13,500.0	8,241.0	15,201.7	9,940.0	90.3	92.9	-169.37	-5,090.8	-19.3	1,728.7	1,635.5	93.13	18.563	
13,600.0	8,241.0	15,301.7	9,940.0	91.9	94.4	-169.37	-5,190.8	-18.5	1,728.7	1,633.9	94.72	18.249	
13,700.0	8,241.0	15,401.7	9,940.0	93.4	96.0	-169.37	-5,290.8	-17.7	1,728.7	1,632.3	96.33	17.946	
13,800.0	8,241.0	15,501.7	9,940.0	95.0	97.5	-169.37	-5,390.8	-17.0	1,728.7	1,630.7	97.93	17.652	
13,900.0	8,241.0	15,601.7	9,940.0	96.6	99.0	-169.37	-5,490.8	-16.2	1,728.7	1,629.1	99.53	17.368	
14,000.0	8,241.0	15,701.7	9,940.0	98.1	100.6	-169.37	-5,590.8	-15.4	1,728.7	1,627.5	101.14	17.092	
14,100.0	8,241.0	15,801.7	9,940.0	99.7	102.1	-169.37	-5,690.8	-14.7	1,728.7	1,625.9	102.75	16.824	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Boros Federal #102H
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 #102H	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	8,241.0	15,901.7	9,940.0	101.3	103.7	-169.37	-5,790.8	-13.9	1,728.7	1,624.3	104.36	16.565		
14,300.0	8,241.0	16,001.7	9,940.0	102.9	105.2	-169.37	-5,890.8	-13.1	1,728.7	1,622.7	105.97	16.313		
14,400.0	8,241.0	16,101.7	9,940.0	104.4	106.8	-169.37	-5,990.8	-12.3	1,728.7	1,621.1	107.58	16.069		
14,500.0	8,241.0	16,201.7	9,940.0	106.0	108.3	-169.37	-6,090.8	-11.6	1,728.7	1,619.5	109.19	15.831		
14,600.0	8,241.0	16,301.7	9,940.0	107.6	109.9	-169.37	-6,190.8	-10.8	1,728.7	1,617.8	110.81	15.601		
14,700.0	8,241.0	16,401.7	9,940.0	109.2	111.5	-169.37	-6,290.8	-10.0	1,728.7	1,616.2	112.42	15.376		
14,800.0	8,241.0	16,501.7	9,940.0	110.8	113.0	-169.37	-6,390.8	-9.3	1,728.7	1,614.6	114.04	15.158		
14,900.0	8,241.0	16,601.7	9,940.0	112.4	114.6	-169.37	-6,490.8	-8.5	1,728.7	1,613.0	115.66	14.946		
15,000.0	8,241.0	16,701.7	9,940.0	114.0	116.2	-169.37	-6,590.8	-7.7	1,728.7	1,611.4	117.28	14.740		
15,100.0	8,241.0	16,801.7	9,940.0	115.6	117.7	-169.37	-6,690.8	-7.0	1,728.7	1,609.8	118.90	14.539		
15,200.0	8,241.0	16,901.7	9,940.0	117.1	119.3	-169.37	-6,790.8	-6.2	1,728.7	1,608.1	120.52	14.343		
15,300.0	8,241.0	17,001.7	9,940.0	118.7	120.9	-169.37	-6,890.8	-5.4	1,728.7	1,606.5	122.14	14.153		
15,400.0	8,241.0	17,101.7	9,940.0	120.3	122.5	-169.37	-6,990.8	-4.6	1,728.7	1,604.9	123.77	13.967		
15,500.0	8,241.0	17,201.7	9,940.0	121.9	124.0	-169.37	-7,090.8	-3.9	1,728.7	1,603.3	125.39	13.786		
15,600.0	8,241.0	17,301.7	9,940.0	123.5	125.6	-169.37	-7,190.8	-3.1	1,728.7	1,601.6	127.02	13.610		
15,700.0	8,241.0	17,401.7	9,940.0	125.1	127.2	-169.37	-7,290.8	-2.3	1,728.7	1,600.0	128.64	13.438		
15,800.0	8,241.0	17,501.7	9,940.0	126.7	128.8	-169.37	-7,390.8	-1.6	1,728.7	1,598.4	130.27	13.270		
15,900.0	8,241.0	17,601.7	9,940.0	128.3	130.4	-169.37	-7,490.7	-0.8	1,728.7	1,596.8	131.90	13.106		
16,000.0	8,241.0	17,701.7	9,940.0	129.9	132.0	-169.37	-7,590.7	0.0	1,728.7	1,595.1	133.53	12.946		
16,100.0	8,241.0	17,801.7	9,940.0	131.6	133.5	-169.37	-7,690.7	0.7	1,728.7	1,593.5	135.16	12.790		
16,200.0	8,241.0	17,901.7	9,940.0	133.2	135.1	-169.37	-7,790.7	1.5	1,728.7	1,591.9	136.79	12.638		
16,300.0	8,241.0	18,001.7	9,940.0	134.8	136.7	-169.37	-7,890.7	2.3	1,728.7	1,590.2	138.42	12.489		
16,400.0	8,241.0	18,101.7	9,940.0	136.4	138.3	-169.37	-7,990.7	3.0	1,728.7	1,588.6	140.05	12.343		
16,500.0	8,241.0	18,201.7	9,940.0	138.0	139.9	-169.37	-8,090.7	3.8	1,728.7	1,587.0	141.68	12.201		
16,600.0	8,241.0	18,301.7	9,940.0	139.6	141.5	-169.37	-8,190.7	4.6	1,728.7	1,585.4	143.31	12.062		
16,700.0	8,241.0	18,401.7	9,940.0	141.2	143.1	-169.37	-8,290.7	5.4	1,728.7	1,583.7	144.94	11.926		
16,800.0	8,241.0	18,501.7	9,940.0	142.8	144.7	-169.37	-8,390.7	6.1	1,728.7	1,582.1	146.58	11.794		
16,900.0	8,241.0	18,601.7	9,940.0	144.4	146.3	-169.37	-8,490.7	6.9	1,728.7	1,580.5	148.21	11.664		
17,000.0	8,241.0	18,701.7	9,940.0	146.1	147.9	-169.37	-8,590.7	7.7	1,728.7	1,578.8	149.85	11.536		
17,100.0	8,241.0	18,801.7	9,940.0	147.7	149.5	-169.37	-8,690.7	8.4	1,728.7	1,577.2	151.48	11.412		
17,200.0	8,241.0	18,901.7	9,940.0	149.3	151.1	-169.37	-8,790.7	9.2	1,728.7	1,575.6	153.12	11.290		
17,300.0	8,241.0	19,001.7	9,940.0	150.9	152.7	-169.37	-8,890.7	10.0	1,728.7	1,573.9	154.75	11.171		
17,400.0	8,241.0	19,101.7	9,940.0	152.5	154.3	-169.37	-8,990.7	10.7	1,728.7	1,572.3	156.39	11.054		
17,500.0	8,241.0	19,201.7	9,940.0	154.1	155.9	-169.37	-9,090.7	11.5	1,728.7	1,570.6	158.03	10.939		
17,600.0	8,241.0	19,301.7	9,940.0	155.8	157.5	-169.37	-9,190.7	12.3	1,728.7	1,569.0	159.66	10.827		
17,700.0	8,241.0	19,401.7	9,940.0	157.4	159.1	-169.37	-9,290.7	13.0	1,728.7	1,567.4	161.30	10.717		
17,800.0	8,241.0	19,501.7	9,940.0	159.0	160.7	-169.37	-9,390.7	13.8	1,728.7	1,565.7	162.94	10.609		
17,900.0	8,241.0	19,601.7	9,940.0	160.6	162.4	-169.37	-9,490.7	14.6	1,728.7	1,564.1	164.58	10.504		
18,000.0	8,241.0	19,701.7	9,940.0	162.2	164.0	-169.37	-9,590.7	15.4	1,728.7	1,562.5	166.22	10.400		
18,100.0	8,241.0	19,801.7	9,940.0	163.9	165.6	-169.37	-9,690.7	16.1	1,728.7	1,560.8	167.86	10.299		
18,200.0	8,241.0	19,901.7	9,940.0	165.5	167.2	-169.37	-9,790.7	16.9	1,728.7	1,559.2	169.50	10.199		
18,300.0	8,241.0	20,001.7	9,940.0	167.1	168.8	-169.37	-9,890.7	17.7	1,728.7	1,557.5	171.14	10.101		
18,400.0	8,241.0	20,101.7	9,940.0	168.7	170.4	-169.37	-9,990.7	18.4	1,728.7	1,555.9	172.78	10.005		
18,500.0	8,241.0	20,201.7	9,940.0	170.3	172.0	-169.37	-10,090.7	19.2	1,728.7	1,554.3	174.42	9.911		
18,541.8	8,241.0	20,243.5	9,940.0	171.0	172.7	-169.37	-10,132.5	19.5	1,728.7	1,553.6	175.10	9.872		
18,542.4	8,241.0	20,244.1	9,940.0	171.0	172.7	-169.37	-10,133.0	19.5	1,728.7	1,553.6	175.11	9.872		

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 #102H
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 #102H	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	-90.41	-0.8	-110.0	110.0				
100.0	100.0	100.0	100.0	0.1	0.1	-90.41	-0.8	-110.0	110.0	109.7	0.26	429.172	
200.0	200.0	200.0	200.0	0.5	0.5	-90.41	-0.8	-110.0	110.0	109.0	0.97	113.023	
300.0	300.0	300.0	300.0	0.8	0.8	-90.41	-0.8	-110.0	110.0	108.3	1.69	65.081	
400.0	400.0	400.0	400.0	1.2	1.2	-90.41	-0.8	-110.0	110.0	107.6	2.41	45.697	
500.0	500.0	500.0	500.0	1.6	1.6	-90.41	-0.8	-110.0	110.0	106.9	3.12	35.210	
600.0	600.0	600.0	600.0	1.9	1.9	-90.41	-0.8	-110.0	110.0	106.2	3.84	28.638	
700.0	700.0	700.0	700.0	2.3	2.3	-90.41	-0.8	-110.0	110.0	105.4	4.56	24.134	
800.0	800.0	800.0	800.0	2.6	2.6	-90.41	-0.8	-110.0	110.0	104.7	5.27	20.853	
900.0	900.0	900.0	900.0	3.0	3.0	-90.41	-0.8	-110.0	110.0	104.0	5.99	18.358	
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	-90.41	-0.8	-110.0	110.0	103.3	6.71	16.396	
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	-90.41	-0.8	-110.0	110.0	102.6	7.43	14.813	
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	-90.41	-0.8	-110.0	110.0	101.9	8.14	13.509	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.41	-0.8	-110.0	110.0	101.1	8.86	12.416	
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	-90.41	-0.8	-110.0	110.0	100.4	9.58	11.486	
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	-90.41	-0.8	-110.0	110.0	99.7	10.29	10.686	
1,600.0	1,600.0	1,600.0	1,600.0	5.5	5.5	-90.41	-0.8	-110.0	110.0	99.0	11.01	9.991	
1,700.0	1,700.0	1,700.0	1,700.0	5.9	5.9	-90.41	-0.8	-110.0	110.0	98.3	11.73	9.380	
1,800.0	1,800.0	1,800.0	1,800.0	6.2	6.2	-90.41	-0.8	-110.0	110.0	97.6	12.44	8.839	
1,900.0	1,900.0	1,900.0	1,900.0	6.6	6.6	-90.41	-0.8	-110.0	110.0	96.8	13.16	8.358	
2,000.0	2,000.0	2,000.0	2,000.0	6.9	6.9	-90.41	-0.8	-110.0	110.0	96.1	13.88	7.926	
2,100.0	2,100.0	2,100.0	2,100.0	7.3	7.3	-90.41	-0.8	-110.0	110.0	95.4	14.60	7.537	
2,200.0	2,200.0	2,200.0	2,200.0	7.7	7.7	-90.41	-0.8	-110.0	110.0	94.7	15.31	7.184	
2,300.0	2,300.0	2,300.0	2,300.0	8.0	8.0	-90.41	-0.8	-110.0	110.0	94.0	16.03	6.863	
2,400.0	2,400.0	2,400.0	2,400.0	8.4	8.4	-90.41	-0.8	-110.0	110.0	93.3	16.75	6.569	
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	-90.41	-0.8	-110.0	110.0	92.5	17.46	6.299	
2,600.0	2,600.0	2,598.8	2,598.8	9.1	9.1	-90.08	-0.1	-110.5	110.6	92.4	18.17	6.084	
2,700.0	2,700.0	2,697.5	2,697.4	9.4	9.4	-89.08	1.8	-112.2	112.2	93.4	18.88	5.946	
2,800.0	2,800.0	2,796.1	2,795.9	9.8	9.8	-87.50	5.0	-115.0	115.1	95.6	19.58	5.881	
2,900.0	2,900.0	2,894.5	2,894.2	10.2	10.1	-85.41	9.5	-118.8	119.3	99.1	20.27	5.886	
3,000.0	3,000.0	2,992.7	2,992.1	10.5	10.5	-82.94	15.3	-123.7	124.9	104.0	20.96	5.959	
3,100.0	3,100.0	3,090.7	3,089.6	10.9	10.8	-36.72	22.4	-129.7	131.4	109.7	21.64	6.069	
3,200.0	3,200.0	3,188.5	3,186.8	11.2	11.2	-34.41	30.6	-136.8	137.9	115.6	22.32	6.181	
3,300.0	3,299.9	3,286.2	3,283.7	11.6	11.5	-32.28	40.2	-144.9	144.6	121.6	22.98	6.293	
3,400.0	3,399.7	3,385.6	3,382.2	11.9	11.9	-30.42	50.7	-153.9	150.9	127.2	23.68	6.372	
3,500.0	3,499.4	3,485.4	3,481.0	12.3	12.3	-29.01	61.3	-162.9	155.8	131.4	24.39	6.388	
3,600.0	3,598.9	3,585.3	3,579.9	12.7	12.7	-27.99	71.9	-171.9	159.2	134.1	25.10	6.345	
3,700.0	3,698.3	3,685.3	3,678.9	13.0	13.0	-27.30	82.4	-181.0	161.2	135.3	25.81	6.244	
3,800.0	3,797.4	3,785.3	3,778.0	13.4	13.4	-26.92	93.0	-190.0	161.6	135.0	26.53	6.090	
3,900.0	3,896.4	3,885.3	3,877.0	13.8	13.8	-26.67	103.6	-199.0	161.2	133.9	27.25	5.916	
4,000.0	3,995.5	3,985.3	3,976.0	14.1	14.2	-26.42	114.2	-208.0	160.8	132.8	27.97	5.750	
4,100.0	4,094.5	4,085.3	4,075.0	14.5	14.6	-26.18	124.8	-217.1	160.4	131.8	28.69	5.592	
4,200.0	4,193.5	4,185.3	4,174.0	14.9	15.0	-25.93	135.4	-226.1	160.1	130.7	29.42	5.442	
4,300.0	4,292.5	4,285.3	4,273.1	15.2	15.4	-25.68	146.0	-235.1	159.7	129.6	30.14	5.299	
4,400.0	4,391.6	4,385.3	4,372.1	15.6	15.7	-25.43	156.6	-244.2	159.4	128.5	30.87	5.162	
4,500.0	4,490.6	4,485.3	4,471.1	16.0	16.1	-25.17	167.2	-253.2	159.0	127.4	31.60	5.032	
4,600.0	4,589.6	4,585.2	4,570.1	16.4	16.5	-24.92	177.8	-262.2	158.7	126.3	32.33	4.907	
4,700.0	4,688.6	4,685.2	4,669.2	16.8	16.9	-24.67	188.4	-271.2	158.3	125.2	33.06	4.788	
4,800.0	4,787.7	4,785.2	4,768.2	17.2	17.3	-24.41	198.9	-280.3	158.0	124.2	33.79	4.674	
4,900.0	4,886.7	4,885.2	4,867.2	17.6	17.7	-24.15	209.5	-289.3	157.6	123.1	34.52	4.565	
5,000.0	4,985.7	4,985.2	4,966.2	17.9	18.1	-23.90	220.1	-298.3	157.3	122.0	35.26	4.461	
5,100.0	5,084.8	5,085.2	5,065.3	18.3	18.5	-23.64	230.7	-307.4	156.9	120.9	35.99	4.360	

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 #102H
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 #102H	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	5,183.8	5,185.2	5,164.3	18.7	18.9	-23.38	241.3	-316.4	156.6	119.9	36.73	4.264	
5,300.0	5,282.8	5,285.2	5,263.3	19.1	19.3	-23.12	251.9	-325.4	156.3	118.8	37.46	4.172	
5,400.0	5,381.8	5,385.2	5,362.3	19.5	19.7	-22.85	262.5	-334.4	155.9	117.8	38.20	4.083	
5,500.0	5,480.9	5,485.2	5,461.4	19.9	20.1	-22.59	273.1	-343.5	155.6	116.7	38.93	3.997	
5,600.0	5,579.9	5,585.2	5,560.4	20.3	20.5	-22.33	283.7	-352.5	155.3	115.6	39.67	3.915	
5,700.0	5,678.9	5,685.2	5,659.4	20.7	20.9	-22.06	294.3	-361.5	155.0	114.6	40.40	3.836	
5,800.0	5,777.9	5,785.2	5,758.4	21.1	21.3	-21.79	304.8	-370.6	154.7	113.5	41.14	3.760	
5,900.0	5,877.0	5,885.2	5,857.5	21.5	21.7	-21.53	315.4	-379.6	154.4	112.5	41.88	3.686	
6,000.0	5,976.0	5,985.2	5,956.5	21.9	22.1	-21.26	326.0	-388.6	154.1	111.4	42.61	3.615	
6,100.0	6,075.0	6,085.2	6,055.5	22.3	22.5	-20.99	336.6	-397.6	153.8	110.4	43.35	3.547	
6,200.0	6,174.0	6,185.2	6,154.5	22.7	22.9	-20.72	347.2	-406.7	153.5	109.4	44.09	3.481	
6,300.0	6,273.1	6,288.4	6,256.9	23.1	23.4	-20.59	357.4	-415.3	152.2	107.4	44.88	3.392	
6,400.0	6,372.1	6,392.1	6,360.0	23.5	23.8	-20.89	365.5	-422.2	148.6	102.9	45.67	3.253	
6,500.0	6,471.1	6,495.5	6,463.1	23.9	24.1	-21.68	371.4	-427.3	142.5	96.0	46.44	3.068	
6,600.0	6,570.2	6,598.4	6,565.9	24.3	24.5	-23.05	375.2	-430.6	134.0	86.8	47.19	2.839	
6,700.0	6,669.2	6,700.8	6,668.3	24.7	24.9	-25.20	376.9	-432.0	123.2	75.2	47.92	2.570	
6,800.0	6,768.2	6,800.8	6,768.2	25.1	25.2	-28.26	377.0	-432.1	110.8	62.1	48.70	2.276	
6,878.7	6,846.2	6,878.7	6,846.2	25.4	25.5	-31.19	377.0	-432.1	101.3	51.9	49.35	2.052	
6,900.0	6,867.2	6,900.2	6,867.2	25.5	25.6	-32.04	377.0	-432.1	98.8	49.3	49.53	1.995	
7,000.0	6,966.5	7,000.9	6,966.5	25.9	25.9	-36.07	377.0	-432.1	88.8	38.4	50.39	1.762	
7,100.0	7,066.1	7,101.4	7,066.1	26.3	26.2	-39.92	377.0	-432.1	81.3	30.1	51.24	1.587	
7,200.0	7,165.8	7,201.6	7,165.8	26.7	26.6	-43.18	377.0	-432.1	76.2	24.1	52.07	1.463 Level 3	
7,300.0	7,265.7	7,301.7	7,265.7	27.0	26.9	-45.42	377.0	-432.1	73.1	20.3	52.85	1.384 Level 3	
7,400.0	7,365.7	7,401.7	7,365.7	27.4	27.3	-46.32	377.0	-432.1	72.0	18.4	53.58	1.344 Level 3	
7,412.1	7,377.8	7,410.3	7,377.8	27.4	27.3	-90.02	377.0	-432.1	72.0	18.3	53.66	1.342 Level 3	
7,500.0	7,465.7	7,501.7	7,465.7	27.7	27.6	-90.02	377.0	-432.1	72.0	17.7	54.28	1.326 Level 3	
7,600.0	7,565.7	7,601.7	7,565.7	28.1	28.0	-90.02	377.0	-432.1	72.0	17.0	54.97	1.309 Level 3	
7,702.3	7,668.0	7,700.5	7,668.0	28.4	28.3	-90.02	377.0	-432.1	72.0	16.3	55.67	1.293 Level 3	
7,747.5	7,713.2	7,745.7	7,713.2	28.5	28.4	90.00	377.0	-432.1	72.0	16.0	55.92	1.287 Level 3, CC	
7,750.0	7,715.7	7,748.2	7,715.7	28.6	28.5	90.16	377.0	-432.1	72.0	16.0	55.93	1.287 Level 3, ES, SF	
7,800.0	7,765.2	7,802.2	7,765.2	28.7	28.6	95.11	377.0	-432.1	72.3	16.2	56.09	1.288 Level 3	
7,850.0	7,814.1	7,846.6	7,814.1	28.8	28.8	102.98	377.0	-432.1	74.0	17.9	56.12	1.318 Level 3	
7,900.0	7,861.8	7,905.6	7,861.8	28.9	29.0	112.70	377.0	-432.1	78.8	22.5	56.20	1.401 Level 3	
7,950.0	7,908.1	7,940.6	7,908.1	29.0	29.1	122.73	377.0	-432.1	88.2	31.9	56.30	1.566	
8,000.0	7,952.5	7,985.0	7,952.5	29.1	29.3	131.69	377.0	-432.1	103.1	46.5	56.59	1.822	
8,050.0	7,994.8	8,027.3	7,994.8	29.2	29.4	138.93	377.0	-432.1	123.6	66.7	56.95	2.171	
8,100.0	8,034.5	8,067.1	8,034.5	29.3	29.5	144.41	377.0	-432.1	149.3	92.0	57.33	2.604	
8,150.0	8,071.5	8,104.1	8,071.5	29.3	29.7	148.35	377.0	-432.1	179.5	121.8	57.68	3.111	
8,200.0	8,105.4	8,138.0	8,105.4	29.3	29.8	151.02	377.0	-432.1	213.6	155.6	57.99	3.684	
8,250.0	8,136.0	8,168.6	8,136.0	29.4	29.9	152.60	377.0	-432.1	251.2	192.9	58.26	4.312	
8,300.0	8,163.0	8,204.4	8,163.0	29.4	30.0	153.18	377.0	-432.1	291.7	233.2	58.51	4.986	
8,350.0	8,186.3	8,218.9	8,186.3	29.4	30.1	152.69	377.0	-432.1	334.8	276.1	58.66	5.707	
8,400.0	8,205.6	8,238.2	8,205.6	29.4	30.1	150.85	377.0	-432.1	379.9	321.1	58.81	6.460	
8,450.0	8,220.8	8,253.4	8,220.8	29.4	30.2	146.93	377.0	-432.1	426.8	367.9	58.93	7.243	
8,500.0	8,231.9	8,264.4	8,231.9	29.4	30.2	139.20	377.0	-432.1	474.9	415.9	59.01	8.048	
8,550.0	8,238.6	8,271.1	8,238.6	29.5	30.3	123.32	377.0	-432.1	523.9	464.9	59.07	8.869	
8,602.3	8,241.0	8,273.5	8,241.0	29.7	30.3	90.00	377.0	-432.1	575.7	516.6	59.11	9.739	
8,694.2	8,241.0	8,273.5	8,241.0	30.0	30.3	90.00	377.0	-432.1	667.2	608.0	59.15	11.280	
8,700.0	8,241.0	8,273.5	8,241.0	30.0	30.3	90.00	377.0	-432.1	672.9	613.8	59.15	11.376	
8,800.0	8,241.0	8,273.5	8,241.0	30.4	30.3	90.00	377.0	-432.1	772.6	713.5	59.18	13.057	
8,900.0	8,241.0	8,273.5	8,241.0	30.9	30.3	90.00	377.0	-432.1	872.4	813.2	59.20	14.737	
9,000.0	8,241.0	8,273.5	8,241.0	31.5	30.3	90.00	377.0	-432.1	972.3	913.1	59.22	16.418	

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 #102H
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 #102H	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	
9,100.0	8,241.0	8,273.5	8,241.0	32.1	30.3	90.01	377.0	-432.1	1,072.2	1,012.9	59.24	18.099	
9,200.0	8,241.0	8,273.5	8,241.0	32.8	30.3	90.01	377.0	-432.1	1,172.0	1,112.8	59.26	19.780	
9,300.0	8,241.0	8,273.5	8,241.0	33.6	30.3	90.01	377.0	-432.1	1,272.0	1,212.7	59.27	21.460	
9,400.0	8,241.0	8,273.5	8,241.0	34.4	30.3	90.01	377.0	-432.1	1,371.9	1,312.6	59.29	23.139	
9,500.0	8,241.0	8,273.5	8,241.0	35.3	30.3	90.01	377.0	-432.1	1,471.8	1,412.5	59.31	24.817	
9,600.0	8,241.0	8,273.5	8,241.0	36.3	30.3	90.01	377.0	-432.1	1,571.7	1,512.4	59.32	26.495	
9,700.0	8,241.0	8,273.5	8,241.0	37.2	30.3	90.01	377.0	-432.1	1,671.7	1,612.4	59.34	28.171	
9,800.0	8,241.0	8,273.5	8,241.0	38.3	30.3	90.01	377.0	-432.1	1,771.7	1,712.3	59.36	29.847	
9,900.0	8,241.0	8,273.5	8,241.0	39.3	30.3	90.01	377.0	-432.1	1,871.6	1,812.2	59.38	31.521	
10,000.0	8,241.0	8,273.5	8,241.0	40.5	30.3	90.01	377.0	-432.1	1,971.6	1,912.2	59.40	33.194	
10,100.0	8,241.0	8,273.5	8,241.0	41.6	30.3	90.01	377.0	-432.1	2,071.5	2,012.1	59.41	34.866	
10,200.0	8,241.0	8,273.5	8,241.0	42.8	30.3	90.01	377.0	-432.1	2,171.5	2,112.1	59.44	36.536	
10,300.0	8,241.0	8,273.5	8,241.0	44.0	30.3	90.01	377.0	-432.1	2,271.5	2,212.0	59.46	38.204	
10,400.0	8,241.0	8,273.5	8,241.0	45.2	30.3	90.01	377.0	-432.1	2,371.5	2,312.0	59.48	39.871	
10,500.0	8,241.0	8,273.5	8,241.0	46.5	30.3	90.01	377.0	-432.1	2,471.4	2,411.9	59.50	41.536	
10,600.0	8,241.0	8,273.5	8,241.0	47.8	30.3	90.01	377.0	-432.1	2,571.4	2,511.9	59.52	43.200	
10,700.0	8,241.0	13,353.4	10,895.0	49.1	55.0	179.63	-2,293.5	-376.9	2,654.1	2,606.3	47.72	55.617	
10,800.0	8,241.0	13,453.4	10,895.0	50.4	56.2	179.63	-2,393.5	-376.1	2,654.1	2,605.0	49.08	54.074	
10,900.0	8,241.0	13,553.4	10,895.0	51.7	57.4	179.63	-2,493.5	-375.3	2,654.1	2,603.6	50.46	52.602	
11,000.0	8,241.0	13,653.4	10,895.0	53.1	58.7	179.63	-2,593.5	-374.6	2,654.1	2,602.2	51.84	51.197	
11,100.0	8,241.0	13,753.4	10,895.0	54.5	59.9	179.63	-2,693.5	-373.8	2,654.1	2,600.8	53.23	49.856	
11,200.0	8,241.0	13,853.4	10,895.0	55.9	61.2	179.63	-2,793.5	-373.0	2,654.1	2,599.4	54.64	48.576	
11,300.0	8,241.0	13,953.4	10,895.0	57.3	62.5	179.63	-2,893.5	-372.2	2,654.1	2,598.0	56.05	47.352	
11,400.0	8,241.0	14,053.4	10,895.0	58.7	63.8	179.63	-2,993.5	-371.5	2,654.1	2,596.6	57.47	46.182	
11,500.0	8,241.0	14,153.4	10,895.0	60.1	65.1	179.63	-3,093.5	-370.7	2,654.1	2,595.2	58.90	45.063	
11,600.0	8,241.0	14,253.4	10,895.0	61.6	66.4	179.63	-3,193.5	-369.9	2,654.1	2,593.7	60.33	43.992	
11,700.0	8,241.0	14,353.4	10,895.0	63.0	67.8	179.63	-3,293.5	-369.2	2,654.1	2,592.3	61.77	42.966	
11,800.0	8,241.0	14,453.4	10,895.0	64.5	69.1	179.63	-3,393.5	-368.4	2,654.1	2,590.8	63.22	41.983	
11,900.0	8,241.0	14,553.4	10,895.0	66.0	70.5	179.63	-3,493.4	-367.6	2,654.1	2,589.4	64.67	41.040	
12,000.0	8,241.0	14,653.4	10,895.0	67.4	71.9	179.63	-3,593.4	-366.8	2,654.1	2,587.9	66.13	40.136	
12,100.0	8,241.0	14,753.4	10,895.0	68.9	73.3	179.63	-3,693.4	-366.1	2,654.1	2,586.5	67.59	39.267	
12,200.0	8,241.0	14,853.4	10,895.0	70.4	74.7	179.63	-3,793.4	-365.3	2,654.1	2,585.0	69.06	38.433	
12,300.0	8,241.0	14,953.4	10,895.0	71.9	76.1	179.63	-3,893.4	-364.5	2,654.1	2,583.5	70.53	37.631	
12,400.0	8,241.0	15,053.4	10,895.0	73.4	77.5	179.63	-3,993.4	-363.8	2,654.1	2,582.1	72.00	36.860	
12,500.0	8,241.0	15,153.4	10,895.0	74.9	78.9	179.63	-4,093.4	-363.0	2,654.1	2,580.6	73.48	36.118	
12,600.0	8,241.0	15,253.4	10,895.0	76.4	80.4	179.63	-4,193.4	-362.2	2,654.1	2,579.1	74.96	35.404	
12,700.0	8,241.0	15,353.4	10,895.0	78.0	81.8	179.63	-4,293.4	-361.4	2,654.1	2,577.6	76.45	34.716	
12,800.0	8,241.0	15,453.4	10,895.0	79.5	83.3	179.63	-4,393.4	-360.7	2,654.1	2,576.1	77.94	34.052	
12,900.0	8,241.0	15,553.4	10,895.0	81.0	84.7	179.63	-4,493.4	-359.9	2,654.1	2,574.6	79.43	33.413	
13,000.0	8,241.0	15,653.4	10,895.0	82.6	86.2	179.63	-4,593.4	-359.1	2,654.1	2,573.1	80.93	32.795	
13,100.0	8,241.0	15,753.4	10,895.0	84.1	87.7	179.63	-4,693.4	-358.4	2,654.1	2,571.6	82.43	32.199	
13,200.0	8,241.0	15,853.4	10,895.0	85.6	89.2	179.63	-4,793.4	-357.6	2,654.1	2,570.1	83.93	31.624	
13,300.0	8,241.0	15,953.4	10,895.0	87.2	90.7	179.63	-4,893.4	-356.8	2,654.1	2,568.6	85.43	31.067	
13,400.0	8,241.0	16,053.4	10,895.0	88.7	92.2	179.63	-4,993.4	-356.1	2,654.1	2,567.1	86.93	30.529	
13,500.0	8,241.0	16,153.4	10,895.0	90.3	93.6	179.63	-5,093.4	-355.3	2,654.1	2,565.6	88.44	30.009	
13,600.0	8,241.0	16,253.4	10,895.0	91.9	95.2	179.63	-5,193.4	-354.5	2,654.1	2,564.1	89.95	29.505	
13,700.0	8,241.0	16,353.4	10,895.0	93.4	96.7	179.63	-5,293.4	-353.7	2,654.1	2,562.6	91.46	29.018	
13,800.0	8,241.0	16,453.4	10,895.0	95.0	98.2	179.63	-5,393.4	-353.0	2,654.1	2,561.1	92.98	28.545	
13,900.0	8,241.0	16,553.4	10,895.0	96.6	99.7	179.63	-5,493.4	-352.2	2,654.1	2,559.6	94.49	28.088	
14,000.0	8,241.0	16,653.4	10,895.0	98.1	101.2	179.63	-5,593.4	-351.4	2,654.1	2,558.0	96.01	27.644	
14,100.0	8,241.0	16,753.4	10,895.0	99.7	102.7	179.63	-5,693.4	-350.7	2,654.1	2,556.5	97.53	27.213	
14,200.0	8,241.0	16,853.4	10,895.0	101.3	104.3	179.63	-5,793.4	-349.9	2,654.1	2,555.0	99.05	26.796	

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 #102H
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 #102H	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	
14,300.0	8,241.0	16,953.4	10,895.0	102.9	105.8	179.63	-5,893.4	-349.1	2,654.1	2,553.5	100.57	26.390	
14,400.0	8,241.0	17,053.4	10,895.0	104.4	107.3	179.63	-5,993.4	-348.3	2,654.1	2,552.0	102.09	25.996	
14,500.0	8,241.0	17,153.4	10,895.0	106.0	108.9	179.63	-6,093.4	-347.6	2,654.1	2,550.4	103.62	25.614	
14,600.0	8,241.0	17,253.4	10,895.0	107.6	110.4	179.63	-6,193.4	-346.8	2,654.1	2,548.9	105.14	25.242	
14,700.0	8,241.0	17,353.4	10,895.0	109.2	112.0	179.63	-6,293.4	-346.0	2,654.1	2,547.4	106.67	24.881	
14,800.0	8,241.0	17,453.4	10,895.0	110.8	113.5	179.63	-6,393.4	-345.3	2,654.1	2,545.9	108.20	24.529	
14,900.0	8,241.0	17,553.4	10,895.0	112.4	115.1	179.63	-6,493.4	-344.5	2,654.1	2,544.3	109.73	24.187	
15,000.0	8,241.0	17,653.4	10,895.0	114.0	116.6	179.63	-6,593.4	-343.7	2,654.1	2,542.8	111.26	23.855	
15,100.0	8,241.0	17,753.4	10,895.0	115.6	118.2	179.63	-6,693.4	-342.9	2,654.1	2,541.3	112.79	23.531	
15,200.0	8,241.0	17,853.4	10,895.0	117.1	119.7	179.63	-6,793.4	-342.2	2,654.1	2,539.7	114.32	23.215	
15,300.0	8,241.0	17,953.4	10,895.0	118.7	121.3	179.63	-6,893.3	-341.4	2,654.1	2,538.2	115.86	22.908	
15,400.0	8,241.0	18,053.4	10,895.0	120.3	122.9	179.63	-6,993.3	-340.6	2,654.1	2,536.7	117.39	22.608	
15,500.0	8,241.0	18,153.4	10,895.0	121.9	124.4	179.63	-7,093.3	-339.9	2,654.1	2,535.1	118.93	22.317	
15,600.0	8,241.0	18,253.4	10,895.0	123.5	126.0	179.63	-7,193.3	-339.1	2,654.1	2,533.6	120.46	22.032	
15,700.0	8,241.0	18,353.4	10,895.0	125.1	127.6	179.63	-7,293.3	-338.3	2,654.1	2,532.1	122.00	21.754	
15,800.0	8,241.0	18,453.4	10,895.0	126.7	129.1	179.63	-7,393.3	-337.5	2,654.1	2,530.5	123.54	21.483	
15,900.0	8,241.0	18,553.4	10,895.0	128.3	130.7	179.63	-7,493.3	-336.8	2,654.1	2,529.0	125.08	21.219	
16,000.0	8,241.0	18,653.4	10,895.0	129.9	132.3	179.63	-7,593.3	-336.0	2,654.1	2,527.4	126.62	20.961	
16,100.0	8,241.0	18,753.4	10,895.0	131.6	133.9	179.63	-7,693.3	-335.2	2,654.1	2,525.9	128.16	20.709	
16,200.0	8,241.0	18,853.4	10,895.0	133.2	135.4	179.63	-7,793.3	-334.5	2,654.1	2,524.4	129.70	20.463	
16,300.0	8,241.0	18,953.4	10,895.0	134.8	137.0	179.63	-7,893.3	-333.7	2,654.1	2,522.8	131.24	20.223	
16,400.0	8,241.0	19,053.4	10,895.0	136.4	138.6	179.63	-7,993.3	-332.9	2,654.1	2,521.3	132.78	19.988	
16,500.0	8,241.0	19,153.4	10,895.0	138.0	140.2	179.63	-8,093.3	-332.2	2,654.1	2,519.7	134.33	19.758	
16,600.0	8,241.0	19,253.4	10,895.0	139.6	141.8	179.63	-8,193.3	-331.4	2,654.1	2,518.2	135.87	19.534	
16,700.0	8,241.0	19,353.4	10,895.0	141.2	143.3	179.63	-8,293.3	-330.6	2,654.1	2,516.6	137.41	19.314	
16,800.0	8,241.0	19,453.4	10,895.0	142.8	144.9	179.63	-8,393.3	-329.8	2,654.1	2,515.1	138.96	19.100	
16,900.0	8,241.0	19,553.4	10,895.0	144.4	146.5	179.63	-8,493.3	-329.1	2,654.1	2,513.6	140.50	18.890	
17,000.0	8,241.0	19,653.4	10,895.0	146.1	148.1	179.63	-8,593.3	-328.3	2,654.1	2,512.0	142.05	18.684	
17,100.0	8,241.0	19,753.4	10,895.0	147.7	149.7	179.63	-8,693.3	-327.5	2,654.1	2,510.5	143.60	18.483	
17,200.0	8,241.0	19,853.4	10,895.0	149.3	151.3	179.63	-8,793.3	-326.8	2,654.1	2,508.9	145.14	18.286	
17,300.0	8,241.0	19,953.4	10,895.0	150.9	152.9	179.63	-8,893.3	-326.0	2,654.1	2,507.4	146.69	18.093	
17,400.0	8,241.0	20,053.4	10,895.0	152.5	154.5	179.63	-8,993.3	-325.2	2,654.1	2,505.8	148.24	17.904	
17,500.0	8,241.0	20,153.4	10,895.0	154.1	156.1	179.63	-9,093.3	-324.4	2,654.1	2,504.3	149.79	17.719	
17,600.0	8,241.0	20,253.4	10,895.0	155.8	157.7	179.63	-9,193.3	-323.7	2,654.1	2,502.7	151.34	17.538	
17,700.0	8,241.0	20,353.4	10,895.0	157.4	159.3	179.63	-9,293.3	-322.9	2,654.1	2,501.2	152.88	17.360	
17,800.0	8,241.0	20,453.4	10,895.0	159.0	160.9	179.63	-9,393.3	-322.1	2,654.1	2,499.6	154.43	17.186	
17,900.0	8,241.0	20,553.4	10,895.0	160.6	162.5	179.63	-9,493.3	-321.4	2,654.1	2,498.1	155.98	17.015	
18,000.0	8,241.0	20,653.4	10,895.0	162.2	164.1	179.63	-9,593.3	-320.6	2,654.1	2,496.5	157.53	16.847	
18,100.0	8,241.0	20,753.4	10,895.0	163.9	165.7	179.63	-9,693.3	-319.8	2,654.1	2,495.0	159.08	16.683	
18,200.0	8,241.0	20,853.4	10,895.0	165.5	167.3	179.63	-9,793.3	-319.0	2,654.1	2,493.4	160.64	16.522	
18,300.0	8,241.0	20,953.4	10,895.0	167.1	168.9	179.63	-9,893.3	-318.3	2,654.1	2,491.9	162.19	16.364	
18,400.0	8,241.0	21,053.4	10,895.0	168.7	170.5	179.63	-9,993.3	-317.5	2,654.1	2,490.3	163.74	16.209	
18,500.0	8,241.0	21,153.4	10,895.0	170.3	172.1	179.63	-10,093.3	-316.7	2,654.1	2,488.8	165.29	16.057	
18,541.8	8,241.0	21,195.2	10,895.0	171.0	172.8	179.63	-10,135.1	-316.4	2,654.1	2,488.1	165.94	15.994	
18,542.4	8,241.0	21,195.7	10,895.0	171.0	172.8	179.63	-10,135.6	-316.4	2,654.1	2,488.1	165.95	15.993	

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 #102H
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 #102H	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 #136H - 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	-69.82	29.5	-80.2	85.5				
100.0	100.0	100.0	100.0	0.1	0.1	-69.82	29.5	-80.2	85.5	85.2	0.26	333.464	
200.0	200.0	200.0	200.0	0.5	0.5	-69.82	29.5	-80.2	85.5	84.5	0.97	87.819	
300.0	300.0	300.0	300.0	0.8	0.8	-69.82	29.5	-80.2	85.5	83.8	1.69	50.568	
400.0	400.0	400.0	400.0	1.2	1.2	-69.82	29.5	-80.2	85.5	83.1	2.41	35.507	
500.0	500.0	500.0	500.0	1.6	1.6	-69.82	29.5	-80.2	85.5	82.3	3.12	27.358	
600.0	600.0	600.0	600.0	1.9	1.9	-69.82	29.5	-80.2	85.5	81.6	3.84	22.252	
700.0	700.0	700.0	700.0	2.3	2.3	-69.82	29.5	-80.2	85.5	80.9	4.56	18.752	
800.0	800.0	800.0	800.0	2.6	2.6	-69.82	29.5	-80.2	85.5	80.2	5.27	16.203	
900.0	900.0	900.0	900.0	3.0	3.0	-69.82	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	-69.82	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	-69.82	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	-69.82	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	-69.82	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	-69.82	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	-69.82	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	-69.82	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	-69.82	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	-69.82	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	-69.82	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	-69.82	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	-69.82	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	-69.82	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	-69.82	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	-69.82	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	-69.82	29.5	-80.2	85.5	68.0	17.46	4.894	
2,600.0	2,600.0	2,600.4	2,600.4	9.1	9.1	-69.25	30.2	-79.7	85.2	67.1	18.18	4.689	
2,700.0	2,700.0	2,700.7	2,700.6	9.4	9.4	-67.52	32.4	-78.2	84.6	65.7	18.89	4.480	
2,800.0	2,800.0	2,800.9	2,800.7	9.8	9.8	-64.59	36.0	-75.7	83.8	64.2	19.61	4.274	
2,900.0	2,900.0	2,900.9	2,900.6	10.2	10.2	-60.42	41.0	-72.2	83.0	62.7	20.32	4.084	
3,000.0	3,000.0	3,000.6	3,000.0	10.5	10.5	-55.00	47.4	-67.7	82.6	61.6	21.04	3.927	
3,100.0	3,100.0	3,100.1	3,099.0	10.9	10.9	-4.78	55.2	-62.2	82.3	60.5	21.75	3.784	
3,200.0	3,200.0	3,199.2	3,197.5	11.2	11.2	2.90	64.4	-55.8	81.7	59.3	22.46	3.639	
3,267.1	3,267.0	3,265.5	3,263.3	11.5	11.5	8.77	71.3	-50.9	81.5	58.6	22.92	3.557 CC	
3,300.0	3,299.9	3,302.1	3,295.4	11.6	11.6	11.85	74.9	-48.4	81.6	58.4	23.16	3.523 ES	
3,400.0	3,399.7	3,396.9	3,393.4	11.9	12.0	21.56	86.2	-40.5	82.3	58.5	23.84	3.455	
3,500.0	3,499.4	3,504.1	3,491.4	12.3	12.4	31.44	97.5	-32.6	83.9	59.4	24.55	3.419 SF	
3,600.0	3,598.9	3,605.3	3,589.2	12.7	12.7	41.40	108.7	-24.7	86.6	61.4	25.23	3.433	
3,700.0	3,698.3	3,693.4	3,687.0	13.0	13.1	51.33	120.0	-16.8	90.7	64.8	25.87	3.506	
3,800.0	3,797.4	3,808.1	3,784.6	13.4	13.5	61.02	131.2	-8.9	96.4	69.8	26.61	3.624	
3,900.0	3,896.4	3,909.6	3,882.0	13.8	13.9	69.90	142.4	-1.1	104.4	77.1	27.32	3.821	
4,000.0	3,995.5	3,988.8	3,979.5	14.1	14.2	77.41	153.6	6.8	114.5	86.5	27.96	4.094	
4,100.0	4,094.5	4,087.3	4,077.0	14.5	14.6	83.63	164.9	14.7	126.2	97.5	28.68	4.401	
4,200.0	4,193.5	4,185.7	4,174.5	14.9	15.0	88.76	176.1	22.5	139.2	109.8	29.41	4.733	
4,300.0	4,292.5	4,284.2	4,272.0	15.2	15.3	93.00	187.3	30.4	153.1	123.0	30.15	5.079	
4,400.0	4,391.6	4,382.6	4,369.5	15.6	15.7	96.52	198.5	38.3	167.7	136.8	30.89	5.430	
4,500.0	4,490.6	4,481.0	4,466.9	16.0	16.1	99.48	209.7	46.1	182.9	151.2	31.63	5.780	
4,600.0	4,589.6	4,579.5	4,564.4	16.4	16.5	101.98	221.0	54.0	198.4	166.0	32.38	6.127	
4,700.0	4,688.6	4,677.9	4,661.9	16.8	16.9	104.12	232.2	61.9	214.2	181.1	33.13	6.467	
4,800.0	4,787.7	4,776.4	4,759.4	17.2	17.3	105.96	243.4	69.7	230.3	196.5	33.88	6.799	
4,900.0	4,886.7	4,874.8	4,856.9	17.6	17.7	107.56	254.6	77.6	246.6	212.0	34.63	7.122	
5,000.0	4,985.7	4,973.2	4,954.4	17.9	18.1	108.96	265.8	85.5	263.1	227.7	35.38	7.436	

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 #102H
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 #102H	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 #136H - 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	5,084.8	5,071.7	5,051.9	18.3	18.4	110.20	277.0	93.3	279.7	243.6	36.14	7.740	
5,200.0	5,183.8	5,170.1	5,149.3	18.7	18.8	111.30	288.3	101.2	296.4	259.5	36.89	8.035	
5,300.0	5,282.8	5,268.6	5,246.8	19.1	19.2	112.28	299.5	109.1	313.2	275.6	37.65	8.320	
5,400.0	5,381.8	5,367.0	5,344.3	19.5	19.6	113.16	310.7	116.9	330.1	291.7	38.41	8.595	
5,500.0	5,480.9	5,465.5	5,441.8	19.9	20.0	113.96	321.9	124.8	347.1	307.9	39.17	8.862	
5,600.0	5,579.9	5,563.9	5,539.3	20.3	20.4	114.68	333.1	132.6	364.1	324.2	39.93	9.119	
5,700.0	5,678.9	5,662.3	5,636.8	20.7	20.8	115.33	344.4	140.5	381.2	340.5	40.69	9.368	
5,800.0	5,777.9	5,763.9	5,737.4	21.1	21.2	115.97	355.8	148.5	398.2	356.7	41.49	9.597	
5,900.0	5,877.0	5,871.6	5,844.3	21.5	21.6	116.79	365.9	155.6	413.5	371.1	42.35	9.763	
6,000.0	5,976.0	5,979.7	5,952.0	21.9	22.1	117.82	373.7	161.1	426.7	383.5	43.19	9.879	
6,100.0	6,075.0	6,088.0	6,060.2	22.3	22.4	119.04	378.9	164.7	437.9	393.9	44.00	9.951	
6,200.0	6,174.0	6,196.5	6,168.6	22.7	22.8	120.46	381.6	166.6	447.1	402.4	44.79	9.983	
6,300.0	6,273.1	6,301.0	6,273.1	23.1	23.2	122.00	382.0	166.9	454.8	409.2	45.55	9.985	
6,400.0	6,372.1	6,400.0	6,372.1	23.5	23.5	123.46	382.0	166.9	462.3	416.1	46.28	9.990	
6,500.0	6,471.1	6,500.9	6,471.1	23.9	23.9	124.86	382.0	166.9	470.2	423.2	47.02	10.001	
6,600.0	6,570.2	6,601.9	6,570.2	24.3	24.2	126.22	382.0	166.9	478.4	430.6	47.75	10.017	
6,700.0	6,669.2	6,702.9	6,669.2	24.7	24.6	127.53	382.0	166.9	486.8	438.3	48.49	10.038	
6,800.0	6,768.2	6,803.9	6,768.2	25.1	24.9	128.80	382.0	166.9	495.4	446.2	49.22	10.065	
6,878.7	6,846.2	6,874.1	6,846.2	25.4	25.2	129.77	382.0	166.9	502.4	452.6	49.77	10.095	
6,900.0	6,867.2	6,904.8	6,867.2	25.5	25.3	130.05	382.0	166.9	504.3	454.3	49.96	10.094	
7,000.0	6,966.5	7,005.6	6,966.5	25.9	25.6	131.16	382.0	166.9	512.1	461.5	50.68	10.105	
7,100.0	7,066.1	7,106.0	7,066.1	26.3	26.0	132.02	382.0	166.9	518.4	467.0	51.40	10.087	
7,200.0	7,165.8	7,206.2	7,165.8	26.7	26.3	132.63	382.0	166.9	523.1	471.0	52.11	10.038	
7,300.0	7,265.7	7,306.3	7,265.7	27.0	26.6	133.00	382.0	166.9	526.0	473.1	52.81	9.959	
7,400.0	7,365.7	7,406.4	7,365.7	27.4	27.0	133.14	382.0	166.9	527.1	473.6	53.51	9.850	
7,412.1	7,377.8	7,405.7	7,377.8	27.4	27.0	89.46	382.0	166.9	527.1	473.5	53.55	9.842	
7,500.0	7,465.7	7,506.4	7,465.7	27.7	27.3	89.46	382.0	166.9	527.1	472.9	54.21	9.724	
7,600.0	7,565.7	7,606.4	7,565.7	28.1	27.7	89.46	382.0	166.9	527.1	472.2	54.90	9.601	
7,702.3	7,668.0	7,704.1	7,668.0	28.4	28.0	89.46	382.0	166.9	527.1	471.5	55.60	9.481	
7,750.0	7,715.7	7,743.6	7,715.7	28.6	28.2	-92.15	382.0	166.9	527.1	471.3	55.89	9.432	
7,800.0	7,765.2	7,806.8	7,765.2	28.7	28.4	-92.80	382.0	166.9	527.4	471.2	56.25	9.376	
7,850.0	7,814.1	7,842.0	7,814.1	28.8	28.5	-93.86	382.0	166.9	528.1	471.5	56.51	9.345	
7,900.0	7,861.8	7,889.7	7,861.8	28.9	28.7	-95.27	382.0	166.9	529.3	472.5	56.80	9.319	
7,950.0	7,908.1	7,936.0	7,908.1	29.0	28.8	-96.94	382.0	166.9	531.5	474.4	57.07	9.313	
8,000.0	7,952.5	7,980.4	7,952.5	29.1	29.0	-98.76	382.0	166.9	535.0	477.7	57.32	9.333	
8,050.0	7,994.8	8,022.7	7,994.8	29.2	29.1	-100.61	382.0	166.9	540.3	482.7	57.56	9.387	
8,100.0	8,034.5	8,062.5	8,034.5	29.3	29.3	-102.38	382.0	166.9	547.8	490.1	57.77	9.482	
8,150.0	8,071.5	8,100.5	8,071.5	29.3	29.4	-103.93	382.0	166.9	558.0	500.0	57.97	9.625	
8,200.0	8,105.4	8,133.4	8,105.4	29.3	29.5	-105.15	382.0	166.9	571.2	513.0	58.14	9.823	
8,250.0	8,136.0	8,164.0	8,136.0	29.4	29.6	-105.91	382.0	166.9	587.6	529.3	58.29	10.079	
8,300.0	8,163.0	8,209.0	8,163.0	29.4	29.8	-106.12	382.0	166.9	607.4	548.9	58.49	10.385	
8,350.0	8,186.3	8,214.2	8,186.3	29.4	29.8	-105.67	382.0	166.9	630.6	572.0	58.53	10.774	
8,400.0	8,205.6	8,233.6	8,205.6	29.4	29.9	-104.45	382.0	166.9	657.0	598.4	58.61	11.210	
8,450.0	8,220.8	8,248.8	8,220.8	29.4	29.9	-102.38	382.0	166.9	686.6	627.9	58.67	11.702	
8,500.0	8,231.9	8,259.8	8,231.9	29.4	30.0	-99.36	382.0	166.9	718.8	660.1	58.70	12.245	
8,550.0	8,238.6	8,266.5	8,238.6	29.5	30.0	-95.32	382.0	166.9	753.4	694.7	58.72	12.831	
8,602.3	8,241.0	8,268.9	8,241.0	29.7	30.0	-90.00	382.0	166.9	791.5	732.8	58.71	13.483	
8,694.2	8,241.0	8,268.9	8,241.0	30.0	30.0	-90.00	382.0	166.9	861.4	802.8	58.68	14.681	
8,700.0	8,241.0	8,268.9	8,241.0	30.0	30.0	-90.00	382.0	166.9	865.9	807.2	58.68	14.757	
8,800.0	8,241.0	8,268.9	8,241.0	30.4	30.0	-90.00	382.0	166.9	945.5	886.9	58.66	16.118	
8,900.0	8,241.0	8,268.9	8,241.0	30.9	30.0	-90.00	382.0	166.9	1,028.7	970.1	58.66	17.537	
9,000.0	8,241.0	8,268.9	8,241.0	31.5	30.0	-90.00	382.0	166.9	1,114.7	1,056.0	58.67	19.000	

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 #102H
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 #102H	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 #136H - 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	
9,100.0	8,241.0	8,268.9	8,241.0	32.1	30.0	-90.00	382.0	166.9	1,202.8	1,144.2	58.68	20.499	
9,200.0	8,241.0	8,268.9	8,241.0	32.8	30.0	-90.00	382.0	166.9	1,292.7	1,234.0	58.69	22.025	
9,300.0	8,241.0	8,268.9	8,241.0	33.6	30.0	-90.00	382.0	166.9	1,384.0	1,325.2	58.71	23.574	
9,400.0	8,241.0	8,268.9	8,241.0	34.4	30.0	-90.00	382.0	166.9	1,476.3	1,417.6	58.72	25.140	
9,500.0	8,241.0	8,268.9	8,241.0	35.3	30.0	-90.00	382.0	166.9	1,569.7	1,510.9	58.74	26.721	
9,600.0	8,241.0	8,268.9	8,241.0	36.3	30.0	-90.00	382.0	166.9	1,663.8	1,605.0	58.76	28.313	
9,700.0	8,241.0	8,268.9	8,241.0	37.2	30.0	-90.00	382.0	166.9	1,758.5	1,699.7	58.78	29.915	
9,800.0	8,241.0	8,268.9	8,241.0	38.3	30.0	-90.00	382.0	166.9	1,853.8	1,795.0	58.80	31.525	
9,900.0	8,241.0	8,268.9	8,241.0	39.3	30.0	-90.00	382.0	166.9	1,949.6	1,890.8	58.83	33.142	
10,000.0	8,241.0	8,268.9	8,241.0	40.5	30.0	-90.00	382.0	166.9	2,045.8	1,986.9	58.85	34.763	
10,100.0	8,241.0	8,268.9	8,241.0	41.6	30.0	-90.00	382.0	166.9	2,142.3	2,083.4	58.87	36.389	
10,200.0	8,241.0	8,268.9	8,241.0	42.8	30.0	-90.00	382.0	166.9	2,239.1	2,180.2	58.90	38.019	
10,300.0	8,241.0	8,268.9	8,241.0	44.0	30.0	-90.00	382.0	166.9	2,336.2	2,277.3	58.92	39.651	
10,400.0	8,241.0	8,268.9	8,241.0	45.2	30.0	-90.00	382.0	166.9	2,433.6	2,374.6	58.95	41.285	
10,500.0	8,241.0	8,268.9	8,241.0	46.5	30.0	-90.00	382.0	166.9	2,531.1	2,472.1	58.97	42.921	
10,600.0	8,241.0	8,268.9	8,241.0	47.8	30.0	-90.00	382.0	166.9	2,628.8	2,569.8	59.00	44.558	
10,700.0	8,241.0	8,268.9	8,241.0	49.1	30.0	-90.00	382.0	166.9	2,726.7	2,667.7	59.02	46.196	
10,800.0	8,241.0	13,459.5	10,900.0	50.4	56.7	-166.29	-2,388.4	290.1	2,737.0	2,682.8	54.19	50.506	
10,900.0	8,241.0	13,559.5	10,900.0	51.7	58.0	-166.29	-2,488.4	290.9	2,737.0	2,681.4	55.65	49.183	
11,000.0	8,241.0	13,659.5	10,900.0	53.1	59.2	-166.29	-2,588.4	291.7	2,737.0	2,679.9	57.12	47.915	
11,100.0	8,241.0	13,759.5	10,900.0	54.5	60.4	-166.29	-2,688.4	292.4	2,737.0	2,678.4	58.61	46.701	
11,200.0	8,241.0	13,859.5	10,900.0	55.9	61.7	-166.29	-2,788.4	293.2	2,737.0	2,676.9	60.10	45.538	
11,300.0	8,241.0	13,959.5	10,900.0	57.3	63.0	-166.29	-2,888.4	294.0	2,737.0	2,675.4	61.61	44.423	
11,400.0	8,241.0	14,059.5	10,900.0	58.7	64.3	-166.29	-2,988.4	294.7	2,737.0	2,673.9	63.13	43.355	
11,500.0	8,241.0	14,159.5	10,900.0	60.1	65.6	-166.29	-3,088.3	295.5	2,737.0	2,672.4	64.66	42.330	
11,600.0	8,241.0	14,259.5	10,900.0	61.6	67.0	-166.29	-3,188.3	296.3	2,737.0	2,670.8	66.20	41.348	
11,700.0	8,241.0	14,359.5	10,900.0	63.0	68.3	-166.29	-3,288.3	297.0	2,737.0	2,669.3	67.74	40.404	
11,800.0	8,241.0	14,459.5	10,900.0	64.5	69.7	-166.29	-3,388.3	297.8	2,737.0	2,667.7	69.29	39.499	
11,900.0	8,241.0	14,559.5	10,900.0	66.0	71.1	-166.29	-3,488.3	298.6	2,737.0	2,666.2	70.85	38.629	
12,000.0	8,241.0	14,659.5	10,900.0	67.4	72.5	-166.29	-3,588.3	299.3	2,737.0	2,664.6	72.42	37.793	
12,100.0	8,241.0	14,759.5	10,900.0	68.9	73.9	-166.29	-3,688.3	300.1	2,737.0	2,663.0	74.00	36.989	
12,200.0	8,241.0	14,859.5	10,900.0	70.4	75.3	-166.29	-3,788.3	300.9	2,737.0	2,661.5	75.57	36.216	
12,300.0	8,241.0	14,959.5	10,900.0	71.9	76.7	-166.29	-3,888.3	301.6	2,737.0	2,659.9	77.16	35.472	
12,400.0	8,241.0	15,059.5	10,900.0	73.4	78.1	-166.29	-3,988.3	302.4	2,737.0	2,658.3	78.75	34.756	
12,500.0	8,241.0	15,159.5	10,900.0	74.9	79.6	-166.29	-4,088.3	303.2	2,737.0	2,656.7	80.35	34.065	
12,600.0	8,241.0	15,259.5	10,900.0	76.4	81.0	-166.29	-4,188.3	303.9	2,737.0	2,655.1	81.95	33.400	
12,700.0	8,241.0	15,359.5	10,900.0	78.0	82.5	-166.29	-4,288.3	304.7	2,737.0	2,653.5	83.55	32.759	
12,800.0	8,241.0	15,459.5	10,900.0	79.5	83.9	-166.29	-4,388.3	305.5	2,737.0	2,651.9	85.16	32.140	
12,900.0	8,241.0	15,559.5	10,900.0	81.0	85.4	-166.29	-4,488.3	306.2	2,737.0	2,650.3	86.77	31.542	
13,000.0	8,241.0	15,659.5	10,900.0	82.6	86.9	-166.29	-4,588.3	307.0	2,737.0	2,648.6	88.39	30.966	
13,100.0	8,241.0	15,759.5	10,900.0	84.1	88.3	-166.29	-4,688.3	307.8	2,737.0	2,647.0	90.01	30.408	
13,200.0	8,241.0	15,859.5	10,900.0	85.6	89.8	-166.29	-4,788.3	308.5	2,737.0	2,645.4	91.63	29.869	
13,300.0	8,241.0	15,959.5	10,900.0	87.2	91.3	-166.29	-4,888.3	309.3	2,737.0	2,643.8	93.26	29.348	
13,400.0	8,241.0	16,059.5	10,900.0	88.7	92.8	-166.29	-4,988.3	310.1	2,737.0	2,642.1	94.89	28.844	
13,500.0	8,241.0	16,159.5	10,900.0	90.3	94.3	-166.29	-5,088.3	310.8	2,737.0	2,640.5	96.52	28.356	
13,600.0	8,241.0	16,259.5	10,900.0	91.9	95.8	-166.29	-5,188.3	311.6	2,737.0	2,638.9	98.16	27.884	
13,700.0	8,241.0	16,359.5	10,900.0	93.4	97.3	-166.29	-5,288.3	312.4	2,737.0	2,637.2	99.80	27.426	
13,800.0	8,241.0	16,459.5	10,900.0	95.0	98.9	-166.29	-5,388.3	313.1	2,737.0	2,635.6	101.44	26.983	
13,900.0	8,241.0	16,559.5	10,900.0	96.6	100.4	-166.29	-5,488.3	313.9	2,737.0	2,634.0	103.08	26.553	
14,000.0	8,241.0	16,659.5	10,900.0	98.1	101.9	-166.29	-5,588.3	314.7	2,737.0	2,632.3	104.72	26.136	
14,100.0	8,241.0	16,759.5	10,900.0	99.7	103.4	-166.29	-5,688.3	315.4	2,737.0	2,630.7	106.37	25.731	
14,200.0	8,241.0	16,859.5	10,900.0	101.3	105.0	-166.29	-5,788.3	316.2	2,737.0	2,629.0	108.02	25.338	

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 #102H
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 #102H	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 #136H - 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	8,241.0	16,959.5	10,900.0	102.9	106.5	-166.29	-5,888.3	317.0	2,737.0	2,627.4	109.67	24.957	
14,400.0	8,241.0	17,059.5	10,900.0	104.4	108.0	-166.29	-5,988.3	317.7	2,737.0	2,625.7	111.32	24.586	
14,500.0	8,241.0	17,159.5	10,900.0	106.0	109.6	-166.29	-6,088.3	318.5	2,737.0	2,624.1	112.98	24.226	
14,600.0	8,241.0	17,259.5	10,900.0	107.6	111.1	-166.29	-6,188.3	319.3	2,737.0	2,622.4	114.64	23.876	
14,700.0	8,241.0	17,359.5	10,900.0	109.2	112.7	-166.29	-6,288.3	320.0	2,737.0	2,620.7	116.29	23.535	
14,800.0	8,241.0	17,459.5	10,900.0	110.8	114.2	-166.29	-6,388.3	320.8	2,737.0	2,619.1	117.95	23.204	
14,900.0	8,241.0	17,559.5	10,900.0	112.4	115.8	-166.29	-6,488.2	321.6	2,737.0	2,617.4	119.62	22.882	
15,000.0	8,241.0	17,659.5	10,900.0	114.0	117.3	-166.29	-6,588.2	322.3	2,737.0	2,615.8	121.28	22.568	
15,100.0	8,241.0	17,759.5	10,900.0	115.6	118.9	-166.29	-6,688.2	323.1	2,737.0	2,614.1	122.94	22.263	
15,200.0	8,241.0	17,859.5	10,900.0	117.1	120.5	-166.29	-6,788.2	323.9	2,737.0	2,612.4	124.61	21.965	
15,300.0	8,241.0	17,959.5	10,900.0	118.7	122.0	-166.29	-6,888.2	324.6	2,737.0	2,610.8	126.27	21.675	
15,400.0	8,241.0	18,059.5	10,900.0	120.3	123.6	-166.29	-6,988.2	325.4	2,737.0	2,609.1	127.94	21.393	
15,500.0	8,241.0	18,159.5	10,900.0	121.9	125.2	-166.29	-7,088.2	326.2	2,737.0	2,607.4	129.61	21.117	
15,600.0	8,241.0	18,259.5	10,900.0	123.5	126.7	-166.29	-7,188.2	326.9	2,737.0	2,605.8	131.28	20.849	
15,700.0	8,241.0	18,359.5	10,900.0	125.1	128.3	-166.29	-7,288.2	327.7	2,737.0	2,604.1	132.95	20.587	
15,800.0	8,241.0	18,459.5	10,900.0	126.7	129.9	-166.29	-7,388.2	328.5	2,737.0	2,602.4	134.63	20.331	
15,900.0	8,241.0	18,559.5	10,900.0	128.3	131.5	-166.29	-7,488.2	329.2	2,737.0	2,600.7	136.30	20.081	
16,000.0	8,241.0	18,659.5	10,900.0	129.9	133.1	-166.29	-7,588.2	330.0	2,737.0	2,599.1	137.97	19.837	
16,100.0	8,241.0	18,759.5	10,900.0	131.6	134.6	-166.28	-7,688.2	330.8	2,737.0	2,597.4	139.65	19.599	
16,200.0	8,241.0	18,859.5	10,900.0	133.2	136.2	-166.28	-7,788.2	331.6	2,737.0	2,595.7	141.32	19.367	
16,300.0	8,241.0	18,959.5	10,900.0	134.8	137.8	-166.28	-7,888.2	332.3	2,737.0	2,594.0	143.00	19.140	
16,400.0	8,241.0	19,059.5	10,900.0	136.4	139.4	-166.28	-7,988.2	333.1	2,737.0	2,592.4	144.68	18.918	
16,500.0	8,241.0	19,159.5	10,900.0	138.0	141.0	-166.28	-8,088.2	333.9	2,737.0	2,590.7	146.36	18.701	
16,600.0	8,241.0	19,259.5	10,900.0	139.6	142.6	-166.28	-8,188.2	334.6	2,737.0	2,589.0	148.04	18.489	
16,700.0	8,241.0	19,359.5	10,900.0	141.2	144.2	-166.28	-8,288.2	335.4	2,737.0	2,587.3	149.72	18.281	
16,800.0	8,241.0	19,459.5	10,900.0	142.8	145.7	-166.28	-8,388.2	336.2	2,737.0	2,585.6	151.40	18.078	
16,900.0	8,241.0	19,559.5	10,900.0	144.4	147.3	-166.28	-8,488.2	336.9	2,737.0	2,584.0	153.08	17.880	
17,000.0	8,241.0	19,659.5	10,900.0	146.1	148.9	-166.28	-8,588.2	337.7	2,737.0	2,582.3	154.76	17.685	
17,100.0	8,241.0	19,759.5	10,900.0	147.7	150.5	-166.28	-8,688.2	338.5	2,737.0	2,580.6	156.45	17.495	
17,200.0	8,241.0	19,859.5	10,900.0	149.3	152.1	-166.28	-8,788.2	339.2	2,737.0	2,578.9	158.13	17.309	
17,300.0	8,241.0	19,959.5	10,900.0	150.9	153.7	-166.28	-8,888.2	340.0	2,737.0	2,577.2	159.82	17.126	
17,400.0	8,241.0	20,059.5	10,900.0	152.5	155.3	-166.28	-8,988.2	340.8	2,737.0	2,575.5	161.50	16.948	
17,500.0	8,241.0	20,159.5	10,900.0	154.1	156.9	-166.28	-9,088.2	341.5	2,737.0	2,573.9	163.19	16.773	
17,600.0	8,241.0	20,259.5	10,900.0	155.8	158.5	-166.28	-9,188.2	342.3	2,737.0	2,572.2	164.87	16.601	
17,700.0	8,241.0	20,359.5	10,900.0	157.4	160.1	-166.28	-9,288.2	343.1	2,737.0	2,570.5	166.56	16.433	
17,800.0	8,241.0	20,459.5	10,900.0	159.0	161.7	-166.28	-9,388.2	343.8	2,737.0	2,568.8	168.25	16.268	
17,900.0	8,241.0	20,559.5	10,900.0	160.6	163.3	-166.28	-9,488.2	344.6	2,737.0	2,567.1	169.93	16.107	
18,000.0	8,241.0	20,659.5	10,900.0	162.2	164.9	-166.28	-9,588.2	345.4	2,737.0	2,565.4	171.62	15.948	
18,100.0	8,241.0	20,759.5	10,900.0	163.9	166.6	-166.28	-9,688.2	346.1	2,737.0	2,563.7	173.31	15.793	
18,200.0	8,241.0	20,859.5	10,900.0	165.5	168.2	-166.28	-9,788.2	346.9	2,737.0	2,562.0	175.00	15.640	
18,300.0	8,241.0	20,959.5	10,900.0	167.1	169.8	-166.28	-9,888.1	347.7	2,737.0	2,560.4	176.69	15.491	
18,400.0	8,241.0	21,059.5	10,900.0	168.7	171.4	-166.28	-9,988.1	348.4	2,737.0	2,558.7	178.38	15.344	
18,500.0	8,241.0	21,159.5	10,900.0	170.3	173.0	-166.28	-10,088.1	349.2	2,737.0	2,557.0	180.07	15.200	
18,541.8	8,241.0	21,201.3	10,900.0	171.0	173.7	-166.28	-10,129.9	349.5	2,737.0	2,556.3	180.78	15.140	
18,542.4	8,241.0	21,201.9	10,900.0	171.0	173.7	-166.28	-10,130.5	349.5	2,737.0	2,556.3	180.78	15.140	

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 #102H
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 #102H	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	63.03	30.4	59.8	67.1				
100.0	100.0	100.0	100.0	0.1	0.1	63.03	30.4	59.8	67.1	66.8	0.26	261.790	
200.0	200.0	200.0	200.0	0.5	0.5	63.03	30.4	59.8	67.1	66.1	0.97	68.943	
300.0	300.0	300.0	300.0	0.8	0.8	63.03	30.4	59.8	67.1	65.4	1.69	39.699	
400.0	400.0	400.0	400.0	1.2	1.2	63.03	30.4	59.8	67.1	64.7	2.41	27.875	
500.0	500.0	500.0	500.0	1.6	1.6	63.03	30.4	59.8	67.1	64.0	3.12	21.478	
600.0	600.0	600.0	600.0	1.9	1.9	63.03	30.4	59.8	67.1	63.3	3.84	17.469	
700.0	700.0	700.0	700.0	2.3	2.3	63.03	30.4	59.8	67.1	62.5	4.56	14.721	
800.0	800.0	800.0	800.0	2.6	2.6	63.03	30.4	59.8	67.1	61.8	5.27	12.720	
900.0	900.0	900.0	900.0	3.0	3.0	63.03	30.4	59.8	67.1	61.1	5.99	11.198	
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	63.03	30.4	59.8	67.1	60.4	6.71	10.002	
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	63.03	30.4	59.8	67.1	59.7	7.43	9.036	
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	63.03	30.4	59.8	67.1	59.0	8.14	8.240	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	63.03	30.4	59.8	67.1	58.2	8.86	7.574	
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	63.03	30.4	59.8	67.1	57.5	9.58	7.007	
1,416.3	1,416.3	1,416.3	1,416.3	4.8	4.8	63.03	30.4	59.8	67.1	57.4	9.69	6.922 CC	
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	63.03	30.4	59.8	67.1	56.8	10.29	6.519	
1,600.0	1,600.0	1,599.7	1,599.7	5.5	5.5	62.29	31.3	59.6	67.3	56.3	11.01	6.112	
1,700.0	1,700.0	1,699.4	1,699.4	5.9	5.9	60.13	33.8	58.9	67.9	56.2	11.72	5.794 ES	
1,800.0	1,800.0	1,799.0	1,799.0	6.2	6.2	56.65	38.0	57.8	69.2	56.7	12.44	5.562	
1,900.0	1,900.0	1,898.4	1,898.0	6.6	6.6	52.03	43.9	56.2	71.4	58.2	13.15	5.426	
2,000.0	2,000.0	1,997.5	1,996.9	6.9	6.9	46.55	51.4	54.2	74.8	60.9	13.86	5.395 SF	
2,100.0	2,100.0	2,096.4	2,095.3	7.3	7.3	40.57	60.5	51.8	79.8	65.2	14.57	5.479	
2,200.0	2,200.0	2,194.8	2,193.1	7.7	7.6	34.51	71.2	49.0	86.7	71.4	15.26	5.680	
2,300.0	2,300.0	2,305.2	2,290.3	8.0	8.1	28.69	83.5	45.7	95.7	79.7	16.00	5.981	
2,400.0	2,400.0	2,408.1	2,388.4	8.4	8.4	23.53	96.8	42.2	106.2	89.5	16.72	6.354	
2,500.0	2,500.0	2,509.1	2,486.4	8.7	8.8	19.33	110.1	38.6	117.5	100.1	17.43	6.740	
2,600.0	2,600.0	2,589.9	2,584.5	9.1	9.1	15.86	123.5	35.1	129.3	111.2	18.08	7.152	
2,700.0	2,700.0	2,689.0	2,682.6	9.4	9.5	12.99	136.8	31.5	141.4	122.7	18.79	7.529	
2,800.0	2,800.0	2,788.0	2,780.6	9.8	9.9	10.57	150.1	28.0	153.9	134.4	19.50	7.893	
2,900.0	2,900.0	2,887.0	2,878.7	10.2	10.3	8.52	163.4	24.5	166.6	146.4	20.21	8.242	
3,000.0	3,000.0	2,986.0	2,976.7	10.5	10.7	6.75	176.7	20.9	179.5	158.6	20.93	8.576	
3,100.0	3,100.0	3,085.2	3,074.9	10.9	11.1	49.01	190.1	17.4	191.9	170.3	21.64	8.869	
3,200.0	3,200.0	3,184.5	3,173.3	11.2	11.5	48.13	203.4	13.8	203.3	181.0	22.36	9.095	
3,300.0	3,299.9	3,283.9	3,271.8	11.6	11.9	47.68	216.8	10.3	213.6	190.5	23.07	9.256	
3,400.0	3,399.7	3,383.5	3,370.4	11.9	12.3	47.61	230.2	6.7	222.7	198.9	23.80	9.356	
3,500.0	3,499.4	3,483.2	3,469.1	12.3	12.7	47.87	243.6	3.2	230.6	206.0	24.52	9.402	
3,600.0	3,598.9	3,582.9	3,567.8	12.7	13.1	48.43	257.0	-0.4	237.3	212.1	25.25	9.398	
3,700.0	3,698.3	3,682.7	3,666.6	13.0	13.5	49.28	270.4	-4.0	243.0	217.0	25.99	9.349	
3,800.0	3,797.4	3,782.5	3,765.4	13.4	13.9	50.40	283.9	-7.5	247.6	220.8	26.73	9.261	
3,900.0	3,896.4	3,882.2	3,864.2	13.8	14.3	51.67	297.3	-11.1	251.7	224.2	27.48	9.159	
4,000.0	3,995.5	3,982.0	3,963.0	14.1	14.7	52.90	310.7	-14.7	256.0	227.8	28.23	9.067	
4,100.0	4,094.5	4,081.8	4,061.8	14.5	15.1	54.09	324.1	-18.2	260.4	231.4	28.99	8.981	
4,200.0	4,193.5	4,181.5	4,160.6	14.9	15.5	55.24	337.5	-21.8	264.9	235.1	29.75	8.903	
4,300.0	4,292.5	4,284.7	4,262.8	15.2	15.9	56.42	351.0	-25.4	269.1	238.6	30.55	8.808	
4,400.0	4,391.6	4,391.0	4,368.5	15.6	16.3	57.87	362.5	-28.4	271.4	240.0	31.39	8.647	
4,500.0	4,490.6	4,497.3	4,474.4	16.0	16.7	59.61	371.1	-30.7	271.4	239.2	32.20	8.429	
4,600.0	4,589.6	4,603.2	4,580.1	16.4	17.1	61.68	376.8	-32.2	269.3	236.3	32.99	8.162	
4,700.0	4,688.6	4,708.6	4,685.5	16.8	17.5	64.13	379.6	-33.0	265.2	231.5	33.77	7.855	
4,800.0	4,787.7	4,810.8	4,787.7	17.2	17.8	66.90	380.0	-33.1	259.7	225.2	34.53	7.521	
4,900.0	4,886.7	4,909.8	4,886.7	17.6	18.2	69.76	380.0	-33.1	254.5	219.2	35.31	7.210	
5,000.0	4,985.7	5,008.8	4,985.7	17.9	18.5	72.73	380.0	-33.1	250.0	214.0	36.08	6.930	

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 #102H
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 #102H	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	
5,100.0	5,084.8	5,107.9	5,084.8	18.3	18.8	75.79	380.0	-33.1	246.2	209.4	36.86	6.681	
5,200.0	5,183.8	5,206.9	5,183.8	18.7	19.2	78.95	380.0	-33.1	243.1	205.5	37.63	6.461	
5,300.0	5,282.8	5,305.9	5,282.8	19.1	19.5	82.17	380.0	-33.1	240.8	202.4	38.41	6.271	
5,400.0	5,381.8	5,405.0	5,381.8	19.5	19.8	85.44	380.0	-33.1	239.3	200.1	39.18	6.108	
5,500.0	5,480.9	5,504.0	5,480.9	19.9	20.2	88.74	380.0	-33.1	238.6	198.7	39.95	5.973	
5,538.2	5,518.6	5,541.8	5,518.6	20.1	20.3	90.00	380.0	-33.1	238.6	198.3	40.24	5.928	
5,600.0	5,579.9	5,603.0	5,579.9	20.3	20.5	92.05	380.0	-33.1	238.7	198.0	40.71	5.864	
5,700.0	5,678.9	5,702.0	5,678.9	20.7	20.9	95.34	380.0	-33.1	239.6	198.1	41.46	5.779	
5,800.0	5,777.9	5,801.1	5,777.9	21.1	21.2	98.60	380.0	-33.1	241.3	199.1	42.21	5.717	
5,900.0	5,877.0	5,900.1	5,877.0	21.5	21.5	101.81	380.0	-33.1	243.8	200.9	42.95	5.676	
6,000.0	5,976.0	6,000.9	5,976.0	21.9	21.9	104.94	380.0	-33.1	247.1	203.4	43.69	5.655	
6,100.0	6,075.0	6,101.9	6,075.0	22.3	22.2	107.98	380.0	-33.1	251.0	206.6	44.42	5.651	
6,200.0	6,174.0	6,202.8	6,174.0	22.7	22.6	110.93	380.0	-33.1	255.7	210.6	45.15	5.664	
6,300.0	6,273.1	6,303.8	6,273.1	23.1	22.9	113.76	380.0	-33.1	261.1	215.2	45.86	5.692	
6,400.0	6,372.1	6,404.8	6,372.1	23.5	23.3	116.47	380.0	-33.1	267.0	220.4	46.57	5.733	
6,500.0	6,471.1	6,505.7	6,471.1	23.9	23.6	119.06	380.0	-33.1	273.5	226.3	47.28	5.785	
6,600.0	6,570.2	6,606.7	6,570.2	24.3	24.0	121.53	380.0	-33.1	280.6	232.6	47.99	5.848	
6,700.0	6,669.2	6,707.7	6,669.2	24.7	24.3	123.87	380.0	-33.1	288.2	239.5	48.69	5.919	
6,800.0	6,768.2	6,808.7	6,768.2	25.1	24.7	126.09	380.0	-33.1	296.2	246.8	49.38	5.998	
6,878.7	6,846.2	6,869.3	6,846.2	25.4	24.9	127.76	380.0	-33.1	302.8	253.0	49.87	6.073	
6,900.0	6,867.2	6,909.6	6,867.2	25.5	25.0	128.21	380.0	-33.1	304.6	254.6	50.08	6.083	
7,000.0	6,966.5	6,989.6	6,966.5	25.9	25.3	130.03	380.0	-33.1	312.3	261.6	50.70	6.159	
7,100.0	7,066.1	7,089.2	7,066.1	26.3	25.7	131.40	380.0	-33.1	318.5	267.1	51.39	6.197	
7,200.0	7,165.8	7,188.9	7,165.8	26.7	26.0	132.36	380.0	-33.1	323.1	271.0	52.09	6.203	
7,300.0	7,265.7	7,288.8	7,265.7	27.0	26.4	132.94	380.0	-33.1	325.9	273.2	52.78	6.175	
7,400.0	7,365.7	7,388.8	7,365.7	27.4	26.7	133.16	380.0	-33.1	327.0	273.6	53.48	6.116	
7,412.1	7,377.8	7,400.9	7,377.8	27.4	26.8	89.48	380.0	-33.1	327.1	273.5	53.56	6.107	
7,500.0	7,465.7	7,488.8	7,465.7	27.7	27.1	89.48	380.0	-33.1	327.1	272.9	54.17	6.038	
7,600.0	7,565.7	7,588.8	7,565.7	28.1	27.4	89.48	380.0	-33.1	327.1	272.2	54.87	5.961	
7,702.3	7,668.0	7,708.9	7,668.0	28.4	27.8	89.48	380.0	-33.1	327.1	271.4	55.64	5.878	
7,750.0	7,715.7	7,738.8	7,715.7	28.6	27.9	-92.26	380.0	-33.1	327.1	271.2	55.91	5.851	
7,800.0	7,765.2	7,788.4	7,765.2	28.7	28.1	-93.32	380.0	-33.1	327.4	271.2	56.25	5.822	
7,850.0	7,814.1	7,837.2	7,814.1	28.8	28.3	-95.05	380.0	-33.1	328.2	271.7	56.58	5.801	
7,900.0	7,861.8	7,884.9	7,861.8	28.9	28.5	-97.34	380.0	-33.1	329.9	273.0	56.92	5.797	
7,950.0	7,908.1	7,931.2	7,908.1	29.0	28.6	-100.03	380.0	-33.1	333.0	275.8	57.24	5.818	
8,000.0	7,952.5	7,975.6	7,952.5	29.1	28.8	-102.95	380.0	-33.1	338.1	280.6	57.55	5.876	
8,050.0	7,994.8	8,017.9	7,994.8	29.2	28.9	-105.89	380.0	-33.1	345.9	288.1	57.83	5.982	
8,100.0	8,034.5	8,057.7	8,034.5	29.3	29.1	-108.65	380.0	-33.1	357.0	298.9	58.09	6.145	
8,150.0	8,071.5	8,105.4	8,071.5	29.3	29.2	-111.04	380.0	-33.1	371.8	313.4	58.36	6.371	
8,200.0	8,105.4	8,128.6	8,105.4	29.3	29.3	-112.91	380.0	-33.1	390.6	332.1	58.51	6.676	
8,250.0	8,136.0	8,159.1	8,136.0	29.4	29.4	-114.09	380.0	-33.1	413.6	354.9	58.67	7.049	
8,300.0	8,163.0	8,186.2	8,163.0	29.4	29.5	-114.47	380.0	-33.1	440.6	381.8	58.79	7.495	
8,350.0	8,186.3	8,209.4	8,186.3	29.4	29.6	-113.89	380.0	-33.1	471.4	412.5	58.88	8.007	
8,400.0	8,205.6	8,228.7	8,205.6	29.4	29.7	-112.20	380.0	-33.1	505.6	446.7	58.94	8.580	
8,450.0	8,220.8	8,244.0	8,220.8	29.4	29.7	-109.20	380.0	-33.1	542.8	483.9	58.97	9.206	
8,500.0	8,231.9	8,255.0	8,231.9	29.4	29.8	-104.68	380.0	-33.1	582.5	523.5	58.97	9.878	
8,550.0	8,238.6	8,261.7	8,238.6	29.5	29.8	-98.43	380.0	-33.1	624.1	565.2	58.96	10.586	
8,602.3	8,241.0	8,264.1	8,241.0	29.7	29.8	-90.00	380.0	-33.1	669.2	610.2	58.92	11.357	
8,694.2	8,241.0	8,264.1	8,241.0	30.0	29.8	-90.00	380.0	-33.1	750.1	691.2	58.85	12.745	
8,700.0	8,241.0	8,264.1	8,241.0	30.0	29.8	-90.00	380.0	-33.1	755.2	696.4	58.85	12.833	
8,800.0	8,241.0	8,264.1	8,241.0	30.4	29.8	-90.00	380.0	-33.1	845.3	786.5	58.79	14.378	
8,900.0	8,241.0	8,264.1	8,241.0	30.9	29.8	-90.00	380.0	-33.1	937.4	878.6	58.75	15.956	

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 #102H
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 #102H	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	
9,000.0	8,241.0	8,264.1	8,241.0	31.5	29.8	-90.00	380.0	-33.1	1,030.9	972.2	58.71	17.559	
9,100.0	8,241.0	8,264.1	8,241.0	32.1	29.8	-90.00	380.0	-33.1	1,125.6	1,066.9	58.69	19.180	
9,200.0	8,241.0	8,264.1	8,241.0	32.8	29.8	-90.00	380.0	-33.1	1,221.1	1,162.5	58.67	20.814	
9,300.0	8,241.0	8,264.1	8,241.0	33.6	29.8	-90.00	380.0	-33.1	1,317.3	1,258.7	58.66	22.458	
9,400.0	8,241.0	8,264.1	8,241.0	34.4	29.8	-90.00	380.0	-33.1	1,414.0	1,355.4	58.65	24.110	
9,500.0	8,241.0	8,264.1	8,241.0	35.3	29.8	-90.00	380.0	-33.1	1,511.2	1,452.5	58.64	25.768	
9,600.0	8,241.0	8,264.1	8,241.0	36.3	29.8	-90.00	380.0	-33.1	1,608.7	1,550.0	58.64	27.431	
9,700.0	8,241.0	8,264.1	8,241.0	37.2	29.8	-90.00	380.0	-33.1	1,706.4	1,647.8	58.64	29.098	
9,800.0	8,241.0	8,264.1	8,241.0	38.3	29.8	-90.00	380.0	-33.1	1,804.5	1,745.8	58.65	30.768	
9,900.0	8,241.0	8,264.1	8,241.0	39.3	29.8	-90.00	380.0	-33.1	1,902.7	1,844.0	58.65	32.439	
10,000.0	8,241.0	8,264.1	8,241.0	40.5	29.8	-90.00	380.0	-33.1	2,001.1	1,942.4	58.66	34.112	
10,100.0	8,241.0	8,264.1	8,241.0	41.6	29.8	-90.00	380.0	-33.1	2,099.7	2,041.0	58.67	35.787	
10,200.0	8,241.0	8,264.1	8,241.0	42.8	29.8	-90.00	380.0	-33.1	2,198.4	2,139.7	58.68	37.461	
10,300.0	8,241.0	8,264.1	8,241.0	44.0	29.8	-90.00	380.0	-33.1	2,297.2	2,238.5	58.70	39.136	
10,400.0	8,241.0	8,264.1	8,241.0	45.2	29.8	-90.00	380.0	-33.1	2,396.1	2,337.3	58.71	40.811	
10,500.0	8,241.0	8,264.1	8,241.0	46.5	29.8	-90.00	380.0	-33.1	2,495.0	2,436.3	58.73	42.485	
10,600.0	8,241.0	8,264.1	8,241.0	47.8	29.8	-90.00	380.0	-33.1	2,594.1	2,535.4	58.74	44.159	
10,700.0	8,241.0	8,264.1	8,241.0	49.1	29.8	-90.00	380.0	-33.1	2,693.2	2,634.5	58.76	45.832	
10,800.0	8,241.0	8,264.1	8,241.0	50.4	29.8	-90.00	380.0	-33.1	2,792.4	2,733.7	58.78	47.504	
10,900.0	8,241.0	8,264.1	8,241.0	51.7	29.8	-90.00	380.0	-33.1	2,891.7	2,832.9	58.80	49.175	
11,000.0	8,241.0	8,264.1	8,241.0	53.1	29.8	-90.00	380.0	-33.1	2,991.0	2,932.2	58.83	50.844	
11,100.0	8,241.0	8,264.1	8,241.0	54.5	29.8	-90.00	380.0	-33.1	3,090.3	3,031.5	58.85	52.512	
11,200.0	8,241.0	8,264.1	8,241.0	55.9	29.8	-90.00	380.0	-33.1	3,189.7	3,130.9	58.87	54.178	
11,300.0	8,241.0	8,264.1	8,241.0	57.3	29.8	-90.00	380.0	-33.1	3,289.2	3,230.3	58.90	55.842	
11,400.0	8,241.0	8,264.1	8,241.0	58.7	29.8	-90.00	380.0	-33.1	3,388.6	3,329.7	58.93	57.505	
11,500.0	8,241.0	8,264.1	8,241.0	60.1	29.8	-90.00	380.0	-33.1	3,488.1	3,429.1	58.96	59.165	
11,600.0	8,241.0	8,264.1	8,241.0	61.6	29.8	-90.00	380.0	-33.1	3,587.6	3,528.6	58.98	60.823	
11,700.0	8,241.0	8,264.1	8,241.0	63.0	29.8	-90.00	380.0	-33.1	3,687.2	3,628.1	59.01	62.479	
11,800.0	8,241.0	8,264.1	8,241.0	64.5	29.8	-90.00	380.0	-33.1	3,786.7	3,727.7	59.05	64.132	
11,900.0	8,241.0	8,264.1	8,241.0	66.0	29.8	-90.00	380.0	-33.1	3,886.3	3,827.2	59.08	65.783	
12,000.0	8,241.0	8,264.1	8,241.0	67.4	29.8	-90.00	380.0	-33.1	3,985.9	3,926.8	59.11	67.431	
12,100.0	8,241.0	8,264.1	8,241.0	68.9	29.8	-90.00	380.0	-33.1	4,085.6	4,026.4	59.15	69.077	
12,200.0	8,241.0	8,264.1	8,241.0	70.4	29.8	-90.00	380.0	-33.1	4,185.2	4,126.0	59.18	70.720	
12,300.0	8,241.0	8,264.1	8,241.0	71.9	29.8	-90.00	380.0	-33.1	4,284.9	4,225.7	59.22	72.360	
12,400.0	8,241.0	8,264.1	8,241.0	73.4	29.8	-90.00	380.0	-33.1	4,384.6	4,325.3	59.25	73.996	
12,500.0	8,241.0	8,264.1	8,241.0	74.9	29.8	-90.00	380.0	-33.1	4,484.2	4,425.0	59.29	75.630	
12,600.0	8,241.0	8,264.1	8,241.0	76.4	29.8	-90.00	380.0	-33.1	4,584.0	4,524.6	59.33	77.261	
12,700.0	8,241.0	8,264.1	8,241.0	78.0	29.8	-90.00	380.0	-33.1	4,683.7	4,624.3	59.37	78.889	
12,800.0	8,241.0	8,264.1	8,241.0	79.5	29.8	-90.00	380.0	-33.1	4,783.4	4,724.0	59.41	80.513	
12,900.0	8,241.0	8,264.1	8,241.0	81.0	29.8	-90.00	380.0	-33.1	4,883.1	4,823.7	59.45	82.134	
13,000.0	8,241.0	8,264.1	8,241.0	82.6	29.8	-90.00	380.0	-33.1	4,982.9	4,923.4	59.50	83.752	
13,100.0	8,241.0	8,264.1	8,241.0	84.1	29.8	-90.00	380.0	-33.1	5,082.7	5,023.1	59.54	85.366	
13,200.0	8,241.0	8,264.1	8,241.0	85.6	29.8	-90.00	380.0	-33.1	5,182.4	5,122.8	59.58	86.977	
13,300.0	8,241.0	8,264.1	8,241.0	87.2	29.8	-90.00	380.0	-33.1	5,282.2	5,222.6	59.63	88.584	
13,400.0	8,241.0	8,264.1	8,241.0	88.7	29.8	-90.00	380.0	-33.1	5,382.0	5,322.3	59.68	90.187	
13,500.0	8,241.0	8,264.1	8,241.0	90.3	29.8	-90.00	380.0	-33.1	5,481.8	5,422.1	59.72	91.787	
13,600.0	8,241.0	19,080.6	13,732.0	91.9	99.9	-176.68	-5,190.8	-19.1	5,500.2	5,405.7	94.55	58.172	
13,700.0	8,241.0	19,180.6	13,732.0	93.4	101.4	-176.68	-5,290.8	-18.3	5,500.2	5,404.2	96.01	57.288	
13,800.0	8,241.0	19,280.6	13,732.0	95.0	102.8	-176.68	-5,390.8	-17.5	5,500.2	5,402.7	97.47	56.428	
13,900.0	8,241.0	19,380.6	13,732.0	96.6	104.3	-176.68	-5,490.8	-16.7	5,500.2	5,401.3	98.94	55.591	
14,000.0	8,241.0	19,480.6	13,732.0	98.1	105.7	-176.68	-5,590.8	-15.9	5,500.2	5,399.8	100.41	54.777	
14,100.0	8,241.0	19,580.6	13,732.0	99.7	107.2	-176.68	-5,690.7	-15.1	5,500.2	5,398.3	101.88	53.985	

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 #102H
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 #102H	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	
14,200.0	8,241.0	19,680.6	13,732.0	101.3	108.7	-176.68	-5,790.7	-14.4	5,500.2	5,396.9	103.36	53.214	
14,300.0	8,241.0	19,780.6	13,732.0	102.9	110.2	-176.68	-5,890.7	-13.6	5,500.2	5,395.4	104.84	52.464	
14,400.0	8,241.0	19,880.6	13,732.0	104.4	111.6	-176.68	-5,990.7	-12.8	5,500.2	5,393.9	106.32	51.732	
14,500.0	8,241.0	19,980.6	13,732.0	106.0	113.1	-176.68	-6,090.7	-12.0	5,500.2	5,392.4	107.80	51.020	
14,600.0	8,241.0	20,080.6	13,732.0	107.6	114.6	-176.68	-6,190.7	-11.2	5,500.2	5,390.9	109.29	50.326	
14,700.0	8,241.0	20,180.6	13,732.0	109.2	116.1	-176.68	-6,290.7	-10.5	5,500.2	5,389.4	110.78	49.650	
14,800.0	8,241.0	20,280.6	13,732.0	110.8	117.6	-176.68	-6,390.7	-9.7	5,500.2	5,388.0	112.27	48.990	
14,900.0	8,241.0	20,380.6	13,732.0	112.4	119.1	-176.68	-6,490.7	-8.9	5,500.2	5,386.5	113.77	48.347	
15,000.0	8,241.0	20,480.6	13,732.0	114.0	120.6	-176.68	-6,590.7	-8.1	5,500.2	5,385.0	115.26	47.719	
15,100.0	8,241.0	20,580.6	13,732.0	115.6	122.1	-176.68	-6,690.7	-7.3	5,500.2	5,383.5	116.76	47.107	
15,200.0	8,241.0	20,680.6	13,732.0	117.1	123.7	-176.68	-6,790.7	-6.5	5,500.2	5,382.0	118.26	46.510	
15,300.0	8,241.0	20,780.6	13,732.0	118.7	125.2	-176.68	-6,890.7	-5.8	5,500.2	5,380.5	119.76	45.926	
15,400.0	8,241.0	20,880.6	13,732.0	120.3	126.7	-176.68	-6,990.7	-5.0	5,500.2	5,379.0	121.27	45.357	
15,500.0	8,241.0	20,980.6	13,732.0	121.9	128.2	-176.68	-7,090.7	-4.2	5,500.2	5,377.5	122.77	44.800	
15,600.0	8,241.0	21,080.6	13,732.0	123.5	129.8	-176.68	-7,190.7	-3.4	5,500.2	5,376.0	124.28	44.257	
15,700.0	8,241.0	21,180.6	13,732.0	125.1	131.3	-176.68	-7,290.7	-2.6	5,500.2	5,374.4	125.79	43.726	
15,800.0	8,241.0	21,280.6	13,732.0	126.7	132.8	-176.68	-7,390.7	-1.9	5,500.2	5,372.9	127.30	43.207	
15,900.0	8,241.0	21,380.6	13,732.0	128.3	134.4	-176.68	-7,490.7	-1.1	5,500.2	5,371.4	128.81	42.700	
16,000.0	8,241.0	21,480.6	13,732.0	129.9	135.9	-176.68	-7,590.7	-0.3	5,500.2	5,369.9	130.32	42.204	
16,100.0	8,241.0	21,580.6	13,732.0	131.6	137.5	-176.68	-7,690.7	0.5	5,500.2	5,368.4	131.84	41.719	
16,200.0	8,241.0	21,680.6	13,732.0	133.2	139.0	-176.68	-7,790.7	1.3	5,500.2	5,366.9	133.36	41.245	
16,300.0	8,241.0	21,780.6	13,732.0	134.8	140.6	-176.68	-7,890.7	2.1	5,500.2	5,365.4	134.87	40.780	
16,400.0	8,241.0	21,880.6	13,732.0	136.4	142.1	-176.68	-7,990.7	2.8	5,500.2	5,363.8	136.39	40.326	
16,500.0	8,241.0	21,980.6	13,732.0	138.0	143.7	-176.68	-8,090.7	3.6	5,500.2	5,362.3	137.91	39.881	
16,600.0	8,241.0	22,080.6	13,732.0	139.6	145.2	-176.68	-8,190.7	4.4	5,500.2	5,360.8	139.44	39.446	
16,700.0	8,241.0	22,180.6	13,732.0	141.2	146.8	-176.68	-8,290.7	5.2	5,500.2	5,359.3	140.96	39.020	
16,800.0	8,241.0	22,280.6	13,732.0	142.8	148.3	-176.68	-8,390.7	6.0	5,500.2	5,357.8	142.48	38.602	
16,900.0	8,241.0	22,380.6	13,732.0	144.4	149.9	-176.68	-8,490.7	6.7	5,500.2	5,356.2	144.01	38.194	
17,000.0	8,241.0	22,480.6	13,732.0	146.1	151.5	-176.68	-8,590.7	7.5	5,500.2	5,354.7	145.54	37.793	
17,100.0	8,241.0	22,580.6	13,732.0	147.7	153.0	-176.68	-8,690.7	8.3	5,500.2	5,353.2	147.06	37.400	
17,200.0	8,241.0	22,680.6	13,732.0	149.3	154.6	-176.68	-8,790.7	9.1	5,500.2	5,351.7	148.59	37.016	
17,300.0	8,241.0	22,780.6	13,732.0	150.9	156.2	-176.68	-8,890.7	9.9	5,500.2	5,350.1	150.12	36.639	
17,400.0	8,241.0	22,880.6	13,732.0	152.5	157.7	-176.68	-8,990.6	10.7	5,500.2	5,348.6	151.65	36.269	
17,500.0	8,241.0	22,980.6	13,732.0	154.1	159.3	-176.68	-9,090.6	11.4	5,500.2	5,347.1	153.18	35.906	
17,600.0	8,241.0	23,080.6	13,732.0	155.8	160.9	-176.68	-9,190.6	12.2	5,500.3	5,345.5	154.72	35.550	
17,700.0	8,241.0	23,180.6	13,732.0	157.4	162.5	-176.68	-9,290.6	13.0	5,500.3	5,344.0	156.25	35.202	
17,800.0	8,241.0	23,280.6	13,732.0	159.0	164.0	-176.68	-9,390.6	13.8	5,500.3	5,342.5	157.78	34.859	
17,900.0	8,241.0	23,380.6	13,732.0	160.6	165.6	-176.68	-9,490.6	14.6	5,500.3	5,340.9	159.32	34.523	
18,000.0	8,241.0	23,480.6	13,732.0	162.2	167.2	-176.68	-9,590.6	15.3	5,500.3	5,339.4	160.86	34.194	
18,100.0	8,241.0	23,580.6	13,732.0	163.9	168.8	-176.68	-9,690.6	16.1	5,500.3	5,337.9	162.39	33.870	
18,200.0	8,241.0	23,680.6	13,732.0	165.5	170.4	-176.68	-9,790.6	16.9	5,500.3	5,336.3	163.93	33.553	
18,300.0	8,241.0	23,780.6	13,732.0	167.1	171.9	-176.68	-9,890.6	17.7	5,500.3	5,334.8	165.47	33.241	
18,400.0	8,241.0	23,880.6	13,732.0	168.7	173.4	-176.68	-9,990.6	18.5	5,500.3	5,333.6	166.71	32.994	
18,500.0	8,241.0	23,881.2	13,732.0	170.3	173.4	-176.68	-9,991.2	18.5	5,501.2	5,333.8	167.33	32.876	
18,541.8	8,241.0	23,881.2	13,732.0	171.0	173.4	-176.68	-9,991.2	18.5	5,502.1	5,334.5	167.58	32.832	
18,542.4	8,241.0	23,881.2	13,732.0	171.0	173.4	-176.68	-9,991.2	18.5	5,502.1	5,334.5	167.61	32.826	

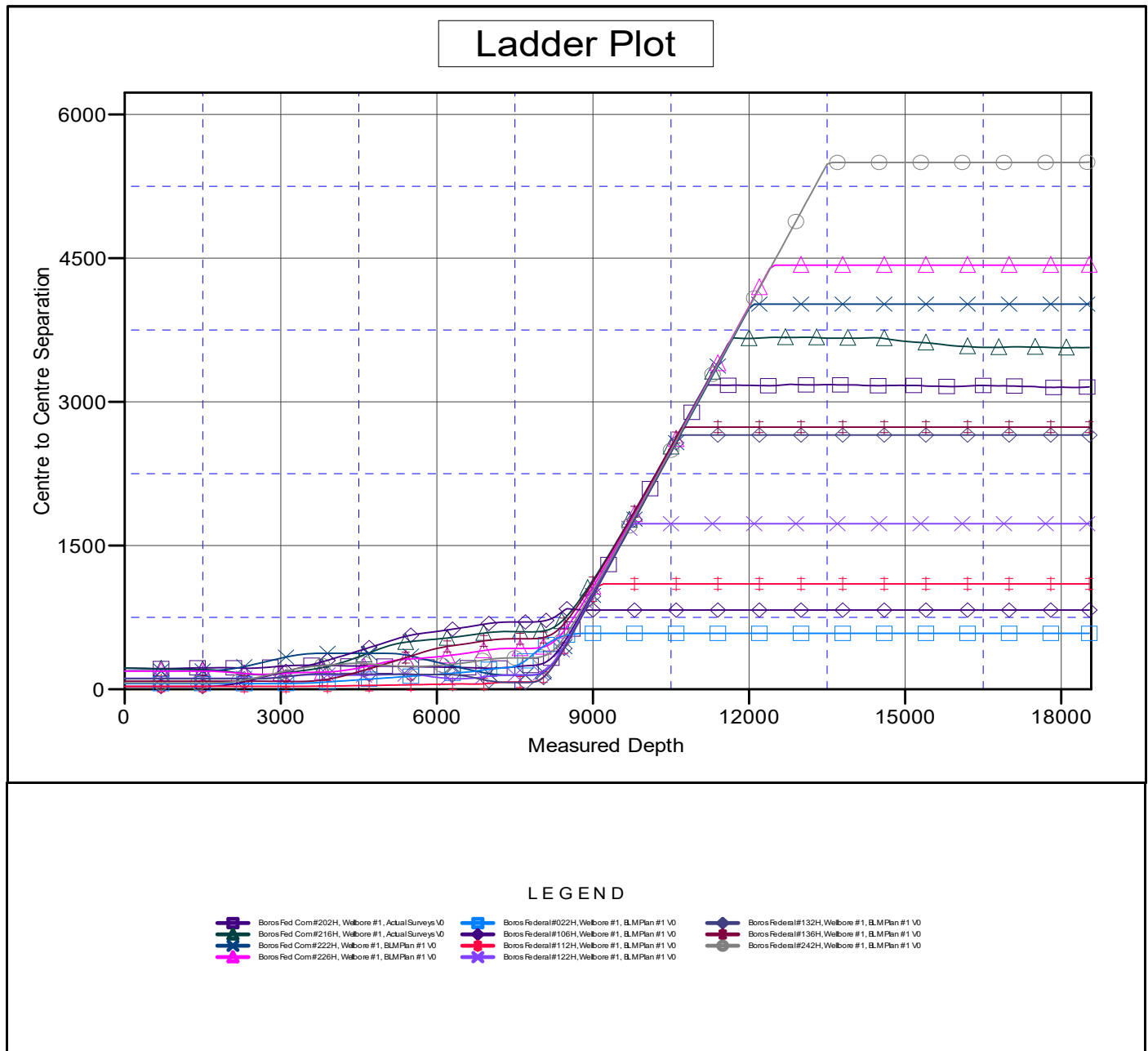
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Boros Federal #102H
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 #102H	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 #102H
 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 #102H
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 #102H	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

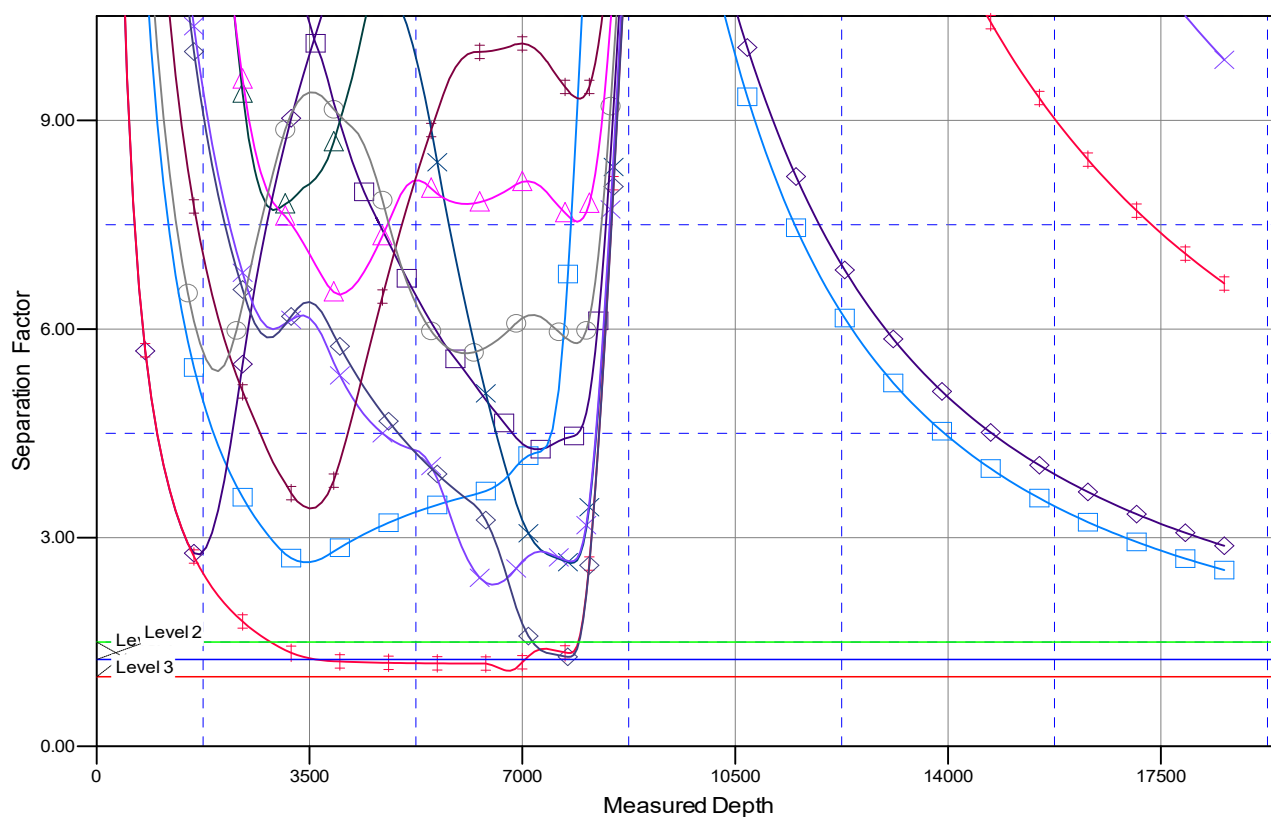
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Boros Federal #102H

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 #202H, Wellbore #1, BLM Plan #1 V0	Boros Federal #132H, Wellbore #1, BLM Plan #1 V0
Boros Fed Com #216H, Wellbore #1, Actual Surveys V0	Boros Federal #106H, Wellbore #1, BLM Plan #1 V0	Boros Federal #136H, Wellbore #1, BLM Plan #1 V0
Boros Fed Com #222H, Wellbore #1, BLM Plan #1 V0	Boros Federal #112H, 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 #122H, Wellbore #1, BLM Plan #1 V0	

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



SURVEY PROGRAM

WELL DETAILS: Boros Federal #102H

Depth From	Depth To	Survey/Plan	Tool				GL @ 3227.0	KB @ 3255.5usft			
0.0	18541.5	BLM Plan #1 (Wellbore #1)	MWD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
				0.0	0.0	381946.98	675283.08	32° 2' 55.769 N	103° 46' 3.354 W		

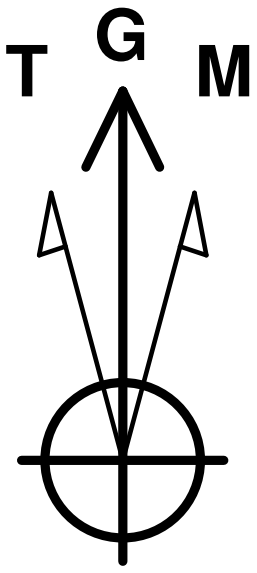
Company: Matador Production Company
Well: Boros Federal #102H
County: Eddy County, New Mexico
Wellbore: Wellbore #1
Plan: BLM Plan #1
Date: 9/9/2020

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
VP - Boros Federal #102H	7668.0	377.1	-360.1	382324.00	674923.00	32° 2' 59.519 N	103° 46' 7.515 W
BHL - Boros Federal #102H	8241.0	-10134.9	-299.4	371812.14	674983.67	32° 1' 15.488 N	103° 46' 7.449 W

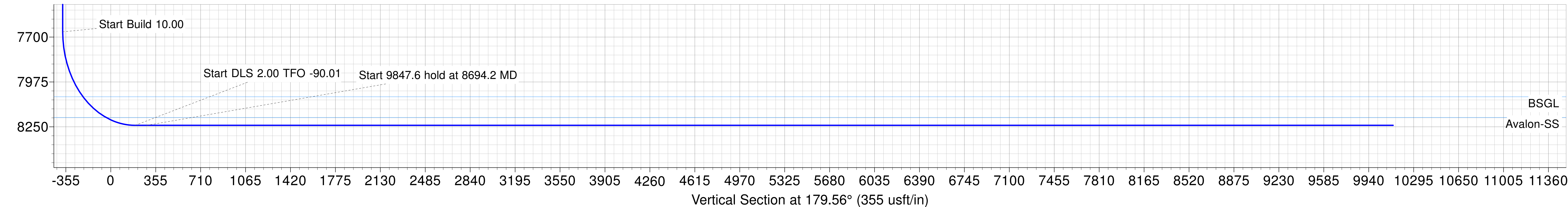
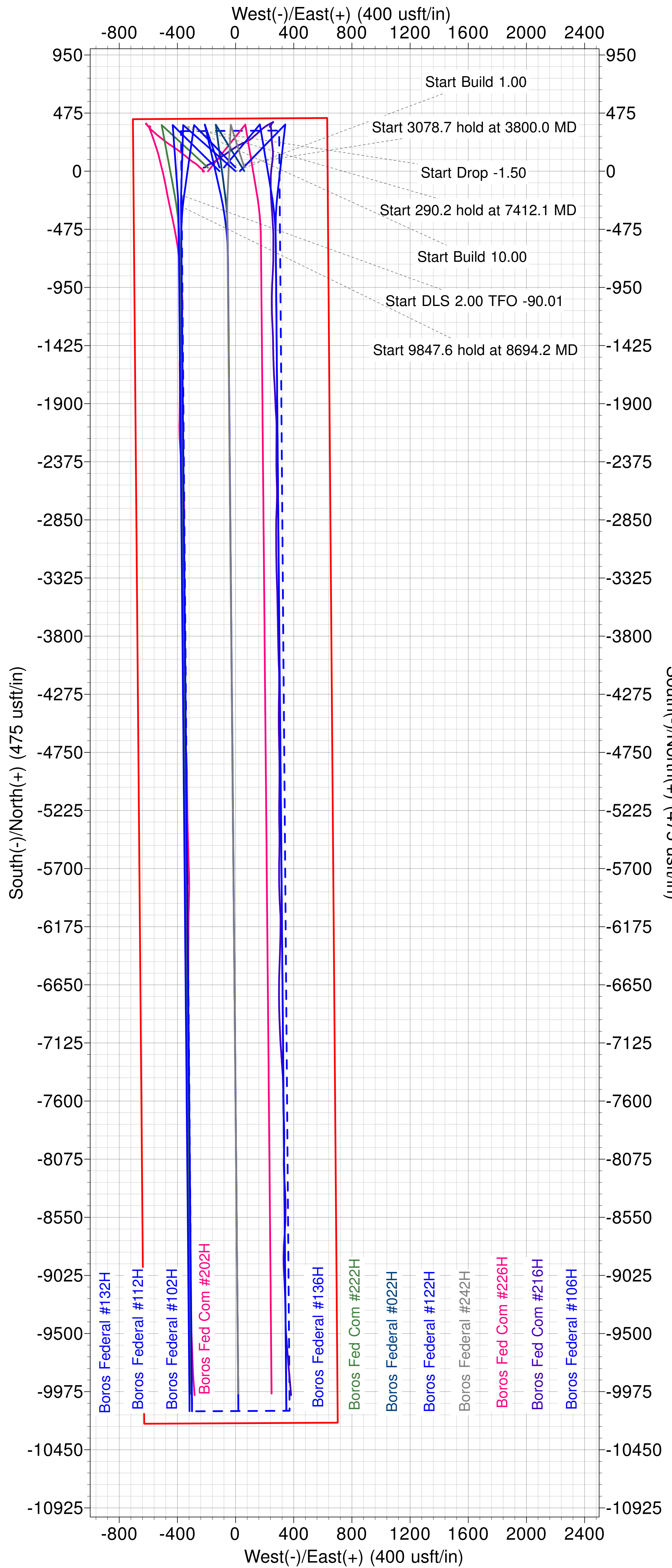
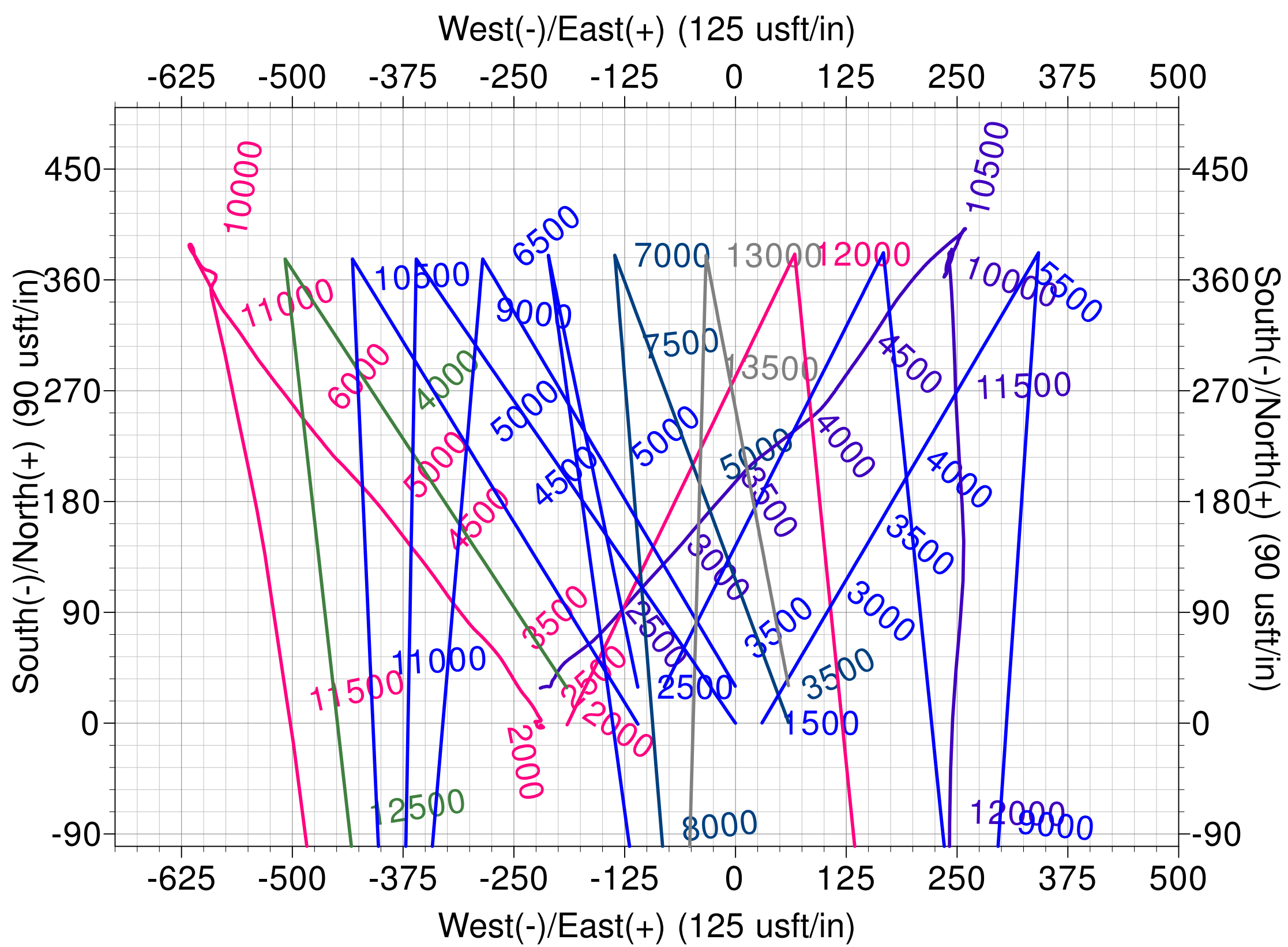
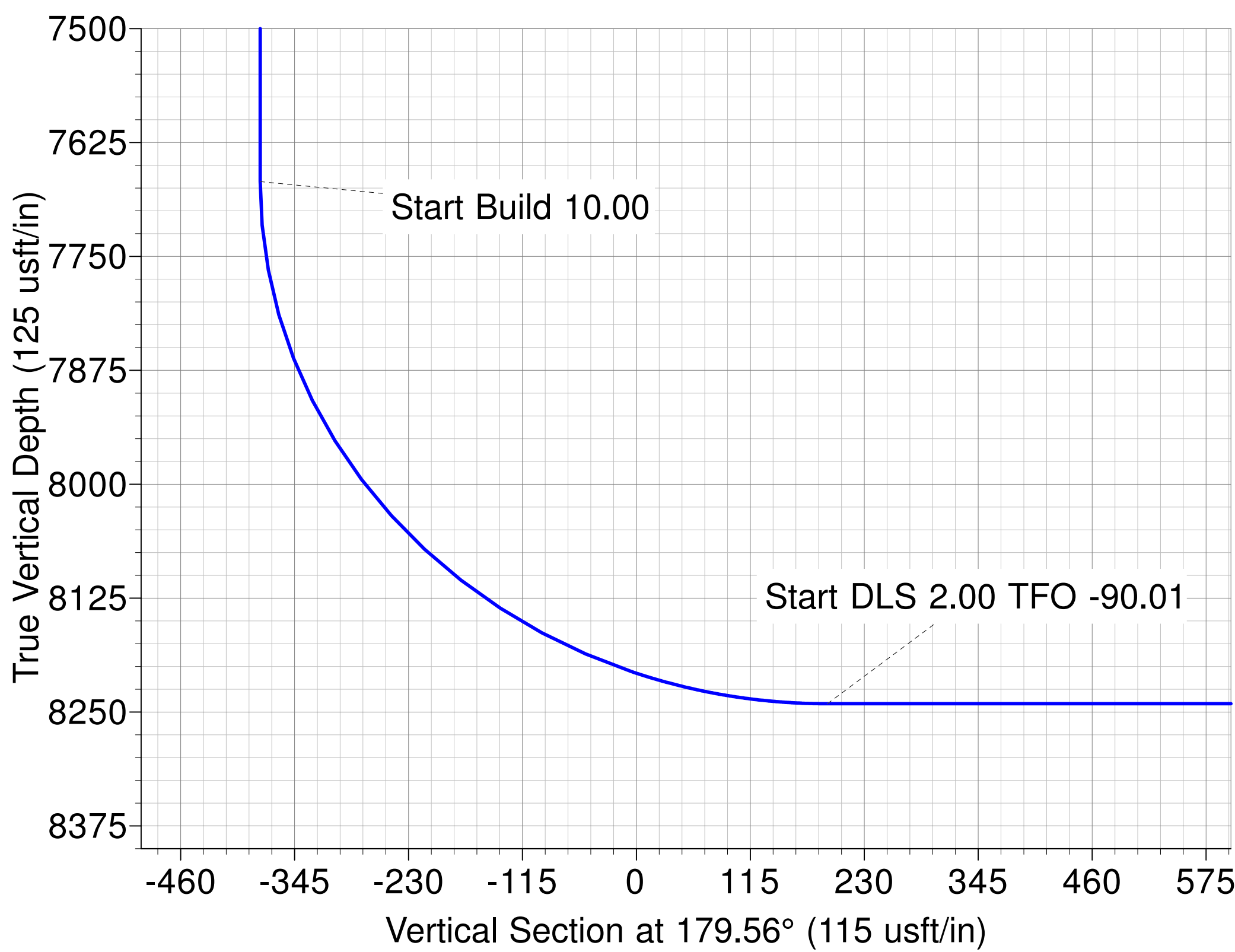
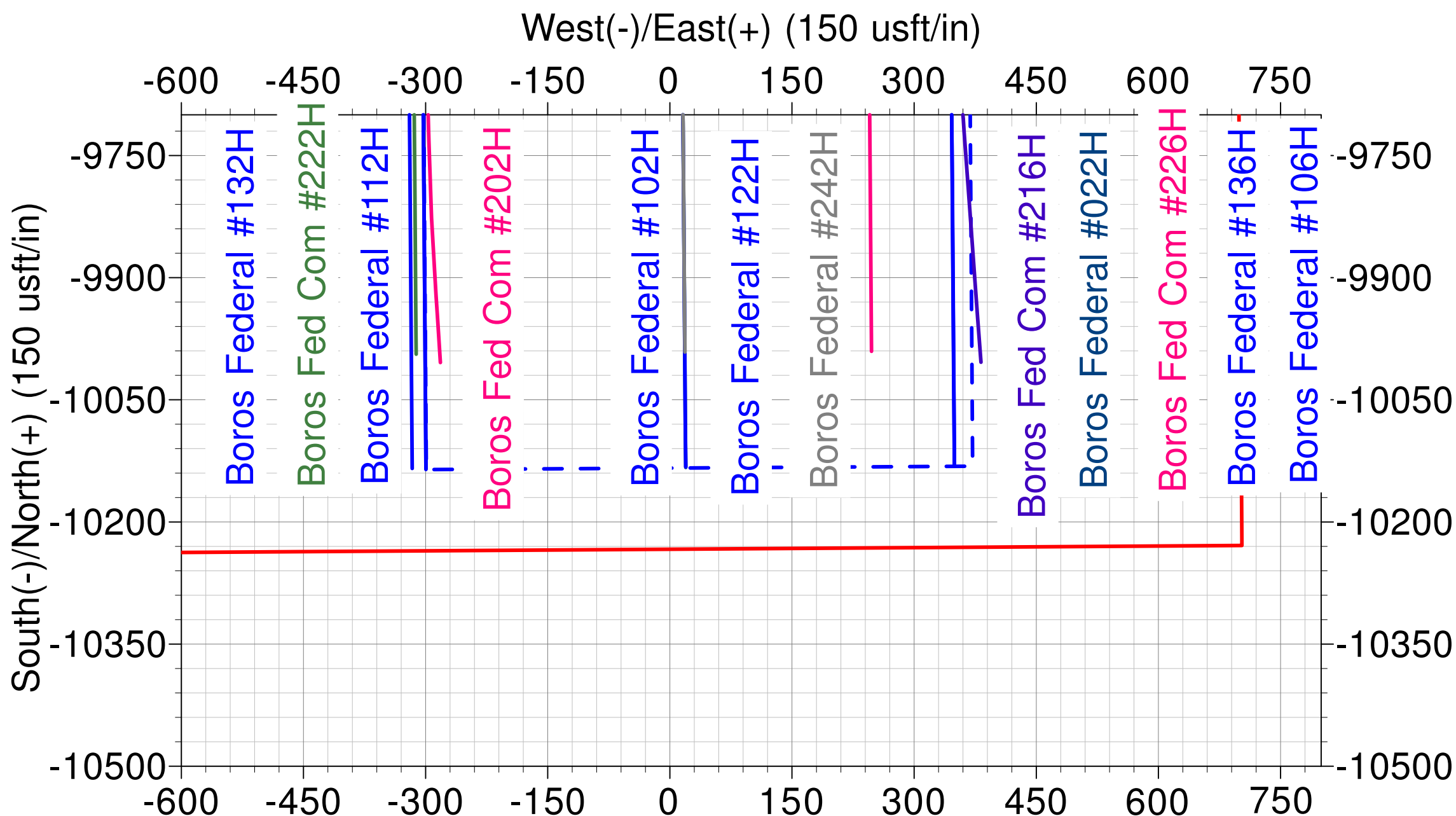
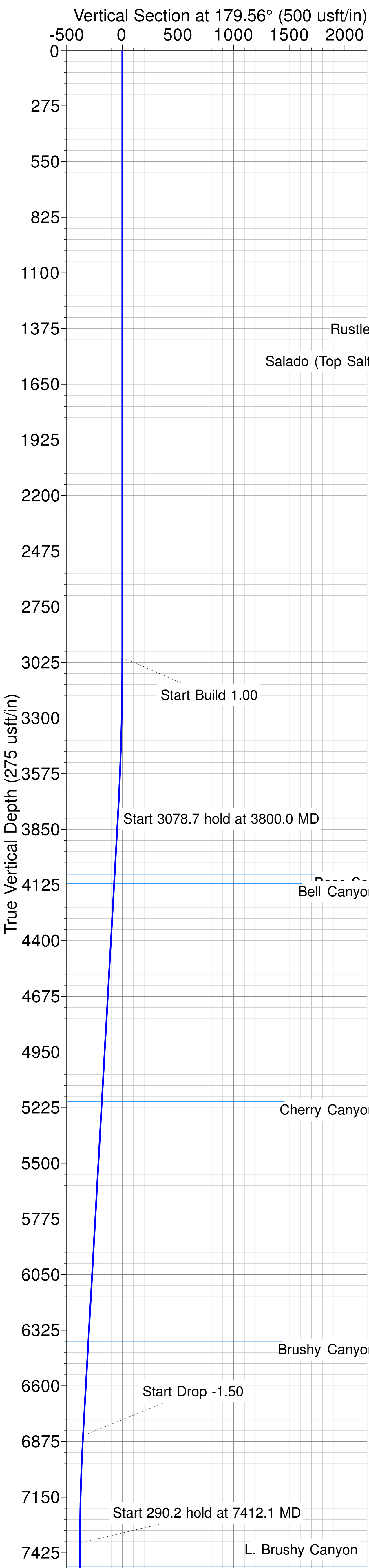
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	Start Build 1.00
3800.0	8.00	316.32	3797.4	40.3	-38.5	1.00	316.32	-40.6	Start 3078.7 hold at 3800.0 MD
6878.7	8.00	316.32	6846.2	350.2	-334.4	0.00	0.00	-352.7	Start Drop -1.50
7412.1	0.00	0.00	7377.8	377.1	-360.1	1.50	180.00	-379.8	Start 290.2 hold at 7412.1 MD
7702.3	0.00	0.00	7668.0	377.1	-360.1	0.00	0.00	-379.8	Start Build 10.00
8602.3	90.00	181.40	8241.0	-195.7	-374.1	10.00	181.40	192.8	Start DLS 2.00 TFO -90.01
8694.2	90.00	179.56	8241.0	-287.7	-374.9	2.00	-90.01	284.8	Start 9847.6 hold at 8694.2 MD
18541.8	90.00	179.56	8241.0	-10134.9	-299.4	0.00	0.00	10132.3	TD at 18541.8



Azimuths to Grid North
True North: -0.30°
Magnetic North: 7.54°

Magnetic Field
Strength: 48635.2snT
Dip Angle: 60.02°
Date: 9/9/2020
Model: IGRF2015



Matador Production Company

Rustler Breaks

Boros

Boros Federal #102H

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 #102H
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 #102H	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:		Northing:	381,953.36 usft	Latitude:	32° 2' 55.786 N
From:	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:	0.30 °

Well		Boros Federal #102H				
Well Position	+N/-S	-6.4 usft	Northing:	381,946.98 usft	Latitude:	32° 2' 55.769 N
	+E/-W	-896.9 usft	Easting:	675,283.08 usft	Longitude:	103° 46' 3.354 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	7.84	60.02	48,635.23399387

Design	BLM Plan #1			
Audit Notes:				
Version:	1	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.56

Plan Survey Tool Program	Date	9/11/2020			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	18,541.5	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	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,800.0	8.00	316.32	3,797.4	40.3	-38.5	1.00	1.00	0.00	316.32	
6,878.7	8.00	316.32	6,846.2	350.2	-334.4	0.00	0.00	0.00	0.00	
7,412.1	0.00	0.00	7,377.8	377.1	-360.1	1.50	-1.50	0.00	180.00	
7,702.3	0.00	0.00	7,668.0	377.1	-360.1	0.00	0.00	0.00	0.00	VP - Boros Federal
8,602.3	90.00	181.40	8,241.0	-195.7	-374.1	10.00	10.00	0.00	181.40	
8,694.2	90.00	179.56	8,241.0	-287.7	-374.9	2.00	0.00	-2.00	-90.01	
18,541.8	90.00	179.56	8,241.0	-10,134.9	-299.4	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 #102H
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 #102H	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
1,337.4	0.00	0.00	1,337.4	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,496.0	0.00	0.00	1,496.0	0.0	0.0	0.0	0.00	0.00	0.00
Salado (Top Salt)									
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
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 1.00									
3,100.0	1.00	316.32	3,100.0	0.6	-0.6	-0.6	1.00	1.00	0.00
3,200.0	2.00	316.32	3,200.0	2.5	-2.4	-2.5	1.00	1.00	0.00
3,300.0	3.00	316.32	3,299.9	5.7	-5.4	-5.7	1.00	1.00	0.00
3,400.0	4.00	316.32	3,399.7	10.1	-9.6	-10.2	1.00	1.00	0.00
3,500.0	5.00	316.32	3,499.4	15.8	-15.1	-15.9	1.00	1.00	0.00
3,600.0	6.00	316.32	3,598.9	22.7	-21.7	-22.9	1.00	1.00	0.00
3,700.0	7.00	316.32	3,698.3	30.9	-29.5	-31.1	1.00	1.00	0.00
3,800.0	8.00	316.32	3,797.4	40.3	-38.5	-40.6	1.00	1.00	0.00
Start 3078.7 hold at 3800.0 MD									
3,900.0	8.00	316.32	3,896.4	50.4	-48.1	-50.8	0.00	0.00	0.00
4,000.0	8.00	316.32	3,995.5	60.5	-57.7	-60.9	0.00	0.00	0.00
4,078.8	8.00	316.32	4,073.5	68.4	-65.3	-68.9	0.00	0.00	0.00
Base Salt									
4,100.0	8.00	316.32	4,094.5	70.5	-67.3	-71.0	0.00	0.00	0.00
4,122.3	8.00	316.32	4,116.5	72.8	-69.5	-73.3	0.00	0.00	0.00
Bell Canyon									
4,200.0	8.00	316.32	4,193.5	80.6	-77.0	-81.2	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Boros Federal #102H
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 #102H	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)
4,300.0	8.00	316.32	4,292.5	90.6	-86.6	-91.3	0.00	0.00	0.00
4,400.0	8.00	316.32	4,391.6	100.7	-96.2	-101.4	0.00	0.00	0.00
4,500.0	8.00	316.32	4,490.6	110.8	-105.8	-111.6	0.00	0.00	0.00
4,600.0	8.00	316.32	4,589.6	120.8	-115.4	-121.7	0.00	0.00	0.00
4,700.0	8.00	316.32	4,688.6	130.9	-125.0	-131.9	0.00	0.00	0.00
4,800.0	8.00	316.32	4,787.7	141.0	-134.6	-142.0	0.00	0.00	0.00
4,900.0	8.00	316.32	4,886.7	151.0	-144.2	-152.1	0.00	0.00	0.00
5,000.0	8.00	316.32	4,985.7	161.1	-153.9	-162.3	0.00	0.00	0.00
5,100.0	8.00	316.32	5,084.8	171.2	-163.5	-172.4	0.00	0.00	0.00
5,200.0	8.00	316.32	5,183.8	181.2	-173.1	-182.6	0.00	0.00	0.00
5,211.2	8.00	316.32	5,194.8	182.4	-174.2	-183.7	0.00	0.00	0.00
Cherry Canyon									
5,300.0	8.00	316.32	5,282.8	191.3	-182.7	-192.7	0.00	0.00	0.00
5,400.0	8.00	316.32	5,381.8	201.4	-192.3	-202.8	0.00	0.00	0.00
5,500.0	8.00	316.32	5,480.9	211.4	-201.9	-213.0	0.00	0.00	0.00
5,600.0	8.00	316.32	5,579.9	221.5	-211.5	-223.1	0.00	0.00	0.00
5,700.0	8.00	316.32	5,678.9	231.6	-221.1	-233.2	0.00	0.00	0.00
5,800.0	8.00	316.32	5,777.9	241.6	-230.8	-243.4	0.00	0.00	0.00
5,900.0	8.00	316.32	5,877.0	251.7	-240.4	-253.5	0.00	0.00	0.00
6,000.0	8.00	316.32	5,976.0	261.7	-250.0	-263.7	0.00	0.00	0.00
6,100.0	8.00	316.32	6,075.0	271.8	-259.6	-273.8	0.00	0.00	0.00
6,200.0	8.00	316.32	6,174.0	281.9	-269.2	-283.9	0.00	0.00	0.00
6,300.0	8.00	316.32	6,273.1	291.9	-278.8	-294.1	0.00	0.00	0.00
6,400.0	8.00	316.32	6,372.1	302.0	-288.4	-304.2	0.00	0.00	0.00
6,407.9	8.00	316.32	6,380.0	302.8	-289.2	-305.0	0.00	0.00	0.00
Brushy Canyon									
6,500.0	8.00	316.32	6,471.1	312.1	-298.0	-314.3	0.00	0.00	0.00
6,600.0	8.00	316.32	6,570.2	322.1	-307.7	-324.5	0.00	0.00	0.00
6,700.0	8.00	316.32	6,669.2	332.2	-317.3	-334.6	0.00	0.00	0.00
6,800.0	8.00	316.32	6,768.2	342.3	-326.9	-344.8	0.00	0.00	0.00
6,878.7	8.00	316.32	6,846.2	350.2	-334.4	-352.7	0.00	0.00	0.00
Start Drop -1.50									
6,900.0	7.68	316.32	6,867.2	352.3	-336.5	-354.9	1.50	-1.50	0.00
7,000.0	6.18	316.32	6,966.5	361.0	-344.8	-363.6	1.50	-1.50	0.00
7,100.0	4.68	316.32	7,066.1	367.9	-351.3	-370.5	1.50	-1.50	0.00
7,200.0	3.18	316.32	7,165.8	372.8	-356.1	-375.5	1.50	-1.50	0.00
7,300.0	1.68	316.32	7,265.7	375.9	-359.0	-378.6	1.50	-1.50	0.00
7,400.0	0.18	316.32	7,365.7	377.1	-360.1	-379.8	1.50	-1.50	0.00
7,412.1	0.00	0.00	7,377.8	377.1	-360.1	-379.8	1.50	-1.50	0.00
Start 290.2 hold at 7412.1 MD									
7,500.0	0.00	0.00	7,465.7	377.1	-360.1	-379.8	0.00	0.00	0.00
7,527.8	0.00	0.00	7,493.5	377.1	-360.1	-379.8	0.00	0.00	0.00
L. Brushy Canyon									
7,600.0	0.00	0.00	7,565.7	377.1	-360.1	-379.8	0.00	0.00	0.00
7,700.0	0.00	0.00	7,665.7	377.1	-360.1	-379.8	0.00	0.00	0.00
7,702.3	0.00	0.00	7,668.0	377.1	-360.1	-379.8	0.00	0.00	0.00
Start Build 10.00 - VP - Boros Federal #102H									
7,800.0	9.77	181.40	7,765.2	368.8	-360.3	-371.5	10.00	10.00	0.00
7,900.0	19.77	181.40	7,861.8	343.3	-360.9	-346.1	10.00	10.00	0.00
8,000.0	29.77	181.40	7,952.5	301.5	-362.0	-304.2	10.00	10.00	0.00
8,100.0	39.77	181.40	8,034.5	244.5	-363.4	-247.3	10.00	10.00	0.00
8,141.9	43.97	181.40	8,065.8	216.6	-364.0	-219.3	10.00	10.00	0.00
BSGL									

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Boros Federal #102H
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 #102H	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)
8,200.0	49.77	181.40	8,105.4	174.2	-365.1	-177.0	10.00	10.00	0.00
8,300.0	59.77	181.40	8,163.0	92.7	-367.1	-95.5	10.00	10.00	0.00
8,365.3	66.30	181.40	8,192.6	34.5	-368.5	-37.3	10.00	10.00	0.00
Avalon-SS									
8,400.0	69.77	181.40	8,205.6	2.3	-369.3	-5.2	10.00	10.00	0.00
8,500.0	79.77	181.40	8,231.9	-94.0	-371.6	91.1	10.00	10.00	0.00
8,600.0	89.77	181.40	8,241.0	-193.4	-374.1	190.6	10.00	10.00	0.00
8,602.3	90.00	181.40	8,241.0	-195.7	-374.1	192.8	10.00	10.00	0.00
Start DLS 2.00 TFO -90.01									
8,694.2	90.00	179.56	8,241.0	-287.7	-374.9	284.8	2.00	0.00	-2.00
Start 9847.6 hold at 8694.2 MD									
8,700.0	90.00	179.56	8,241.0	-293.4	-374.8	290.5	0.00	0.00	0.00
8,800.0	90.00	179.56	8,241.0	-393.4	-374.1	390.5	0.00	0.00	0.00
8,900.0	90.00	179.56	8,241.0	-493.4	-373.3	490.5	0.00	0.00	0.00
9,000.0	90.00	179.56	8,241.0	-593.4	-372.5	590.5	0.00	0.00	0.00
9,100.0	90.00	179.56	8,241.0	-693.4	-371.8	690.5	0.00	0.00	0.00
9,200.0	90.00	179.56	8,241.0	-793.4	-371.0	790.5	0.00	0.00	0.00
9,300.0	90.00	179.56	8,241.0	-893.4	-370.2	890.5	0.00	0.00	0.00
9,400.0	90.00	179.56	8,241.0	-993.4	-369.5	990.5	0.00	0.00	0.00
9,500.0	90.00	179.56	8,241.0	-1,093.4	-368.7	1,090.5	0.00	0.00	0.00
9,600.0	90.00	179.56	8,241.0	-1,193.4	-368.0	1,190.5	0.00	0.00	0.00
9,700.0	90.00	179.56	8,241.0	-1,293.4	-367.2	1,290.5	0.00	0.00	0.00
9,800.0	90.00	179.56	8,241.0	-1,393.4	-366.4	1,390.5	0.00	0.00	0.00
9,900.0	90.00	179.56	8,241.0	-1,493.4	-365.7	1,490.5	0.00	0.00	0.00
10,000.0	90.00	179.56	8,241.0	-1,593.4	-364.9	1,590.5	0.00	0.00	0.00
10,100.0	90.00	179.56	8,241.0	-1,693.4	-364.1	1,690.5	0.00	0.00	0.00
10,200.0	90.00	179.56	8,241.0	-1,793.4	-363.4	1,790.5	0.00	0.00	0.00
10,300.0	90.00	179.56	8,241.0	-1,893.4	-362.6	1,890.5	0.00	0.00	0.00
10,400.0	90.00	179.56	8,241.0	-1,993.4	-361.8	1,990.5	0.00	0.00	0.00
10,500.0	90.00	179.56	8,241.0	-2,093.4	-361.1	2,090.5	0.00	0.00	0.00
10,600.0	90.00	179.56	8,241.0	-2,193.4	-360.3	2,190.5	0.00	0.00	0.00
10,700.0	90.00	179.56	8,241.0	-2,293.4	-359.5	2,290.5	0.00	0.00	0.00
10,800.0	90.00	179.56	8,241.0	-2,393.4	-358.8	2,390.5	0.00	0.00	0.00
10,900.0	90.00	179.56	8,241.0	-2,493.4	-358.0	2,490.5	0.00	0.00	0.00
11,000.0	90.00	179.56	8,241.0	-2,593.4	-357.2	2,590.5	0.00	0.00	0.00
11,100.0	90.00	179.56	8,241.0	-2,693.4	-356.5	2,690.5	0.00	0.00	0.00
11,200.0	90.00	179.56	8,241.0	-2,793.3	-355.7	2,790.5	0.00	0.00	0.00
11,300.0	90.00	179.56	8,241.0	-2,893.3	-354.9	2,890.5	0.00	0.00	0.00
11,400.0	90.00	179.56	8,241.0	-2,993.3	-354.2	2,990.5	0.00	0.00	0.00
11,500.0	90.00	179.56	8,241.0	-3,093.3	-353.4	3,090.5	0.00	0.00	0.00
11,600.0	90.00	179.56	8,241.0	-3,193.3	-352.6	3,190.5	0.00	0.00	0.00
11,700.0	90.00	179.56	8,241.0	-3,293.3	-351.9	3,290.5	0.00	0.00	0.00
11,800.0	90.00	179.56	8,241.0	-3,393.3	-351.1	3,390.5	0.00	0.00	0.00
11,900.0	90.00	179.56	8,241.0	-3,493.3	-350.3	3,490.5	0.00	0.00	0.00
12,000.0	90.00	179.56	8,241.0	-3,593.3	-349.6	3,590.5	0.00	0.00	0.00
12,100.0	90.00	179.56	8,241.0	-3,693.3	-348.8	3,690.5	0.00	0.00	0.00
12,200.0	90.00	179.56	8,241.0	-3,793.3	-348.0	3,790.5	0.00	0.00	0.00
12,300.0	90.00	179.56	8,241.0	-3,893.3	-347.3	3,890.5	0.00	0.00	0.00
12,400.0	90.00	179.56	8,241.0	-3,993.3	-346.5	3,990.5	0.00	0.00	0.00
12,500.0	90.00	179.56	8,241.0	-4,093.3	-345.7	4,090.5	0.00	0.00	0.00
12,600.0	90.00	179.56	8,241.0	-4,193.3	-345.0	4,190.5	0.00	0.00	0.00
12,700.0	90.00	179.56	8,241.0	-4,293.3	-344.2	4,290.5	0.00	0.00	0.00
12,800.0	90.00	179.56	8,241.0	-4,393.3	-343.4	4,390.5	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Boros Federal #102H
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 #102H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,900.0	90.00	179.56	8,241.0	-4,493.3	-342.7	4,490.5	0.00	0.00	0.00
13,000.0	90.00	179.56	8,241.0	-4,593.3	-341.9	4,590.5	0.00	0.00	0.00
13,100.0	90.00	179.56	8,241.0	-4,693.3	-341.1	4,690.5	0.00	0.00	0.00
13,200.0	90.00	179.56	8,241.0	-4,793.3	-340.4	4,790.5	0.00	0.00	0.00
13,300.0	90.00	179.56	8,241.0	-4,893.3	-339.6	4,890.5	0.00	0.00	0.00
13,400.0	90.00	179.56	8,241.0	-4,993.3	-338.8	4,990.5	0.00	0.00	0.00
13,500.0	90.00	179.56	8,241.0	-5,093.3	-338.1	5,090.5	0.00	0.00	0.00
13,600.0	90.00	179.56	8,241.0	-5,193.3	-337.3	5,190.5	0.00	0.00	0.00
13,700.0	90.00	179.56	8,241.0	-5,293.3	-336.5	5,290.5	0.00	0.00	0.00
13,800.0	90.00	179.56	8,241.0	-5,393.3	-335.8	5,390.5	0.00	0.00	0.00
13,900.0	90.00	179.56	8,241.0	-5,493.3	-335.0	5,490.5	0.00	0.00	0.00
14,000.0	90.00	179.56	8,241.0	-5,593.3	-334.2	5,590.5	0.00	0.00	0.00
14,100.0	90.00	179.56	8,241.0	-5,693.3	-333.5	5,690.5	0.00	0.00	0.00
14,200.0	90.00	179.56	8,241.0	-5,793.3	-332.7	5,790.5	0.00	0.00	0.00
14,300.0	90.00	179.56	8,241.0	-5,893.3	-331.9	5,890.5	0.00	0.00	0.00
14,400.0	90.00	179.56	8,241.0	-5,993.3	-331.2	5,990.5	0.00	0.00	0.00
14,500.0	90.00	179.56	8,241.0	-6,093.3	-330.4	6,090.5	0.00	0.00	0.00
14,600.0	90.00	179.56	8,241.0	-6,193.2	-329.6	6,190.5	0.00	0.00	0.00
14,700.0	90.00	179.56	8,241.0	-6,293.2	-328.9	6,290.5	0.00	0.00	0.00
14,800.0	90.00	179.56	8,241.0	-6,393.2	-328.1	6,390.5	0.00	0.00	0.00
14,900.0	90.00	179.56	8,241.0	-6,493.2	-327.3	6,490.5	0.00	0.00	0.00
15,000.0	90.00	179.56	8,241.0	-6,593.2	-326.6	6,590.5	0.00	0.00	0.00
15,100.0	90.00	179.56	8,241.0	-6,693.2	-325.8	6,690.5	0.00	0.00	0.00
15,200.0	90.00	179.56	8,241.0	-6,793.2	-325.0	6,790.5	0.00	0.00	0.00
15,300.0	90.00	179.56	8,241.0	-6,893.2	-324.3	6,890.5	0.00	0.00	0.00
15,400.0	90.00	179.56	8,241.0	-6,993.2	-323.5	6,990.5	0.00	0.00	0.00
15,500.0	90.00	179.56	8,241.0	-7,093.2	-322.7	7,090.5	0.00	0.00	0.00
15,600.0	90.00	179.56	8,241.0	-7,193.2	-322.0	7,190.5	0.00	0.00	0.00
15,700.0	90.00	179.56	8,241.0	-7,293.2	-321.2	7,290.5	0.00	0.00	0.00
15,800.0	90.00	179.56	8,241.0	-7,393.2	-320.4	7,390.5	0.00	0.00	0.00
15,900.0	90.00	179.56	8,241.0	-7,493.2	-319.7	7,490.5	0.00	0.00	0.00
16,000.0	90.00	179.56	8,241.0	-7,593.2	-318.9	7,590.5	0.00	0.00	0.00
16,100.0	90.00	179.56	8,241.0	-7,693.2	-318.1	7,690.5	0.00	0.00	0.00
16,200.0	90.00	179.56	8,241.0	-7,793.2	-317.4	7,790.5	0.00	0.00	0.00
16,300.0	90.00	179.56	8,241.0	-7,893.2	-316.6	7,890.5	0.00	0.00	0.00
16,400.0	90.00	179.56	8,241.0	-7,993.2	-315.8	7,990.5	0.00	0.00	0.00
16,500.0	90.00	179.56	8,241.0	-8,093.2	-315.1	8,090.5	0.00	0.00	0.00
16,600.0	90.00	179.56	8,241.0	-8,193.2	-314.3	8,190.5	0.00	0.00	0.00
16,700.0	90.00	179.56	8,241.0	-8,293.2	-313.5	8,290.5	0.00	0.00	0.00
16,800.0	90.00	179.56	8,241.0	-8,393.2	-312.8	8,390.5	0.00	0.00	0.00
16,900.0	90.00	179.56	8,241.0	-8,493.2	-312.0	8,490.5	0.00	0.00	0.00
17,000.0	90.00	179.56	8,241.0	-8,593.2	-311.2	8,590.5	0.00	0.00	0.00
17,100.0	90.00	179.56	8,241.0	-8,693.2	-310.5	8,690.5	0.00	0.00	0.00
17,200.0	90.00	179.56	8,241.0	-8,793.2	-309.7	8,790.5	0.00	0.00	0.00
17,300.0	90.00	179.56	8,241.0	-8,893.2	-308.9	8,890.5	0.00	0.00	0.00
17,400.0	90.00	179.56	8,241.0	-8,993.2	-308.2	8,990.5	0.00	0.00	0.00
17,500.0	90.00	179.56	8,241.0	-9,093.2	-307.4	9,090.5	0.00	0.00	0.00
17,600.0	90.00	179.56	8,241.0	-9,193.2	-306.6	9,190.5	0.00	0.00	0.00
17,700.0	90.00	179.56	8,241.0	-9,293.2	-305.9	9,290.5	0.00	0.00	0.00
17,800.0	90.00	179.56	8,241.0	-9,393.2	-305.1	9,390.5	0.00	0.00	0.00
17,900.0	90.00	179.56	8,241.0	-9,493.2	-304.3	9,490.5	0.00	0.00	0.00
18,000.0	90.00	179.56	8,241.0	-9,593.1	-303.6	9,590.5	0.00	0.00	0.00
18,100.0	90.00	179.56	8,241.0	-9,693.1	-302.8	9,690.5	0.00	0.00	0.00
18,200.0	90.00	179.56	8,241.0	-9,793.1	-302.0	9,790.5	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Boros Federal #102H
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 #102H	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)
18,300.0	90.00	179.56	8,241.0	-9,893.1	-301.3	9,890.5	0.00	0.00	0.00
18,400.0	90.00	179.56	8,241.0	-9,993.1	-300.5	9,990.5	0.00	0.00	0.00
18,500.0	90.00	179.56	8,241.0	-10,093.1	-299.7	10,090.5	0.00	0.00	0.00
18,541.8	90.00	179.56	8,241.0	-10,134.9	-299.4	10,132.3	0.00	0.00	0.00
TD at 18541.8 - BHL - Boros Federal #102H									

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 - hit/miss target - Shape - Point	0.00	0.00	7,668.0	377.1	-360.1	382,324.00	674,923.00	32° 2' 59.519 N	103° 46' 7.515 W
BHL - Boros Federal # - plan hits target center - Point	0.00	0.00	8,241.0	-10,134.9	-299.4	371,812.14	674,983.66	32° 1' 15.488 N	103° 46' 7.449 W

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,337.4	1,337.4	Rustler				
1,496.0	1,496.0	Salado (Top Salt)				
4,078.8	4,073.5	Base Salt				
4,122.3	4,116.5	Bell Canyon				
5,211.2	5,194.8	Cherry Canyon				
6,407.9	6,380.0	Brushy Canyon				
7,527.8	7,493.5	L. Brushy Canyon				
8,141.9	8,065.8	BSGL				
8,365.3	8,192.6	Avalon-SS				

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,000.0	3,000.0	0.0	0.0	Start Build 1.00
3,800.0	3,797.4	40.3	-38.5	Start 3078.7 hold at 3800.0 MD
6,878.7	6,846.2	350.2	-334.4	Start Drop -1.50
7,412.1	7,377.8	377.1	-360.1	Start 290.2 hold at 7412.1 MD
7,702.3	7,668.0	377.1	-360.1	Start Build 10.00
8,602.3	8,241.0	-195.7	-374.1	Start DLS 2.00 TFO -90.01
8,694.2	8,241.0	-287.7	-374.9	Start 9847.6 hold at 8694.2 MD
18,541.8	8,241.0	-10,134.9	-299.4	TD at 18541.8

Boros Federal 102H
SHL: 430' FNL & 2040' FWL Section 15
BHL: 100' FSL & 1644' FWL Section 22
Township/Range: 26S 31E
Elevation Above Sea Level: 3227

Drilling Operation Plan

Proposed Drilling Depth: 18541' MD / 8241' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation Quaternary Deposits

KOP Lat/Long (NAD83): 32.04998598929148 N / -103.77358936453608 W

TD Lat/Long (NAD83): 32.021089245787294 N / -103.77350355448475 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	2,578	Salt	Barren
Lamar (Base of Salt)	4,073	4,073	43	Dolomite	Barren
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	Sandstone	Oil/Natural Gas
KOP	7,702	7,668	-	Sandstone	Oil/Natural Gas
Bone Spring Lime	8,141	8,065	127	Limestone	Oil/Natural Gas
Avalon Sand	8,365	8,192	-	Sandstone	Oil/Natural Gas
TD	18,541	8,241		Sandstone	Oil/Natural Gas

2. Notable Zones

Avalon 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' 5,000-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 5,000 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	0 - 1361	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 8200	0 - 8105	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	6.75	0 - 18541	0 - 8241	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 the option to deepen the Intermediate 1 casing set depth to 80° in curve, no changes in pipe grade or weight is necessary.

Variance Request

Drill Plan

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.

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	570	3.66	2088	10.3	35%	0	A/C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	210	1.38	290	13.2	35%	7200	A/C	5% NaCl + LCM
Production	Tail	720	1.35	968	13.2	10%	8000	A/C	Fluid Loss + Dispersant + Retarder

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	8.4 - 8.8	28-30	NC
Intermediate 1	9.875	Diesel Brine Emulsion	1361 - 8200	8.4 - 9.4	28-30	NC
Production	6.75	Cut Brine/OBM	8200 - 18541	8.6 - 9.4	50-65	<20

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. Bottom hole pressure is 4028 psi. Maximum anticipated surface pressure is 2215 psi. Expected bottom hole temperature is 151 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 an "H2S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H2S safety package on all wells, attached is an "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 equipment being used.

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

CONDITIONS

Action 178441

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 178441
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	1/25/2023