

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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.

SUBMIT IN TRIPLICATE - Other instructions on page 2		5. Lease Serial No.
1. Type of Well ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator		7. If Unit of CA/Agreement, Name and/or No.
3a. Address	3b. Phone No. (include area code)	8. Well Name and No.
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		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	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate 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 perfonned 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 recompletion 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

Location of Well

0. SHL: NWNE / 260 FNL / 1348 FEL / TWSP: 26S / RANGE: 31E / SECTION: 21 / LAT: 32.0347508 / LONG: -103.779024 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 330 FNL / 661 FEL / TWSP: 26S / RANGE: 31E / SECTION: 21 / LAT: 32.034562 / LONG: -103.7768039 (TVD: 11235 feet, MD: 11235 feet)

PPP: NENE / 0 FNL / 679 FEL / TWSP: 26S / RANGE: 31E / SECTION: 28 / LAT: 32.0208275 / LONG: -103.776754 (TVD: 13591 feet, MD: 18600 feet)

BHL: LOT 1 / 240 FSL / 660 FEL / TWSP: 26S / RANGE: 31E / SECTION: 33 / LAT: 32.0008431 / LONG: -103.7766864 (TVD: 13591 feet, MD: 25941 feet)

CONFIDENTIAL

Well Name: VONI FED COM	Well Location: T26S / R31E / SEC 21 / NWNE / 32.0347508 / -103.779024	County or Parish/State: EDDY / NM
Well Number: 244H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM138866	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001547135	Well Status: Approved Application for Permit to Drill	Operator: MATADOR PRODUCTION COMPANY

Notice of Intent

Sundry ID: 2667953

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 04/21/2022	Time Sundry Submitted: 08:37
Date proposed operation will begin: 01/05/2023	

Procedure Description: BLM Bond No. NMB 001079 Surety Bond No. RLB 0015172 Matador respectfully request the option to make the following changes to the Voni Fed Com #244H: - Change the SHL from 260' FNL & 1346' FEL to 260' FNL & 1298' FEL. SHL remains on previously approved pad site. - Change the BHL from 240' FSL & 660' FEL to 240' FSL & 1650' FEL. BHL remains in the previously approved unit. - Shallow well to WFMP B, attached is revised drill plan with updated casing depths. Thanks for your time and diligence on this matter.

NOI Attachments

Procedure Description

- LO_VONI_FED_COM_244H_REV5_S_20220421083610__1__1.3.23_20230104090341.pdf
- Voni_Fed_Com_244H_Directional_Wall_Plot_v3_20220421083553.pdf
- Voni_Fed_Com_244H_Directional_Well_Plan_v3_20220421083553.pdf
- Voni_Fed_Com_244H_BLM_Drill_Plan_20220421083553.pdf
- Voni_Fed_Com_244H_Directional_AC_Report_v3_20220421083553.pdf
- Voni_Fed_Com_244H_BLM_Tapered_String_Spec_20220421083552.pdf
- Well_Remark_On_Well_2539897_UsWellNumber_3302503160_By_RACHAEL_RAMSEY_Date_2016_04_27.txt
- Well_Remark_On_Well_2539897_UsWellNumber_3302503160_By_RACHAEL_RAMSEY_Date_2016_04_27.txt

Received by OCD: 1/5/2023 7:32:01 AM

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Lease Number: NMNM138866	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001547135	Well Status: Approved Application for Permit to Drill	Operator: MATADOR PRODUCTION COMPANY

Conditions of Approval

Additional
VONI_FED_COM_244H__SUNDRY_COA_20230104094404.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: CASSIE HAHN

Signed on: JAN 04, 2023 09:04 AM

Name: MATADOR PRODUCTION COMPANY

Title: Landman

Street Address: 5400 LBJ FREEWAY, SUITE 1500

City: DALLASState: TX

Phone: (972) 371-5440

Email address: CHAHN@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: 01/04/2023

Signature: Chris Walls

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 30-015-47135	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code 328098	⁵ Property Name VONI FED COM	⁶ Well Number 244H
⁷ OGRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 3190'

¹⁰Surface Location

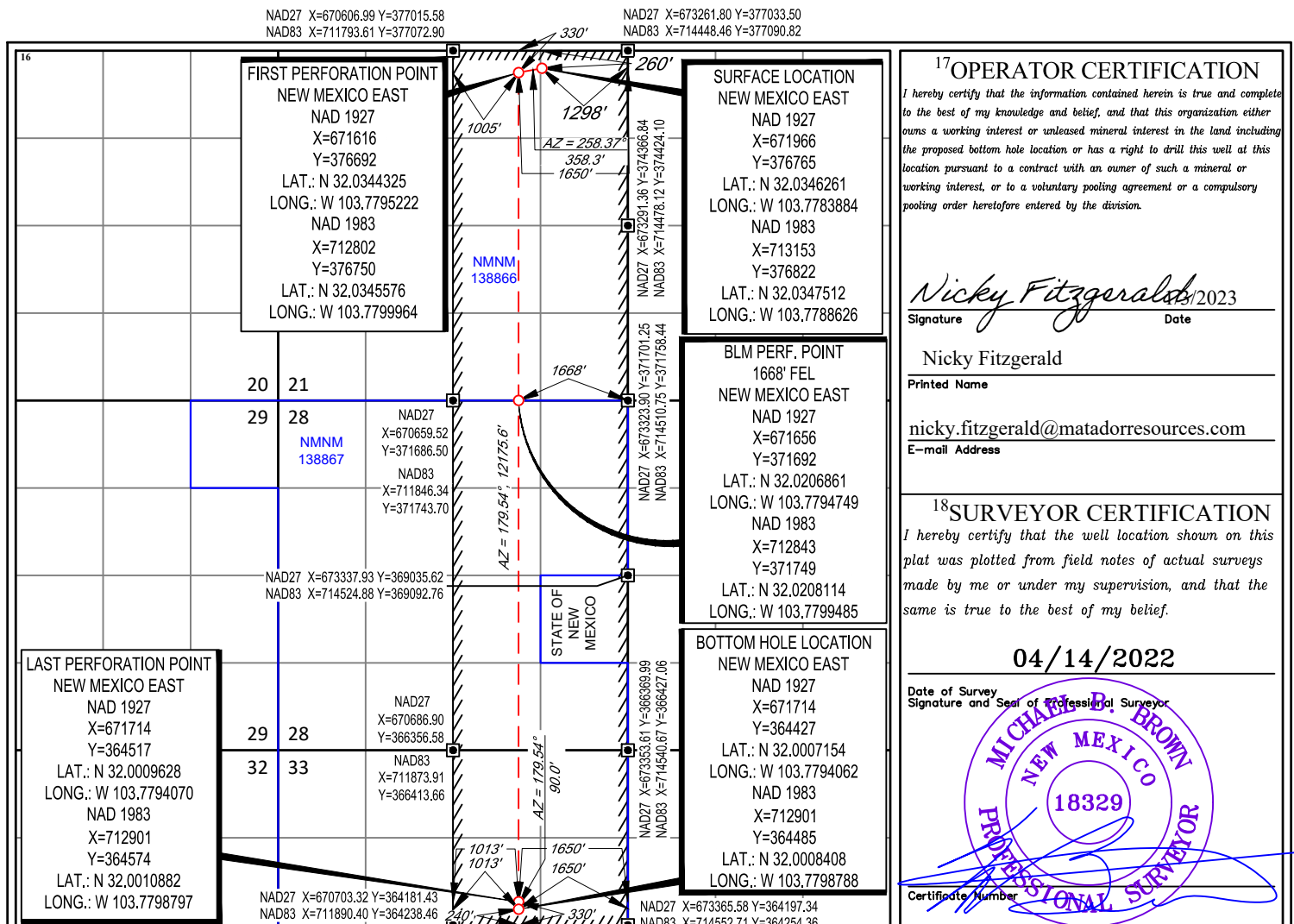
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	21	26-S	31-E	-	260'	NORTH	1298'	EAST	EDDY

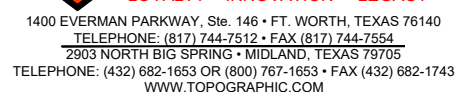
¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	33	26-S	31-E	-	240'	SOUTH	1650'	EAST	EDDY

¹² Dedicated Acres 770.49	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.





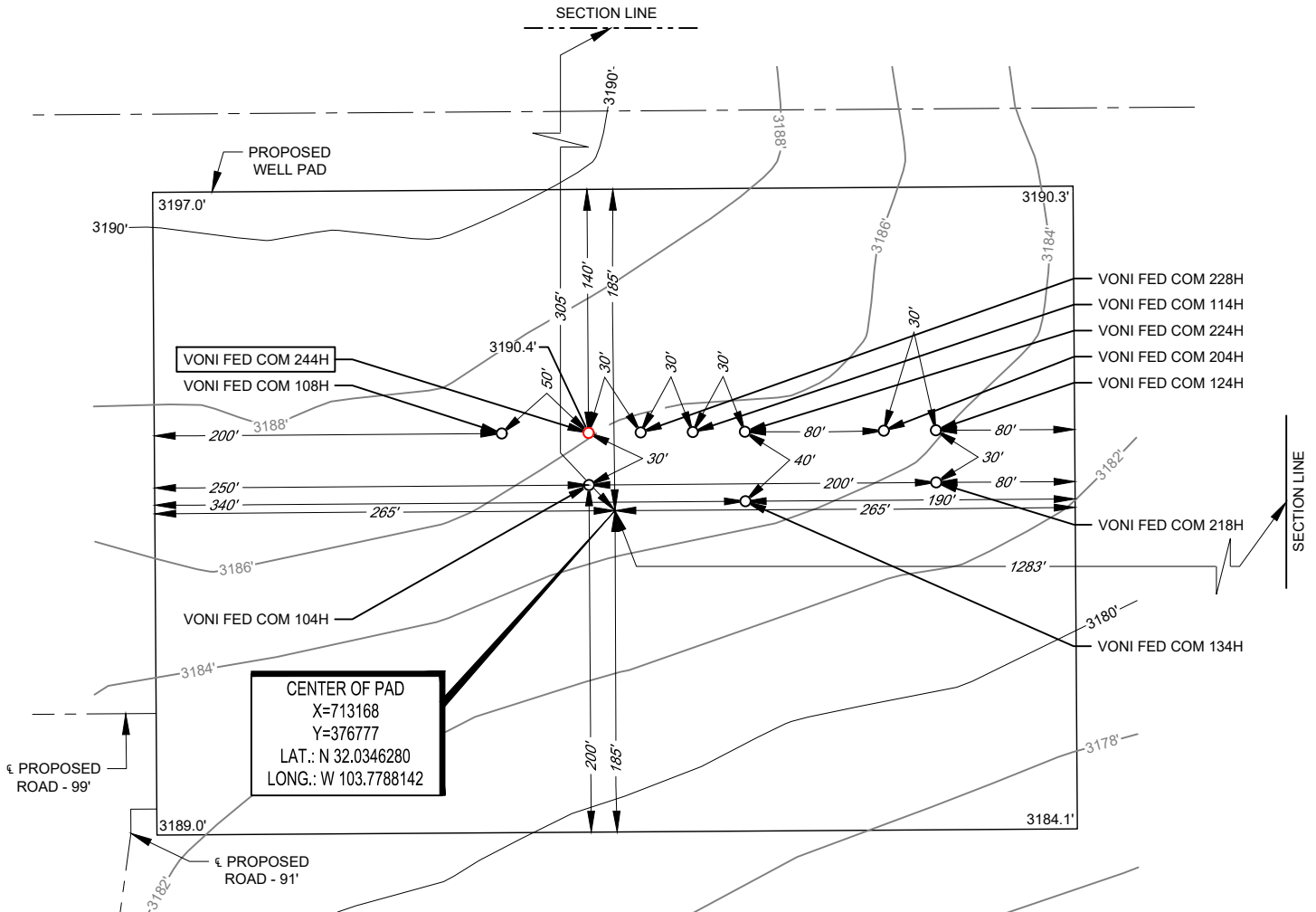


LEGEND

----- SECTION LINE
 - - - - - PROPOSED ROAD

SECTION 21, TOWNSHIP 26-S, RANGE 31-E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

DETAIL VIEW
 SCALE: 1" = 100'



LEASE NAME & WELL NO.: VONI FED COM 244H
 244H LATITUDE N 32.0347512 244H LONGITUDE W 103.7788626

CENTER OF PAD IS 305' FNL & 1283' FEL



Michael Blake Brown, P.S. No. 18329

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'



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

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

All previous COAs apply

OPERATOR'S NAME:	MATADOR PRODUCTION COMPANY
LEASE NO.:	NMNM138866
WELL NAME & NO.:	VONI FED COM 244H
SHL :	260'/N 1298'/E
BHL:	240'/S 1650'/E
LOCATION:	Section 21, T.26 S., R.31 E. A
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 **1066** 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 **11,777 feet. KEEP CASING FULL FOR COLLAPSE SF DURING RUN.** 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 **24,811 feet. CFO CEMENT EXCESS RECOMMENDATION IS 25%+. MORE CEMENT MIGHT BE NEEDED TO ACCOMPLISH TIE BACK REQUIREMENT.** 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 – 1-4-2022

Tapered String Specification Sheet

Voni Fed Com 244H

SHL: 260' FNL & 1298' FEL Section 21

BHL: 240' FSL & 1650' FEL Section 33

Township/Range: 26S 31E

Elevation Above Sea Level: 3190'

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 - 1066	0 - 1066	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 11791	0 - 11777	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	6.75	0 - 24811	0 - 12500	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

Drill Plan

Voni Fed Com 244H
SHL: 260' FNL & 1298' FEL Section 21
BHL: 240' FSL & 1650' FEL Section 33
Township/Range: 26S 31E
Elevation Above Sea Level: 3190

Drilling Operation Plan

Proposed Drilling Depth: 24811' MD / 12500' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type Gas

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.0353263695 N / -103.7800162125 W

TD Lat/Long (NAD83): 32.0008406405 N / -103.7799162096 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	893	893	681	Anhydrite	Barren
Salado (Top of Salt)	1,574	1,574	1,817	Salt	Barren
Lamar (Base of Salt)	4,025	4,025	27	Salt	Barren
Bell Canyon	4,052	4,052	1,090	Sandstone	Oil/Natural Gas
Cherry Canyon	5,142	5,142	1,149	Sandstone	Oil/Natural Gas
Brushy Canyon	6,291	6,291	1,653	Sandstone	Oil/Natural Gas
Bone Spring Lime	7,944	7,944	986	Limestone	Oil/Natural Gas
1st Bone Spring Sand	8,930	8,930	425	Sandstone	Oil/Natural Gas
2nd Bone Spring Carbonate	9,355	9,355	253	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	9,608	9,608	503	Sandstone	Oil/Natural Gas
3rd Bone Spring Carbonate	10,111	10,111	708	Carbonate	Oil/Natural Gas
3rd Bone Spring Sand	10,819	10,819	416	Sandstone	Oil/Natural Gas
Wolfcamp	11,235	11,235	-	Shale	Oil/Natural Gas
KOP	11,941	11,927	-	Shale	Oil/Natural Gas
TD	24,811	12,500	-	Shale	Oil/Natural Gas

2. Notable Zones

Wolfcamp 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 18,000' 10,000-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.

Drill PlanTesting Procedure

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 10M BOPE system will be installed. Test pressures will be 250 psi low and 10,000 psi high with the annular preventer being tested to 250 psi low and 5000 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 10M 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.

Matador requests a variance to drill this well using a 5M annular preventer with a 10M BOP ram stack. The "Well Control Plan For 10M MASP Section of Wellbore" is attached.

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 - 1066	0 - 1066	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 11791	0 - 11777	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	6.75	0 - 24811	0 - 12500	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

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 (ft)	Class	Blend
Surface	Lead	460	1.75	797	13.5	50%	0	C	5% NaCl + LCM
	Tail	250	1.38	348	14.8	50%	766	C	5% NaCl + LCM
Intermediate 1	Lead	870	3.66	3201	10.3	25%	0	A/C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	200	1.41	286	13.2	25%	10791	A/C	Fluid Loss + Dispersant + Retarder + LCM
Production	Tail	1030	1.19	1224	14.2	10%	11591	H	Fluid Loss + Dispersant + Retarder + LCM

5. Mud Program

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

Hole Section	Hole Size (in)	Mud Type	Interval MD (ft)	Density (lb/gal)	Viscosity	Fluid Loss
Surface	17.5	Spud Mud	0 - 1066	8.4 - 8.8	28-30	NC
Intermediate 1	9.875	Brine Diesel Emulsion	1066 - 11791	8.4 - 9.4	28-30	NC
Production	6.75	OBM	11791 - 24811	12 - 13.5	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

Drill Plan

No abnormal pressure or temperature is expected. Bottom hole pressure is 8775 psi. Maximum anticipated surface pressure is 6025 psi. Expected bottom hole temperature is 201° F.

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

Matador Production Company

Rustler Breaks

Voni

Voni Fed Com #244H

Wellbore #1

BLM Plan #1

Anticollision Report

19 April, 2022

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	4/19/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	24,811.6	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						
Voni						
Voni Fed Com #114H - Wellbore #1 - Actual	866.2	863.3	56.9	51.4	10.213	CC
Voni Fed Com #114H - Wellbore #1 - Actual	1,000.0	996.9	57.1	50.5	8.742	ES
Voni Fed Com #114H - Wellbore #1 - Actual	1,600.0	1,594.9	64.7	53.9	6.001	SF
Voni Fed Com #124H - Wellbore #1 - Actual	0.0	0.0	200.1			
Voni Fed Com #124H - Wellbore #1 - Actual	400.0	397.1	201.7	199.5	92.250	ES
Voni Fed Com #124H - Wellbore #1 - Actual	23,700.0	23,700.0	2,774.5	2,532.7	11.474	SF
Voni Fed Com #134H - Wellbore #1 - Actual	201.7	200.7	94.8	93.7	85.536	CC
Voni Fed Com #134H - Wellbore #1 - Actual	700.0	698.3	95.9	91.2	20.711	ES
Voni Fed Com #134H - Wellbore #1 - Actual	24,811.6	22,856.6	2,089.0	1,858.6	9.065	SF
Voni Fed Com #204H - Wellbore #1 - Actual	1,364.6	1,361.9	156.7	147.6	17.265	CC
Voni Fed Com #204H - Wellbore #1 - Actual	1,400.0	1,396.0	156.9	147.5	16.824	ES
Voni Fed Com #204H - Wellbore #1 - Actual	24,400.0	24,400.0	1,445.4	1,177.5	5.395	SF
Voni Fed Com #217H - Wellbore #1 - Actual	8,230.5	8,241.4	117.4	58.9	2.005	CC
Voni Fed Com #217H - Wellbore #1 - Actual	10,000.0	10,010.2	126.1	55.4	1.785	ES, SF
Voni Fed Com #218H - Wellbore #1 - Actual	0.0	0.0	202.3			
Voni Fed Com #218H - Wellbore #1 - Actual	100.0	95.9	202.5	202.2	723.197	ES
Voni Fed Com #218H - Wellbore #1 - Actual	24,811.6	23,826.4	1,583.9	1,230.1	4.477	SF
Voni Fed Com #224H - Wellbore #1 - Actual	0.0	0.0	90.1			
Voni Fed Com #224H - Wellbore #1 - Actual	2,100.0	2,099.5	99.4	85.2	6.963	ES
Voni Fed Com #224H - Wellbore #1 - Actual	24,811.6	24,318.2	825.7	458.1	2.246	SF
Voni Fed Com #228H - Wellbore #1 - BLM Plan #1	2,000.0	2,002.0	30.0	16.1	2.160	CC, ES
Voni Fed Com #228H - Wellbore #1 - BLM Plan #1	2,100.0	2,102.0	30.8	16.2	2.107	SF

Offset Design	Voni - Voni Fed Com #114H - Wellbore #1 - Actual											Offset Site Error:	0.0 usft
Survey Program:	174-MWD											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	89.57	0.5	60.0	60.1				
100.0	100.0	97.0	97.0	0.1	0.1	89.59	0.4	60.0	60.0	59.7	0.27	219.089	
200.0	200.0	197.1	197.1	0.5	0.3	89.66	0.4	59.8	59.8	59.0	0.83	72.098	
300.0	300.0	297.3	297.3	0.8	0.7	89.60	0.4	59.4	59.4	57.9	1.55	38.471	
400.0	400.0	397.4	397.4	1.2	1.1	89.35	0.7	58.8	58.8	56.5	2.26	26.011	
500.0	500.0	497.5	497.5	1.6	1.4	89.03	1.0	58.0	58.0	55.1	2.98	19.510	

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 Voni Fed Com #244H
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Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #114H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 174-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		
600.0	600.0	597.3	597.3	1.9	1.8	88.50	1.5	57.4	57.4	53.7	3.69	15.568		
700.0	700.0	697.1	697.1	2.3	2.1	87.50	2.5	57.0	57.1	52.7	4.40	12.981		
800.0	800.0	797.1	797.0	2.6	2.5	86.17	3.8	56.8	57.0	51.9	5.11	11.157		
866.2	866.2	863.3	863.2	2.9	2.7	85.19	4.8	56.7	56.9	51.4	5.58	10.213 CC		
900.0	900.0	897.0	897.0	3.0	2.8	84.66	5.3	56.7	57.0	51.1	5.82	9.793		
1,000.0	1,000.0	996.9	996.9	3.4	3.2	82.80	7.1	56.6	57.1	50.5	6.53	8.742 ES		
1,100.0	1,100.0	1,096.3	1,096.2	3.7	3.5	80.92	9.1	57.0	57.8	50.5	7.23	7.987		
1,200.0	1,200.0	1,196.5	1,196.4	4.1	3.9	79.40	10.9	58.3	59.3	51.4	7.94	7.470		
1,300.0	1,300.0	1,296.8	1,296.7	4.4	4.2	77.62	12.8	58.4	59.7	51.1	8.66	6.900		
1,400.0	1,400.0	1,396.6	1,396.5	4.8	4.6	75.97	14.7	58.6	60.4	51.1	9.37	6.450		
1,500.0	1,500.0	1,495.8	1,495.6	5.1	4.9	74.12	16.9	59.4	61.8	51.7	10.08	6.129		
1,600.0	1,600.0	1,594.9	1,594.7	5.5	5.3	71.20	20.8	61.2	64.7	53.9	10.79	6.001 SF		
1,700.0	1,700.0	1,693.1	1,692.6	5.9	5.6	67.53	26.5	64.1	69.5	58.1	11.49	6.055		
1,800.0	1,800.0	1,791.1	1,790.2	6.2	6.0	63.23	34.6	68.6	77.1	64.9	12.18	6.333		
1,900.0	1,900.0	1,890.4	1,888.9	6.6	6.4	59.47	43.6	74.0	86.3	73.4	12.88	6.698		
2,000.0	2,000.0	1,990.0	1,988.0	6.9	6.7	56.34	52.8	79.3	95.7	82.1	13.60	7.038		
2,100.0	2,100.0	2,088.8	2,086.2	7.3	7.1	113.80	62.4	84.4	105.9	91.6	14.30	7.406		
2,200.0	2,200.0	2,187.7	2,184.4	7.6	7.5	112.32	72.7	89.7	117.4	102.4	15.00	7.828		
2,300.0	2,299.9	2,287.2	2,283.2	8.0	7.8	111.76	83.1	95.0	129.7	114.0	15.71	8.259		
2,402.1	2,401.8	2,390.3	2,385.6	8.4	8.2	111.74	93.8	99.6	142.1	125.7	16.46	8.636		
2,500.0	2,499.4	2,487.9	2,482.7	8.7	8.6	112.08	103.5	103.1	153.4	136.2	17.16	8.936		
2,600.0	2,599.2	2,586.1	2,580.4	9.1	9.0	112.91	112.3	108.0	165.5	147.6	17.87	9.263		
2,700.0	2,698.9	2,686.0	2,679.8	9.4	9.4	113.97	120.5	113.5	177.6	159.0	18.59	9.552		
2,800.0	2,798.7	2,786.2	2,779.5	9.8	9.7	114.90	128.4	118.8	189.4	170.1	19.32	9.802		
2,900.0	2,898.4	2,885.0	2,877.9	10.1	10.1	115.76	135.9	123.8	200.8	180.8	20.03	10.023		
3,000.0	2,998.2	2,983.1	2,975.5	10.5	10.5	116.68	143.2	129.6	213.0	192.2	20.74	10.268		
3,100.0	3,098.0	3,083.2	3,075.3	10.9	10.9	117.57	150.5	135.7	225.3	203.8	21.47	10.493		
3,200.0	3,197.7	3,184.8	3,176.5	11.2	11.2	118.46	157.2	141.4	236.8	214.6	22.21	10.663		
3,300.0	3,297.5	3,286.7	3,278.0	11.6	11.6	119.29	163.4	146.3	247.4	224.5	22.95	10.779		
3,400.0	3,397.2	3,386.5	3,377.6	12.0	12.0	120.31	168.0	151.1	257.4	233.7	23.67	10.872		
3,500.0	3,497.0	3,483.8	3,474.7	12.3	12.4	121.46	171.8	156.6	267.8	243.4	24.38	10.986		
3,600.0	3,596.7	3,583.5	3,574.1	12.7	12.7	122.47	176.1	162.4	278.7	253.6	25.10	11.104		
3,700.0	3,696.5	3,684.6	3,675.0	13.1	13.1	123.40	180.4	167.8	289.2	263.4	25.83	11.197		
3,800.0	3,796.2	3,781.8	3,772.0	13.4	13.4	124.35	184.1	173.6	300.2	273.6	26.53	11.314		
3,900.0	3,896.0	3,891.8	3,881.8	13.8	13.8	125.42	187.0	178.5	309.3	281.9	27.32	11.321		
4,000.0	3,995.7	3,994.4	3,984.3	14.2	14.2	126.25	189.5	180.7	316.4	288.3	28.05	11.279		
4,100.0	4,095.5	4,094.7	4,084.6	14.5	14.6	127.04	191.7	182.6	323.1	294.4	28.77	11.230		
4,200.0	4,195.2	4,195.2	4,185.0	14.9	14.9	127.82	193.6	184.3	329.7	300.2	29.50	11.179		
4,300.0	4,295.0	4,296.1	4,285.9	15.3	15.3	128.60	195.4	185.8	336.1	305.9	30.22	11.121		
4,400.0	4,394.8	4,397.7	4,387.5	15.6	15.6	129.32	197.1	186.8	342.1	311.1	30.95	11.053		
4,500.0	4,494.5	4,499.5	4,489.3	16.0	16.0	130.04	198.5	187.3	347.5	315.8	31.67	10.970		
4,600.0	4,594.3	4,600.2	4,590.0	16.4	16.4	130.76	199.6	187.4	352.5	320.1	32.39	10.881		
4,700.0	4,694.0	4,699.6	4,689.4	16.7	16.7	131.45	200.7	187.5	357.5	324.4	33.11	10.796		
4,800.0	4,793.8	4,799.5	4,789.3	17.1	17.1	132.09	202.0	187.5	362.6	328.8	33.83	10.718		
4,900.0	4,893.5	4,899.7	4,889.5	17.5	17.4	132.72	203.2	187.5	367.7	333.1	34.55	10.642		
5,000.0	4,993.3	4,999.1	4,988.8	17.9	17.8	133.38	204.1	187.6	372.8	337.6	35.27	10.572		
5,100.0	5,093.0	5,099.4	5,089.2	18.2	18.1	134.07	204.8	187.7	378.0	342.0	35.99	10.503		
5,200.0	5,192.8	5,198.9	5,188.7	18.6	18.5	134.72	205.5	187.8	383.1	346.4	36.70	10.439		
5,300.0	5,292.5	5,297.7	5,287.4	19.0	18.8	135.39	205.9	188.1	388.5	351.1	37.41	10.384		
5,400.0	5,392.3	5,396.2	5,385.9	19.3	19.1	136.08	206.2	188.7	394.3	356.2	38.12	10.342		
5,500.0	5,492.0	5,495.9	5,485.6	19.7	19.5	136.73	206.7	189.5	400.2	361.3	38.84	10.304		
5,600.0	5,591.8	5,595.0	5,584.7	20.1	19.8	137.32	207.5	190.2	406.3	366.7	39.55	10.272		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #114H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 174-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		
5,700.0	5,691.6	5,695.1	5,684.9	20.4	20.2	137.90	208.3	191.1	412.5	372.2	40.27	10.243		
5,800.0	5,791.3	5,796.7	5,786.4	20.8	20.5	138.50	208.8	191.7	418.4	377.4	40.99	10.206		
5,900.0	5,891.1	5,897.3	5,887.0	21.2	20.9	139.14	208.8	192.0	424.0	382.3	41.70	10.166		
6,000.0	5,990.8	5,997.9	5,987.6	21.6	21.2	139.73	209.1	192.2	429.5	387.0	42.42	10.125		
6,100.0	6,090.6	6,097.5	6,087.3	21.9	21.6	140.29	209.3	192.1	434.9	391.7	43.13	10.082		
6,200.0	6,190.3	6,197.4	6,187.1	22.3	21.9	140.82	209.8	192.1	440.4	396.5	43.85	10.043		
6,300.0	6,290.1	6,297.9	6,287.6	22.7	22.3	141.35	210.1	192.1	445.8	401.2	44.56	10.005		
6,400.0	6,389.8	6,397.2	6,386.9	23.0	22.6	141.90	210.1	192.0	451.2	405.9	45.26	9.969		
6,500.0	6,489.6	6,498.3	6,488.0	23.4	23.0	142.44	210.1	191.8	456.6	410.6	45.97	9.933		
6,600.0	6,589.3	6,599.0	6,588.7	23.8	23.3	142.98	210.1	191.4	461.8	415.1	46.67	9.895		
6,700.0	6,689.1	6,699.6	6,689.3	24.2	23.6	143.51	209.9	190.8	466.8	419.4	47.36	9.856		
6,800.0	6,788.8	6,798.5	6,788.2	24.5	24.0	144.03	209.7	190.3	471.9	423.8	48.05	9.820		
6,900.0	6,888.6	6,899.5	6,889.3	24.9	24.3	144.58	209.3	189.6	476.9	428.2	48.75	9.783		
7,000.0	6,988.4	6,999.7	6,989.4	25.3	24.6	145.13	208.6	188.9	481.8	432.4	49.44	9.746		
7,100.0	7,088.1	7,098.6	7,088.4	25.7	25.0	145.70	207.7	188.2	486.9	436.8	50.13	9.713		
7,200.0	7,187.9	7,197.7	7,187.4	26.0	25.3	146.27	206.6	187.7	492.1	441.3	50.82	9.684		
7,300.0	7,287.6	7,296.3	7,286.0	26.4	25.6	146.87	205.3	187.4	497.6	446.1	51.50	9.662		
7,400.0	7,387.4	7,396.1	7,385.8	26.8	25.9	147.47	203.8	187.2	503.2	451.0	52.19	9.641		
7,500.0	7,487.1	7,496.1	7,485.7	27.1	26.3	148.06	202.4	187.0	508.9	456.0	52.88	9.622		
7,600.0	7,586.9	7,596.8	7,586.4	27.5	26.6	148.64	200.9	186.6	514.4	460.8	53.58	9.601		
7,700.0	7,686.6	7,696.4	7,686.0	27.9	26.9	149.21	199.4	186.1	519.9	465.6	54.27	9.580		
7,800.0	7,786.4	7,797.2	7,786.8	28.3	27.3	149.81	197.5	185.6	525.5	470.5	54.97	9.560		
7,900.0	7,886.1	7,894.1	7,883.7	28.6	27.6	150.38	195.6	185.1	531.0	475.4	55.65	9.543		
7,973.2	7,959.2	7,965.7	7,955.3	28.9	27.8	150.68	195.2	185.2	535.6	479.4	56.15	9.538		
8,000.0	7,985.9	7,992.6	7,982.2	29.0	27.9	150.79	195.3	185.2	537.2	480.9	56.34	9.535		
8,100.0	8,085.8	8,095.3	8,084.9	29.4	28.3	151.05	195.5	185.2	541.5	484.4	57.06	9.490		
8,200.0	8,185.7	8,197.7	8,187.3	29.7	28.6	151.24	195.1	184.5	543.0	485.2	57.77	9.399		
8,241.3	8,227.0	8,237.7	8,227.2	29.9	28.8	91.33	194.8	184.2	542.8	484.8	58.05	9.352		
8,300.0	8,285.7	8,294.0	8,283.6	30.1	28.9	91.34	194.7	184.0	542.6	484.2	58.44	9.285		
8,400.0	8,385.7	8,393.1	8,382.7	30.4	29.3	91.32	194.8	183.9	542.6	483.4	59.14	9.174		
8,400.2	8,385.9	8,393.3	8,382.9	30.4	29.3	91.32	194.8	183.9	542.6	483.4	59.14	9.174		
8,500.0	8,485.7	8,486.0	8,475.6	30.8	29.6	91.34	194.7	184.5	543.2	483.4	59.80	9.084		
8,600.0	8,585.7	8,581.6	8,571.2	31.1	30.0	91.37	194.4	186.2	544.9	484.5	60.47	9.012		
8,700.0	8,685.7	8,685.3	8,674.8	31.5	30.3	91.37	194.3	188.2	546.9	485.7	61.19	8.937		
8,800.0	8,785.7	8,795.5	8,785.0	31.8	30.7	91.55	192.6	188.7	547.4	485.5	61.93	8.838		
8,894.1	8,879.9	8,889.4	8,877.6	32.1	31.0	93.05	178.3	187.8	547.1	484.5	62.55	8.746		
8,900.0	8,885.7	8,892.0	8,880.2	32.2	31.0	93.12	177.6	187.8	547.1	484.5	62.57	8.744		
9,000.0	8,985.7	8,965.6	8,949.9	32.5	31.2	95.58	154.0	188.1	550.2	487.2	62.98	8.736		
9,100.0	9,085.7	9,026.0	9,004.1	32.8	31.3	98.27	127.7	190.2	560.0	497.1	62.95	8.896		
9,200.0	9,185.7	9,079.5	9,049.4	33.2	31.5	101.05	99.5	194.1	578.6	516.2	62.38	9.275		
9,300.0	9,285.7	9,130.9	9,090.8	33.5	31.6	103.89	69.4	199.4	605.9	544.6	61.36	9.875		
9,400.0	9,385.7	9,177.3	9,126.2	33.9	31.7	106.50	40.3	205.6	641.8	581.9	59.91	10.713		
9,500.0	9,485.7	9,212.0	9,151.5	34.2	31.8	108.48	17.0	211.0	685.7	627.8	57.91	11.842		
9,600.0	9,585.7	9,264.0	9,187.2	34.6	31.9	111.45	-19.7	219.6	736.4	679.9	56.48	13.038		
9,700.0	9,685.7	9,306.0	9,214.2	34.9	32.0	113.83	-51.1	226.7	792.9	738.2	54.76	14.481		
9,800.0	9,785.7	9,344.8	9,237.8	35.3	32.2	116.00	-81.2	233.1	854.5	801.4	53.06	16.104		
9,900.0	9,885.7	9,382.1	9,259.5	35.6	32.3	118.05	-111.1	239.0	920.3	868.8	51.48	17.876		
10,000.0	9,985.7	9,400.0	9,269.4	36.0	32.3	119.02	-125.6	241.8	990.0	940.6	49.44	20.026		
10,100.0	10,085.7	9,431.9	9,286.2	36.3	32.5	120.73	-152.3	246.7	1,063.1	1,015.0	48.07	22.115		
10,200.0	10,185.7	9,450.4	9,295.2	36.7	32.5	121.71	-168.2	249.5	1,139.5	1,093.1	46.48	24.517		
10,300.0	10,285.7	9,466.9	9,302.8	37.0	32.6	122.57	-182.7	252.1	1,218.7	1,173.7	45.04	27.060		
10,400.0	10,385.7	9,495.0	9,314.7	37.4	32.7	124.02	-207.7	256.4	1,300.4	1,256.3	44.10	29.488		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #114H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 174-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,500.0	10,485.7	9,495.0	9,314.7	37.7	32.7	124.02	-207.7	256.4	1,383.7	1,341.2	42.59	32.492		
10,600.0	10,585.7	9,495.0	9,314.7	38.1	32.7	124.02	-207.7	256.4	1,469.1	1,427.9	41.28	35.592		
10,700.0	10,685.7	9,526.9	9,327.0	38.4	32.8	125.64	-236.8	261.2	1,555.4	1,514.6	40.88	38.046		
10,800.0	10,785.7	9,540.9	9,332.0	38.8	32.9	126.33	-249.7	263.2	1,643.2	1,603.0	40.18	40.899		
10,900.0	10,885.7	9,553.8	9,336.4	39.1	32.9	126.96	-261.7	265.0	1,732.0	1,692.4	39.56	43.779		
11,000.0	10,985.7	9,590.0	9,347.9	39.5	33.1	128.69	-295.7	269.7	1,822.2	1,782.6	39.52	46.109		
11,100.0	11,085.7	9,590.0	9,347.9	39.8	33.1	128.69	-295.7	269.7	1,912.4	1,873.6	38.83	49.251		
11,200.0	11,185.7	9,590.0	9,347.9	40.2	33.1	128.69	-295.7	269.7	2,003.5	1,965.3	38.24	52.389		
11,300.0	11,285.7	9,590.0	9,347.9	40.5	33.1	128.69	-295.7	269.7	2,095.5	2,057.8	37.75	55.509		
11,400.0	11,385.7	9,590.0	9,347.9	40.9	33.1	128.69	-295.7	269.7	2,188.2	2,150.8	37.34	58.601		
11,500.0	11,485.7	9,590.0	9,347.9	41.2	33.1	128.69	-295.7	269.7	2,281.5	2,244.5	37.00	61.658		
11,600.0	11,585.7	9,621.9	9,356.9	41.6	33.2	130.16	-326.1	273.6	2,374.6	2,337.4	37.19	63.841		
11,700.0	11,685.7	9,629.4	9,358.8	42.0	33.2	130.50	-333.2	274.4	2,468.5	2,431.4	37.06	66.605		
11,800.0	11,785.7	9,636.3	9,360.5	42.3	33.3	130.82	-339.9	275.2	2,562.8	2,525.9	36.97	69.328		
11,900.0	11,885.7	9,642.9	9,362.1	42.7	33.3	131.11	-346.2	275.9	2,657.5	2,620.6	36.91	72.007		
11,941.3	11,927.0	9,645.5	9,362.7	42.8	33.3	131.23	-348.7	276.2	2,696.7	2,659.8	36.89	73.099		
11,950.0	11,935.7	9,646.0	9,362.9	42.8	33.3	-46.40	-349.3	276.2	2,705.0	2,668.1	36.89	73.330		
12,000.0	11,985.6	9,649.8	9,363.8	43.0	33.3	-37.33	-352.9	276.6	2,751.8	2,715.0	36.86	74.659		
12,050.0	12,035.1	9,684.0	9,371.0	43.1	33.5	-30.42	-386.2	279.9	2,798.1	2,760.9	37.17	75.279		
12,100.0	12,083.7	9,684.0	9,371.0	43.3	33.5	-26.07	-386.2	279.9	2,842.0	2,804.9	37.04	76.733		
12,150.0	12,131.2	9,684.0	9,371.0	43.4	33.5	-22.82	-386.2	279.9	2,884.1	2,847.2	36.89	78.186		
12,200.0	12,177.0	9,684.0	9,371.0	43.6	33.5	-20.34	-386.2	279.9	2,924.3	2,887.6	36.72	79.627		
12,250.0	12,221.0	9,684.0	9,371.0	43.7	33.5	-18.41	-386.2	279.9	2,962.2	2,925.7	36.55	81.043		
12,300.0	12,262.8	9,684.0	9,371.0	43.8	33.5	-16.88	-386.2	279.9	2,997.8	2,961.4	36.37	82.420		
12,350.0	12,301.9	9,684.0	9,371.0	43.9	33.5	-15.65	-386.2	279.9	3,030.7	2,994.5	36.19	83.744		
12,400.0	12,338.3	9,684.0	9,371.0	43.9	33.5	-14.66	-386.2	279.9	3,060.9	3,024.9	36.01	84.999		
12,450.0	12,371.5	9,684.0	9,371.0	44.0	33.5	-13.86	-386.2	279.9	3,088.1	3,052.3	35.84	86.168		
12,500.0	12,401.3	9,684.0	9,371.0	44.1	33.5	-13.21	-386.2	279.9	3,112.4	3,076.7	35.68	87.235		
12,550.0	12,427.5	9,684.0	9,371.0	44.1	33.5	-12.69	-386.2	279.9	3,133.4	3,097.9	35.53	88.181		
12,600.0	12,449.9	9,684.0	9,371.0	44.2	33.5	-12.28	-386.2	279.9	3,151.3	3,115.9	35.41	88.989		
12,650.0	12,468.3	9,728.4	9,377.3	44.3	33.7	-11.98	-430.0	283.1	3,163.4	3,127.8	35.60	88.856		
12,700.0	12,482.6	9,734.8	9,377.8	44.4	33.7	-11.76	-436.4	283.4	3,173.8	3,138.3	35.55	89.286		
12,750.0	12,492.7	9,778.0	9,379.0	44.5	33.9	-11.61	-479.5	284.4	3,182.3	3,146.6	35.71	89.114		
12,800.0	12,498.5	9,778.0	9,379.0	44.6	33.9	-11.55	-479.5	284.4	3,185.1	3,149.4	35.66	89.326		
12,841.3	12,500.0	9,778.0	9,379.0	44.7	33.9	-11.56	-479.5	284.4	3,184.7	3,149.1	35.64	89.357		
12,900.0	12,500.0	9,778.0	9,379.0	44.9	33.9	-11.56	-479.5	284.4	3,183.1	3,147.4	35.66	89.251		
12,960.0	12,500.0	9,778.0	9,379.0	45.1	33.9	-11.56	-479.5	284.4	3,182.5	3,146.7	35.75	89.018		
13,000.0	12,500.0	9,778.0	9,379.0	45.2	33.9	-11.56	-479.5	284.4	3,182.7	3,146.9	35.84	88.814		
13,100.0	12,500.0	9,820.2	9,377.9	45.6	34.1	-11.55	-521.7	284.7	3,185.1	3,148.9	36.23	87.916		
13,200.0	12,500.0	9,881.6	9,375.7	46.0	34.4	-11.56	-583.1	285.8	3,188.8	3,152.1	36.72	86.832		
13,300.0	12,500.0	9,968.1	9,372.3	46.5	34.9	-11.60	-669.3	289.3	3,193.3	3,156.0	37.33	85.531		
13,400.0	12,500.0	10,293.2	9,373.1	47.0	37.2	-11.88	-993.8	307.7	3,193.1	3,154.2	38.97	81.930		
13,500.0	12,500.0	10,347.0	9,373.9	47.6	37.6	-11.90	-1,047.5	309.3	3,191.8	3,152.2	39.56	80.688		
13,528.2	12,500.0	10,347.0	9,373.9	47.8	37.6	-11.90	-1,047.5	309.3	3,191.7	3,152.0	39.66	80.468		
13,600.0	12,500.0	10,376.8	9,373.7	48.2	37.9	-11.91	-1,077.3	309.7	3,192.2	3,152.1	40.09	79.617		
13,700.0	12,500.0	10,441.0	9,372.2	48.9	38.4	-11.91	-1,141.5	310.8	3,194.5	3,153.7	40.83	78.233		
13,800.0	12,500.0	10,573.3	9,369.4	49.6	39.6	-11.93	-1,273.7	313.6	3,196.9	3,155.0	41.91	76.287		
13,900.0	12,500.0	10,673.7	9,368.3	50.4	40.6	-11.95	-1,374.1	315.6	3,198.3	3,155.4	42.90	74.560		
14,000.0	12,500.0	10,893.0	9,369.3	51.2	42.8	-12.03	-1,593.3	321.5	3,198.7	3,154.1	44.60	71.720		
14,100.0	12,500.0	10,963.0	9,371.2	52.0	43.6	-12.06	-1,663.3	323.7	3,196.6	3,151.1	45.52	70.228		
14,188.9	12,500.0	11,008.0	9,371.5	52.8	44.1	-12.06	-1,708.2	323.9	3,196.0	3,149.7	46.25	69.102		
14,200.0	12,500.0	11,008.0	9,371.5	52.9	44.1	-12.06	-1,708.2	323.9	3,196.0	3,149.7	46.31	69.009		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #114H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 174-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	12,500.0	11,047.0	9,370.9	53.8	44.5	-12.05	-1,747.2	323.4	3,197.2	3,150.1	47.12	67.854		
14,400.0	12,500.0	11,103.0	9,368.3	54.8	45.1	-12.00	-1,803.1	322.0	3,200.7	3,152.7	48.03	66.634		
14,500.0	12,500.0	11,286.3	9,361.4	55.8	47.2	-11.90	-1,986.3	319.1	3,204.6	3,155.0	49.58	64.632		
14,600.0	12,500.0	14,600.0	9,366.6	56.8	89.1	-11.95	-2,269.7	322.7	3,203.2	3,129.8	73.36	43.664		
14,700.0	12,500.0	11,618.1	9,369.1	57.8	51.3	-11.98	-2,317.8	324.3	3,199.0	3,146.1	52.90	60.473		
14,800.0	12,500.0	11,670.0	9,370.1	58.9	52.0	-12.00	-2,369.6	325.8	3,197.2	3,143.3	53.88	59.341		
14,900.0	12,500.0	14,900.0	9,371.1	60.0	94.0	-12.04	-2,447.0	328.2	3,196.2	3,118.5	77.76	41.103		
14,945.4	12,500.0	11,765.0	9,371.4	60.5	53.2	-12.05	-2,464.6	328.8	3,196.0	3,140.5	55.48	57.604		
15,000.0	12,500.0	11,765.0	9,371.4	61.1	53.2	-12.05	-2,464.6	328.8	3,196.4	3,140.5	55.87	57.208		
15,100.0	12,500.0	11,822.7	9,371.3	62.3	54.0	-12.06	-2,522.3	329.9	3,197.7	3,140.7	56.96	56.135		
15,200.0	12,500.0	11,860.0	9,369.4	63.5	54.5	-12.04	-2,559.5	329.8	3,201.9	3,144.0	57.95	55.257		
15,300.0	12,500.0	11,986.0	9,362.5	64.7	56.2	-11.98	-2,685.3	328.6	3,207.0	3,147.6	59.40	53.995		
15,400.0	12,500.0	12,297.6	9,361.2	65.9	60.4	-11.92	-2,996.8	327.6	3,205.8	3,143.8	62.01	51.693		
15,500.0	12,500.0	12,327.0	9,361.7	67.1	60.8	-11.91	-3,026.1	327.0	3,204.2	3,141.2	62.95	50.904		
15,537.5	12,500.0	12,357.6	9,361.9	67.6	61.2	-11.89	-3,056.7	326.4	3,203.8	3,140.4	63.42	50.519		
15,600.0	12,500.0	12,377.0	9,361.6	68.3	61.5	-11.88	-3,076.1	326.0	3,204.3	3,140.2	64.02	50.051		
15,700.0	12,500.0	12,421.0	9,360.1	69.6	62.1	-11.85	-3,120.1	325.1	3,206.8	3,141.7	65.07	49.280		
15,800.0	12,500.0	12,639.2	9,358.6	70.9	65.2	-11.92	-3,338.1	331.0	3,207.7	3,140.4	67.28	47.674		
15,831.6	12,500.0	12,651.9	9,358.7	71.3	65.4	-11.93	-3,350.8	331.5	3,207.6	3,139.9	67.62	47.433		
15,900.0	12,500.0	12,679.4	9,358.7	72.2	65.8	-11.94	-3,378.3	332.4	3,208.0	3,139.6	68.36	46.928		
16,000.0	12,500.0	12,924.4	9,361.0	73.5	69.3	-11.97	-3,623.2	335.3	3,207.4	3,136.6	70.77	45.323		
16,100.0	12,500.0	12,988.0	9,362.0	74.8	70.2	-11.95	-3,686.7	334.7	3,205.1	3,133.1	71.98	44.529		
16,200.0	12,500.0	13,117.9	9,365.3	76.2	72.1	-11.94	-3,816.6	334.3	3,202.4	3,128.8	73.64	43.489		
16,300.0	12,500.0	13,176.0	9,366.6	77.5	73.0	-11.94	-3,874.7	334.2	3,200.1	3,125.2	74.84	42.760		
16,399.8	12,500.0	13,220.3	9,366.8	78.9	73.7	-11.93	-3,919.0	334.0	3,199.2	3,123.3	75.96	42.120		
16,400.0	12,500.0	13,220.4	9,366.8	78.9	73.7	-11.93	-3,919.1	334.0	3,199.2	3,123.3	75.96	42.119		
16,500.0	12,500.0	16,500.0	9,366.3	80.2	122.4	-11.92	-4,019.4	334.3	3,199.7	3,097.2	102.49	31.220		
16,600.0	12,500.0	13,453.0	9,368.1	81.6	77.1	-11.97	-4,151.6	337.8	3,198.6	3,119.4	79.20	40.386		
16,658.9	12,500.0	13,477.1	9,368.3	82.4	77.5	-11.98	-4,175.6	338.6	3,198.3	3,118.4	79.87	40.043		
16,700.0	12,500.0	13,494.3	9,368.3	83.0	77.7	-11.99	-4,192.8	339.1	3,198.5	3,118.2	80.34	39.810		
16,800.0	12,500.0	13,544.0	9,367.6	84.4	78.5	-12.00	-4,242.5	340.6	3,200.3	3,118.7	81.54	39.246		
16,900.0	12,500.0	13,580.7	9,366.4	85.8	79.0	-12.01	-4,279.2	341.6	3,203.7	3,121.1	82.65	38.762		
17,000.0	12,500.0	13,635.0	9,363.5	87.2	79.9	-12.02	-4,333.4	342.8	3,209.0	3,125.1	83.87	38.259		
17,100.0	12,500.0	13,684.0	9,360.3	88.7	80.6	-12.02	-4,382.2	344.1	3,215.7	3,130.7	85.06	37.805		
17,200.0	12,500.0	14,098.0	9,353.5	90.1	86.9	-12.12	-4,795.7	354.5	3,216.1	3,127.3	88.77	36.228		
17,300.0	12,500.0	14,254.5	9,359.3	91.5	89.3	-12.16	-4,952.1	356.4	3,212.4	3,121.7	90.72	35.411		
17,400.0	12,500.0	14,355.2	9,363.5	93.0	90.9	-12.17	-5,052.7	357.4	3,208.4	3,116.1	92.29	34.763		
17,500.0	12,500.0	14,434.9	9,366.8	94.4	92.1	-12.18	-5,132.3	357.8	3,204.4	3,110.6	93.73	34.187		
17,600.0	12,500.0	14,499.6	9,368.7	95.9	93.1	-12.19	-5,197.0	358.1	3,201.4	3,106.3	95.07	33.673		
17,700.0	12,500.0	14,561.1	9,369.8	97.4	94.1	-12.19	-5,258.5	358.5	3,199.5	3,103.1	96.39	33.193		
17,778.0	12,500.0	14,599.7	9,370.1	98.5	94.7	-12.19	-5,297.0	358.9	3,199.0	3,101.7	97.36	32.858		
17,800.0	12,500.0	14,609.5	9,370.1	98.8	94.8	-12.19	-5,306.8	358.9	3,199.1	3,101.4	97.62	32.770		
17,900.0	12,500.0	14,669.0	9,369.1	100.3	95.7	-12.18	-5,366.4	359.1	3,200.4	3,101.5	98.91	32.356		
18,000.0	12,500.0	14,709.8	9,367.7	101.8	96.4	-12.17	-5,407.2	359.0	3,203.2	3,103.1	100.06	32.011		
18,100.0	12,500.0	14,774.8	9,364.9	103.3	97.4	-12.16	-5,472.1	359.2	3,207.2	3,105.9	101.37	31.638		
18,200.0	12,500.0	15,084.6	9,365.3	104.8	102.2	-12.22	-5,781.5	365.3	3,204.9	3,100.5	104.46	30.682		
18,300.0	12,500.0	15,140.0	9,365.6	106.3	103.1	-12.23	-5,836.9	366.0	3,204.2	3,098.4	105.76	30.296		
18,318.2	12,500.0	15,140.0	9,365.6	106.6	103.1	-12.23	-5,836.9	366.0	3,204.1	3,098.2	105.93	30.247		
18,400.0	12,500.0	15,190.6	9,365.0	107.8	103.9	-12.23	-5,887.5	366.4	3,204.9	3,097.8	107.02	29.947		
18,500.0	12,500.0	18,500.0	9,364.9	109.3	155.9	-12.25	-6,019.3	368.7	3,205.1	3,070.2	134.84	23.769		
18,545.3	12,500.0	15,367.4	9,365.1	110.0	106.7	-12.26	-6,064.3	369.5	3,204.9	3,095.3	109.58	29.247		
18,600.0	12,500.0	15,401.2	9,365.0	110.8	107.2	-12.26	-6,098.1	369.8	3,205.1	3,094.8	110.32	29.054		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #114H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 174-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,700.0	12,500.0	15,465.8	9,364.2	112.3	108.2	-12.25	-6,162.7	370.1	3,206.3	3,094.7	111.66	28.714		
18,800.0	12,500.0	15,596.8	9,361.8	113.9	110.3	-12.25	-6,293.7	371.7	3,208.4	3,094.9	113.48	28.273		
18,900.0	12,500.0	15,731.4	9,362.6	115.4	112.4	-12.29	-6,428.3	374.3	3,207.8	3,092.5	115.35	27.808		
18,917.7	12,500.0	15,739.8	9,362.7	115.6	112.5	-12.29	-6,436.6	374.6	3,207.8	3,092.2	115.58	27.754		
19,000.0	12,500.0	15,798.0	9,362.4	116.9	113.4	-12.31	-6,494.8	376.3	3,208.5	3,091.7	116.77	27.478		
19,100.0	12,500.0	15,900.8	9,361.8	118.4	115.1	-12.38	-6,597.5	381.0	3,209.8	3,091.3	118.48	27.092		
19,200.0	12,500.0	15,954.8	9,361.3	120.0	115.9	-12.40	-6,651.4	383.0	3,211.3	3,091.5	119.81	26.804		
19,300.0	12,500.0	16,211.0	9,364.0	121.5	120.0	-12.71	-6,906.6	401.9	3,212.9	3,090.0	122.86	26.150		
19,400.0	12,500.0	16,269.0	9,365.1	123.0	121.0	-12.74	-6,964.6	403.9	3,211.2	3,087.0	124.27	25.841		
19,445.8	12,500.0	16,269.0	9,365.1	123.8	121.0	-12.74	-6,964.6	403.9	3,210.9	3,086.2	124.71	25.746		
19,500.0	12,500.0	16,297.8	9,364.9	124.6	121.4	-12.74	-6,993.3	404.0	3,211.2	3,085.7	125.42	25.604		
19,600.0	12,500.0	16,486.9	9,362.7	126.1	124.4	-12.54	-7,182.2	394.8	3,211.5	3,084.2	127.36	25.217		
19,700.0	12,500.0	16,551.0	9,363.1	127.7	125.4	-12.53	-7,246.3	394.3	3,210.5	3,081.7	128.73	24.940		
19,727.4	12,500.0	16,551.0	9,363.1	128.1	125.4	-12.53	-7,246.3	394.3	3,210.3	3,081.3	128.99	24.888		
19,800.0	12,500.0	16,592.5	9,362.9	129.2	126.1	-12.53	-7,287.8	395.1	3,210.7	3,080.8	129.97	24.703		
19,900.0	12,500.0	16,657.4	9,362.4	130.8	127.1	-12.58	-7,352.6	398.0	3,212.3	3,080.9	131.41	24.444		
20,000.0	12,500.0	16,737.0	9,360.5	132.3	128.4	-12.57	-7,432.2	398.7	3,214.7	3,081.8	132.88	24.192		
20,100.0	12,500.0	16,861.9	9,357.7	133.9	130.4	-12.51	-7,557.0	397.0	3,216.3	3,081.7	134.61	23.893		
20,200.0	12,500.0	16,926.0	9,355.7	135.5	131.4	-12.51	-7,621.1	397.5	3,219.1	3,083.1	135.97	23.676		
20,300.0	12,500.0	17,077.5	9,352.7	137.0	133.8	-12.46	-7,772.5	397.0	3,220.6	3,082.6	137.91	23.352		
20,400.0	12,500.0	17,248.2	9,351.6	138.6	136.5	-12.39	-7,943.2	394.3	3,220.4	3,080.5	139.91	23.018		
20,448.1	12,500.0	17,272.0	9,351.5	139.3	136.9	-12.37	-7,967.0	393.4	3,220.3	3,079.8	140.51	22.919		
20,500.0	12,500.0	17,302.0	9,351.0	140.1	137.4	-12.34	-7,996.9	392.1	3,220.5	3,079.3	141.17	22.813		
20,600.0	12,500.0	17,346.2	9,349.8	141.7	138.1	-12.30	-8,041.0	390.1	3,222.1	3,079.8	142.33	22.638		
20,700.0	12,500.0	17,707.7	9,358.1	143.3	143.9	-12.22	-8,401.8	386.6	3,216.9	3,071.5	145.47	22.115		
20,800.0	12,500.0	17,774.0	9,361.1	144.9	144.9	-12.23	-8,468.1	387.1	3,212.2	3,065.3	146.95	21.860		
20,900.0	12,500.0	17,809.2	9,362.2	146.4	145.5	-12.24	-8,503.2	387.5	3,208.8	3,060.6	148.23	21.648		
21,000.0	12,500.0	17,872.8	9,363.7	148.0	146.5	-12.26	-8,566.8	388.7	3,206.8	3,057.1	149.67	21.425		
21,100.0	12,500.0	17,959.4	9,365.0	149.6	147.9	-12.28	-8,653.4	390.3	3,205.5	3,054.2	151.26	21.191		
21,200.0	12,500.0	18,097.9	9,369.0	151.2	150.2	-12.33	-8,791.8	393.3	3,202.7	3,049.4	153.22	20.902		
21,300.0	12,500.0	18,151.0	9,369.8	152.7	151.0	-12.34	-8,844.9	394.0	3,201.2	3,046.6	154.59	20.708		
21,326.0	12,500.0	18,151.0	9,369.8	153.2	151.0	-12.34	-8,844.9	394.0	3,201.1	3,046.2	154.85	20.673		
21,400.0	12,500.0	18,186.2	9,369.7	154.3	151.6	-12.34	-8,880.1	394.4	3,201.5	3,045.7	155.79	20.549		
21,500.0	12,500.0	18,560.6	9,381.2	155.9	157.6	-12.36	-9,253.9	395.9	3,198.3	3,039.3	159.03	20.112		
21,600.0	12,500.0	18,622.0	9,384.3	157.5	158.6	-12.33	-9,315.2	394.2	3,192.3	3,031.8	160.46	19.895		
21,700.0	12,500.0	18,646.4	9,385.1	159.1	159.0	-12.32	-9,339.5	393.4	3,187.6	3,025.9	161.70	19.713		
21,800.0	12,500.0	18,739.5	9,387.8	160.7	160.5	-12.27	-9,432.6	390.9	3,184.0	3,020.7	163.23	19.506		
21,900.0	12,500.0	18,811.0	9,390.1	162.3	161.7	-12.25	-9,504.0	389.4	3,180.4	3,015.7	164.67	19.314		
22,000.0	12,500.0	18,858.8	9,391.1	163.8	162.4	-12.24	-9,551.9	389.0	3,178.2	3,012.3	165.98	19.149		
22,050.0	12,500.0	18,875.9	9,391.2	164.6	162.7	-12.24	-9,568.9	389.0	3,178.0	3,011.4	166.58	19.078		
22,100.0	12,500.0	18,904.0	9,391.0	165.4	163.2	-12.24	-9,597.0	389.3	3,178.3	3,011.0	167.26	19.003		
22,200.0	12,500.0	18,997.1	9,390.1	167.0	164.7	-12.27	-9,690.0	392.0	3,179.6	3,010.7	168.91	18.824		
22,300.0	12,500.0	19,034.2	9,389.6	168.6	165.3	-12.28	-9,727.1	393.1	3,181.5	3,011.4	170.11	18.703		
22,400.0	12,500.0	19,093.0	9,386.7	170.2	166.2	-12.26	-9,785.9	392.8	3,185.6	3,014.2	171.37	18.588		
22,500.0	12,500.0	19,501.8	9,387.7	171.8	172.8	-12.11	-10,194.0	387.2	3,184.8	3,010.1	174.75	18.225		
22,600.0	12,500.0	19,535.0	9,389.3	173.4	173.3	-12.11	-10,227.2	387.6	3,180.4	3,004.3	176.08	18.062		
22,700.0	12,500.0	19,589.6	9,390.7	175.0	174.2	-12.14	-10,281.7	389.2	3,178.0	3,000.4	177.53	17.901		
22,800.0	12,500.0	19,691.8	9,394.2	176.6	175.9	-12.22	-10,383.7	393.6	3,175.3	2,996.0	179.34	17.706		
22,900.0	12,500.0	19,753.0	9,395.2	178.2	176.9	-12.25	-10,444.9	395.8	3,174.2	2,993.4	180.82	17.555		
22,926.0	12,500.0	19,753.0	9,395.2	178.6	176.9	-12.25	-10,444.9	395.8	3,174.1	2,993.0	181.08	17.529		
23,000.0	12,500.0	19,814.8	9,395.4	179.8	177.9	-12.29	-10,506.6	398.1	3,174.3	2,992.0	182.28	17.414		
23,100.0	12,500.0	19,872.9	9,395.5	181.4	178.9	-12.32	-10,564.7	400.7	3,175.2	2,991.4	183.71	17.284		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Voni - Voni Fed Com #114H - Wellbore #1 - Actual		Offset Site Error:		0.0 usft	
Survey Program:													174-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						
23,200.0	12,500.0	19,913.2	9,394.7	183.0	179.5	-12.35	-10,605.0	402.5	3,177.8	2,992.9	184.93	17.184						
23,300.0	12,500.0	19,940.0	9,393.8	184.6	180.0	-12.36	-10,631.7	403.7	3,182.4	2,996.4	185.96	17.113						
23,400.0	12,500.0	20,005.7	9,390.2	186.2	181.0	-12.38	-10,697.2	406.2	3,188.5	3,001.1	187.33	17.021						
23,500.0	12,500.0	20,254.3	9,380.7	187.8	185.1	-12.38	-10,945.6	410.2	3,191.3	3,001.0	190.31	16.769						
23,600.0	12,500.0	20,597.0	9,380.2	189.4	190.6	-12.15	-11,287.7	399.4	3,192.6	2,999.7	192.95	16.547						
23,700.0	12,500.0	20,656.7	9,383.4	191.0	191.6	-12.12	-11,347.3	397.8	3,187.2	2,992.8	194.37	16.398						
23,800.0	12,500.0	20,690.0	9,384.2	192.6	192.1	-12.11	-11,380.6	397.3	3,184.2	2,988.6	195.65	16.275						
23,900.0	12,500.0	20,799.4	9,386.5	194.3	193.9	-12.12	-11,489.9	398.1	3,182.2	2,984.8	197.37	16.123						
23,998.2	12,500.0	20,826.6	9,386.7	195.8	194.3	-12.13	-11,517.1	398.5	3,181.3	2,982.7	198.57	16.021						
24,000.0	12,500.0	20,827.3	9,386.7	195.9	194.3	-12.13	-11,517.8	398.5	3,181.3	2,982.7	198.59	16.019						
24,100.0	12,500.0	20,878.0	9,386.1	197.5	195.2	-12.13	-11,568.5	399.5	3,182.3	2,982.4	199.91	15.919						
24,200.0	12,500.0	20,923.1	9,384.9	199.1	195.9	-12.14	-11,613.6	400.5	3,185.0	2,983.9	201.14	15.835						
24,300.0	12,500.0	21,018.3	9,381.7	200.7	197.5	-12.16	-11,708.7	403.1	3,188.7	2,985.9	202.80	15.723						
24,400.0	12,500.0	21,231.0	9,380.1	202.3	200.9	-12.26	-11,921.2	410.5	3,189.7	2,984.1	205.54	15.519						
24,500.0	12,500.0	21,786.6	9,420.5	203.9	210.0	-12.45	-12,474.7	417.0	3,183.5	2,974.5	209.01	15.232						
24,600.0	12,500.0	21,823.0	9,426.0	205.5	210.6	-12.49	-12,510.7	418.1	3,169.8	2,959.0	210.75	15.040						
24,700.0	12,500.0	21,823.0	9,426.0	207.1	210.6	-12.49	-12,510.7	418.1	3,159.0	2,946.7	212.31	14.879						
24,800.0	12,500.0	21,823.0	9,426.0	208.8	210.6	-12.49	-12,510.7	418.1	3,151.3	2,937.6	213.70	14.746						
24,811.6	12,500.0	21,823.0	9,426.0	208.9	210.6	-12.49	-12,510.7	418.1	3,150.6	2,936.8	213.85	14.733						

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #124H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 216-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	89.59	1.4	200.1	200.1					
100.0	100.0	97.4	97.4	0.1	0.2	89.57	1.5	200.2	200.2	199.9	0.28	713.995		
200.0	200.0	196.8	196.8	0.5	0.3	89.52	1.7	200.6	200.6	199.9	0.79	252.888		
300.0	300.0	296.9	296.9	0.8	0.6	89.41	2.1	201.2	201.2	199.8	1.47	136.840		
400.0	400.0	397.1	397.1	1.2	1.0	89.23	2.7	201.7	201.7	199.5	2.19	92.250 ES		
500.0	500.0	494.0	494.0	1.6	1.3	88.91	3.9	202.8	202.9	200.0	2.89	70.103		
600.0	600.0	590.7	590.6	1.9	1.7	88.34	6.0	205.5	205.7	202.1	3.60	57.101		
700.0	700.0	689.2	689.0	2.3	2.0	87.64	8.6	209.3	209.7	205.4	4.32	48.579		
800.0	800.0	787.7	787.3	2.6	2.4	86.92	11.5	213.7	214.3	209.3	5.03	42.619		
900.0	900.0	886.2	885.6	3.0	2.8	86.21	14.5	218.8	219.6	213.9	5.74	38.252		
1,000.0	1,000.0	984.9	984.2	3.4	3.1	85.53	17.6	224.4	225.5	219.1	6.45	34.946		
1,100.0	1,100.0	1,084.4	1,083.5	3.7	3.5	84.89	20.6	230.4	231.7	224.6	7.17	32.326		
1,200.0	1,200.0	1,181.7	1,180.5	4.1	3.8	84.33	23.5	236.5	238.3	230.4	7.88	30.257		
1,300.0	1,300.0	1,276.2	1,274.7	4.4	4.2	83.96	25.8	244.2	246.7	238.1	8.57	28.791		
1,400.0	1,400.0	1,373.9	1,371.9	4.8	4.6	83.77	27.7	254.0	256.8	247.6	9.27	27.695		
1,500.0	1,500.0	1,474.6	1,472.1	5.1	5.0	83.71	29.1	263.9	266.8	256.8	9.99	26.693		
1,600.0	1,600.0	1,573.5	1,570.5	5.5	5.3	83.65	30.4	273.4	276.5	265.8	10.71	25.825		
1,700.0	1,700.0	1,671.5	1,668.0	5.9	5.7	83.23	33.6	283.1	286.7	275.3	11.41	25.117		
1,800.0	1,800.0	1,771.7	1,767.5	6.2	6.1	82.57	38.2	293.1	297.1	285.0	12.14	24.484		
1,900.0	1,900.0	1,872.5	1,867.8	6.6	6.5	82.02	42.4	302.7	307.2	294.3	12.86	23.881		
2,000.0	2,000.0	1,974.5	1,969.2	6.9	6.9	81.40	47.2	311.8	316.6	303.1	13.60	23.289		
2,100.0	2,100.0	2,076.5	2,070.7	7.3	7.3	140.46	53.7	319.7	326.0	311.7	14.33	22.760		
2,200.0	2,200.0	2,179.7	2,173.5	7.6	7.7	139.66	61.0	326.7	335.9	320.8	15.06	22.307		
2,300.0	2,299.9	2,283.1	2,276.5	8.0	8.1	139.13	67.8	332.5	345.9	330.1	15.79	21.910		
2,402.1	2,401.8	2,378.4	2,371.4	8.4	8.4	139.00	73.2	338.6	358.1	341.6	16.48	21.725		
2,500.0	2,499.4	2,472.5	2,465.1	8.7	8.8	139.24	77.4	345.9	371.6	354.4	17.16	21.650		
2,600.0	2,599.2	2,574.8	2,567.1	9.1	9.2	139.64	80.9	353.8	385.1	367.2	17.89	21.525		
2,700.0	2,698.9	2,677.0	2,669.0	9.4	9.5	140.11	83.6	361.0	397.8	379.2	18.62	21.367		
2,800.0	2,798.7	2,778.4	2,770.1	9.8	9.9	140.59	85.9	367.6	410.0	390.6	19.34	21.195		
2,900.0	2,898.4	2,879.2	2,870.8	10.1	10.3	141.05	88.0	373.6	421.7	401.6	20.06	21.015		
3,000.0	2,998.2	2,979.4	2,970.8	10.5	10.7	141.44	90.4	379.3	433.1	412.3	20.78	20.839		
3,100.0	3,098.0	3,079.6	3,070.8	10.9	11.0	141.76	93.1	384.8	444.3	422.8	21.50	20.666		
3,200.0	3,197.7	3,179.7	3,170.7	11.2	11.4	142.11	95.5	390.1	455.4	433.2	22.22	20.497		
3,300.0	3,297.5	3,277.4	3,268.2	11.6	11.8	142.47	97.5	395.3	466.6	443.6	22.93	20.350		
3,400.0	3,397.2	3,373.7	3,364.4	12.0	12.1	142.81	99.6	401.0	478.3	454.6	23.63	20.243		
3,500.0	3,497.0	3,469.0	3,459.5	12.3	12.5	143.11	101.8	407.3	490.7	466.3	24.32	20.175		
3,600.0	3,596.7	3,563.8	3,553.9	12.7	12.8	143.39	104.2	414.3	503.9	478.9	25.01	20.150		
3,700.0	3,696.5	3,660.1	3,649.9	13.1	13.2	143.68	106.6	422.2	517.9	492.2	25.71	20.149		
3,800.0	3,796.2	3,757.1	3,746.5	13.4	13.6	144.03	108.3	430.6	532.4	506.0	26.41	20.159		
3,900.0	3,896.0	3,860.1	3,849.1	13.8	14.0	144.42	109.7	439.5	546.8	519.6	27.15	20.138		
4,000.0	3,995.7	3,965.6	3,954.3	14.2	14.4	144.73	111.8	447.4	560.1	532.2	27.91	20.069		
4,100.0	4,095.5	4,063.0	4,051.5	14.5	14.7	144.90	114.6	454.1	572.9	544.3	28.62	20.021		
4,200.0	4,195.2	4,159.7	4,147.7	14.9	15.1	144.92	118.9	461.1	586.2	556.9	29.32	19.994		
4,300.0	4,295.0	4,260.4	4,248.1	15.3	15.5	144.87	124.2	468.3	599.6	569.5	30.05	19.952		
4,400.0	4,394.8	4,361.4	4,348.7	15.6	15.9	144.84	129.1	475.4	612.6	581.8	30.78	19.901		
4,500.0	4,494.5	4,462.5	4,449.4	16.0	16.3	144.83	133.9	482.1	625.4	593.9	31.52	19.844		
4,600.0	4,594.3	4,563.6	4,550.3	16.4	16.6	144.85	138.4	488.5	637.8	605.6	32.25	19.779		
4,700.0	4,694.0	4,662.7	4,649.1	16.7	17.0	144.85	143.0	494.7	650.2	617.2	32.97	19.721		
4,800.0	4,793.8	4,762.8	4,748.9	17.1	17.4	144.83	147.7	500.9	662.5	628.8	33.70	19.661		
4,900.0	4,893.5	4,864.7	4,850.4	17.5	17.8	144.82	152.5	506.9	674.5	640.0	34.43	19.589		
5,000.0	4,993.3	4,965.9	4,951.4	17.9	18.1	144.82	157.1	512.5	686.1	651.0	35.16	19.512		
5,100.0	5,093.0	5,066.1	5,051.4	18.2	18.5	144.87	161.0	518.0	697.6	661.7	35.89	19.437		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #124H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 216-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	5,192.8	5,164.1	5,149.2	18.6	18.9	144.97	164.3	523.3	709.0	672.4	36.60	19.370		
5,300.0	5,292.5	5,260.0	5,244.9	19.0	19.2	145.10	167.0	529.0	720.9	683.6	37.30	19.324		
5,400.0	5,392.3	5,360.0	5,344.7	19.3	19.6	145.26	169.4	535.2	733.0	695.0	38.03	19.275		
5,500.0	5,492.0	5,463.1	5,447.5	19.7	20.0	145.43	171.9	541.2	744.7	706.0	38.77	19.209		
5,600.0	5,591.8	5,558.9	5,543.2	20.1	20.3	145.55	174.5	546.5	756.3	716.8	39.47	19.161		
5,700.0	5,691.6	5,652.1	5,636.2	20.4	20.7	145.61	178.0	552.4	768.6	728.5	40.15	19.142		
5,800.0	5,791.3	5,752.6	5,736.3	20.8	21.1	145.62	182.3	559.1	781.4	740.5	40.88	19.113		
5,900.0	5,891.1	5,856.1	5,839.5	21.2	21.5	145.65	186.4	565.6	793.7	752.1	41.63	19.064		
6,000.0	5,990.8	5,957.3	5,940.4	21.6	21.8	145.71	190.1	571.5	805.6	763.2	42.37	19.015		
6,100.0	6,090.6	6,058.0	6,041.0	21.9	22.2	145.78	193.4	577.3	817.3	774.2	43.10	18.964		
6,200.0	6,190.3	6,156.2	6,138.9	22.3	22.6	145.88	196.2	582.9	829.0	785.1	43.81	18.922		
6,300.0	6,290.1	6,254.4	6,237.0	22.7	22.9	146.03	198.4	588.7	840.8	796.3	44.52	18.884		
6,400.0	6,389.8	6,356.0	6,338.4	23.0	23.3	146.20	200.3	594.6	852.5	807.3	45.26	18.838		
6,500.0	6,489.6	6,457.7	6,439.9	23.4	23.7	146.36	202.1	600.2	864.0	818.0	45.99	18.787		
6,600.0	6,589.3	6,552.3	6,534.3	23.8	24.0	146.49	204.1	605.7	875.7	829.0	46.68	18.759		
6,700.0	6,689.1	6,648.1	6,629.9	24.2	24.4	146.60	206.6	611.6	887.8	840.4	47.38	18.738		
6,800.0	6,788.8	6,744.5	6,726.0	24.5	24.8	146.69	209.1	617.8	900.2	852.2	48.08	18.723		
6,900.0	6,888.6	6,842.9	6,824.3	24.9	25.1	146.80	211.7	624.4	913.0	864.2	48.80	18.709		
7,000.0	6,988.4	6,948.3	6,929.3	25.3	25.5	146.91	214.2	631.2	925.3	875.8	49.56	18.672		
7,100.0	7,088.1	7,052.0	7,032.9	25.7	25.9	147.03	216.5	637.1	937.1	886.8	50.30	18.628		
7,200.0	7,187.9	7,153.6	7,134.3	26.0	26.3	147.16	218.6	642.7	948.5	897.5	51.04	18.584		
7,300.0	7,287.6	7,255.8	7,236.3	26.4	26.7	147.30	220.5	648.0	959.7	907.9	51.77	18.536		
7,400.0	7,387.4	7,358.5	7,338.9	26.8	27.0	147.44	222.2	653.1	970.5	918.0	52.51	18.483		
7,500.0	7,487.1	7,463.4	7,443.7	27.1	27.4	147.61	223.4	657.8	981.0	927.7	53.26	18.421		
7,600.0	7,586.9	7,569.1	7,549.3	27.5	27.8	147.88	222.9	661.9	990.8	936.8	54.00	18.348		
7,700.0	7,686.6	7,678.2	7,658.3	27.9	28.2	148.20	221.5	665.4	999.9	945.1	54.75	18.262		
7,800.0	7,786.4	7,787.6	7,767.7	28.3	28.5	148.52	220.1	667.8	1,008.0	952.5	55.50	18.163		
7,900.0	7,886.1	7,891.9	7,872.0	28.6	28.9	148.81	218.8	669.3	1,015.5	959.3	56.22	18.063		
7,973.2	7,959.2	7,969.0	7,949.0	28.9	29.1	149.02	217.8	670.1	1,020.6	963.9	56.75	17.985		
8,000.0	7,985.9	7,995.5	7,975.5	29.0	29.2	149.11	217.4	670.3	1,022.4	965.4	56.93	17.957		
8,100.0	8,085.8	8,096.7	8,076.8	29.4	29.6	149.36	216.2	671.1	1,027.4	969.8	57.63	17.826		
8,200.0	8,185.7	8,200.0	8,180.0	29.7	29.9	149.53	214.9	671.7	1,030.0	971.7	58.34	17.657		
8,241.3	8,227.0	8,243.3	8,223.4	29.9	30.0	89.61	214.3	671.8	1,030.3	971.7	58.63	17.575		
8,300.0	8,285.7	8,305.0	8,285.1	30.1	30.2	89.65	213.6	671.8	1,030.3	971.3	59.03	17.453		
8,400.0	8,385.7	8,412.0	8,392.1	30.4	30.6	89.73	212.3	671.4	1,029.9	970.2	59.73	17.243		
8,500.0	8,485.7	8,519.7	8,499.7	30.8	30.9	89.81	210.9	670.1	1,028.7	968.3	60.42	17.027		
8,600.0	8,585.7	8,622.8	8,602.8	31.1	31.2	89.88	209.5	668.3	1,027.0	965.9	61.09	16.810		
8,700.0	8,685.7	8,726.5	8,706.4	31.5	31.5	89.96	208.1	666.3	1,025.0	963.2	61.77	16.594		
8,800.0	8,785.7	8,834.1	8,814.0	31.8	31.9	90.04	206.7	663.5	1,022.4	960.0	62.45	16.371		
8,900.0	8,885.7	8,913.6	8,893.5	32.2	32.1	90.08	206.0	661.8	1,020.4	957.3	63.09	16.173		
8,982.7	8,968.4	8,986.5	8,966.4	32.4	32.4	90.08	205.9	661.6	1,020.1	956.5	63.63	16.032		
9,000.0	8,985.7	9,002.8	8,982.7	32.5	32.4	90.08	206.0	661.6	1,020.1	956.4	63.74	16.003		
9,100.0	9,085.7	9,100.9	9,080.8	32.8	32.8	90.06	206.4	661.9	1,020.3	955.9	64.44	15.835		
9,200.0	9,185.7	9,205.2	9,185.1	33.2	33.1	90.03	206.8	662.0	1,020.5	955.3	65.15	15.664		
9,300.0	9,285.7	9,310.4	9,290.3	33.5	33.5	90.02	207.0	661.6	1,020.1	954.2	65.85	15.492		
9,400.0	9,385.7	9,431.3	9,411.2	33.9	33.8	90.11	205.4	660.0	1,018.8	952.2	66.56	15.306		
9,500.0	9,485.7	9,579.5	9,556.2	34.2	34.3	91.62	178.9	651.6	1,013.1	945.9	67.21	15.073		
9,600.0	9,585.7	9,708.0	9,670.0	34.6	34.5	94.93	121.3	639.2	1,005.1	937.2	67.82	14.819		
9,700.0	9,685.7	9,769.5	9,718.1	34.9	34.6	97.11	83.8	632.1	998.9	930.4	68.51	14.580		
9,749.9	9,735.7	9,790.6	9,733.7	35.1	34.7	97.94	69.6	629.9	998.0	929.2	68.77	14.511		
9,800.0	9,785.7	9,810.5	9,747.8	35.3	34.7	98.74	55.7	628.2	998.9	929.9	68.96	14.485		
9,900.0	9,885.7	9,852.8	9,775.7	35.6	34.7	100.56	24.1	624.9	1,006.1	937.0	69.10	14.559		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #124H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 216-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,000.0	9,985.7	9,888.3	9,795.9	36.0	34.8	102.22	-5.0	622.0	1,020.6	951.8	68.85	14.823		
10,100.0	10,085.7	9,920.0	9,812.0	36.3	34.8	103.76	-32.1	619.5	1,042.9	974.7	68.21	15.289		
10,200.0	10,185.7	9,936.3	9,819.8	36.7	34.8	104.56	-46.4	618.5	1,073.0	1,005.9	67.11	15.990		
10,300.0	10,285.7	9,958.1	9,829.9	37.0	34.8	105.63	-65.7	617.7	1,110.6	1,044.8	65.80	16.878		
10,400.0	10,385.7	9,967.0	9,833.9	37.4	34.8	106.06	-73.6	617.5	1,154.9	1,090.7	64.15	18.002		
10,500.0	10,485.7	9,997.7	9,847.8	37.7	34.9	107.54	-101.0	617.5	1,205.0	1,142.3	62.74	19.206		
10,600.0	10,585.7	10,015.0	9,855.5	38.1	34.9	108.35	-116.5	617.8	1,260.3	1,199.2	61.11	20.621		
10,700.0	10,685.7	10,044.5	9,868.7	38.4	34.9	109.72	-142.9	618.9	1,319.9	1,260.2	59.74	22.094		
10,800.0	10,785.7	10,066.1	9,878.2	38.8	35.0	110.69	-162.2	620.1	1,383.5	1,325.2	58.30	23.732		
10,900.0	10,885.7	10,087.2	9,887.5	39.1	35.0	111.62	-181.1	621.7	1,450.6	1,393.7	56.94	25.477		
11,000.0	10,985.7	10,110.0	9,897.3	39.5	35.1	112.60	-201.5	623.9	1,520.8	1,465.1	55.71	27.298		
11,100.0	11,085.7	10,160.5	9,919.1	39.8	35.3	114.70	-246.8	629.1	1,593.1	1,538.0	55.13	28.900		
11,200.0	11,185.7	10,218.2	9,944.3	40.2	35.5	116.99	-298.4	634.7	1,666.9	1,612.1	54.76	30.438		
11,300.0	11,285.7	10,233.9	9,950.5	40.5	35.6	117.62	-312.8	635.6	1,742.5	1,688.7	53.71	32.444		
11,400.0	11,385.7	10,254.0	9,958.2	40.9	35.7	118.44	-331.4	636.3	1,819.9	1,767.1	52.80	34.467		
11,500.0	11,485.7	10,271.3	9,964.3	41.2	35.7	119.15	-347.6	636.4	1,899.1	1,847.1	51.93	36.572		
11,600.0	11,585.7	10,299.0	9,973.1	41.6	35.9	120.31	-373.8	635.7	1,980.0	1,928.7	51.28	38.613		
11,700.0	11,685.7	10,299.0	9,973.1	42.0	35.9	120.31	-373.8	635.7	2,062.1	2,011.8	50.32	40.980		
11,800.0	11,785.7	10,299.0	9,973.1	42.3	35.9	120.31	-373.8	635.7	2,145.8	2,096.3	49.46	43.386		
11,900.0	11,885.7	10,299.0	9,973.1	42.7	35.9	120.31	-373.8	635.7	2,230.8	2,182.1	48.69	45.821		
11,941.3	11,927.0	10,299.0	9,973.1	42.8	35.9	120.31	-373.8	635.7	2,266.3	2,217.9	48.39	46.832		
11,950.0	11,935.7	10,299.0	9,973.1	42.8	35.9	-58.00	-373.8	635.7	2,273.8	2,225.4	48.33	47.047		
12,000.0	11,985.6	10,299.0	9,973.1	43.0	35.9	-51.46	-373.8	635.7	2,316.2	2,268.2	47.97	48.289		
12,050.0	12,035.1	10,299.0	9,973.1	43.1	35.9	-45.98	-373.8	635.7	2,357.5	2,309.9	47.59	49.536		
12,100.0	12,083.7	10,299.0	9,973.1	43.3	35.9	-41.42	-373.8	635.7	2,397.3	2,350.1	47.21	50.782		
12,150.0	12,131.2	10,299.0	9,973.1	43.4	35.9	-37.65	-373.8	635.7	2,435.5	2,388.7	46.82	52.015		
12,200.0	12,177.0	10,299.0	9,973.1	43.6	35.9	-34.52	-373.8	635.7	2,471.9	2,425.4	46.44	53.229		
12,250.0	12,221.0	10,299.0	9,973.1	43.7	35.9	-31.93	-373.8	635.7	2,506.2	2,460.2	46.06	54.413		
12,300.0	12,262.8	10,339.1	9,982.8	43.8	36.0	-29.35	-412.6	633.1	2,536.2	2,490.1	46.08	55.042		
12,350.0	12,301.9	10,344.5	9,983.8	43.9	36.0	-27.58	-417.9	632.7	2,565.3	2,519.6	45.75	56.071		
12,400.0	12,338.3	10,350.1	9,984.7	43.9	36.1	-26.11	-423.4	632.2	2,591.8	2,546.4	45.44	57.039		
12,450.0	12,371.5	10,395.0	9,988.6	44.0	36.2	-24.57	-467.8	627.2	2,617.7	2,572.2	45.43	57.620		
12,500.0	12,401.3	10,395.0	9,988.6	44.1	36.2	-23.67	-467.8	627.2	2,638.0	2,592.9	45.10	58.494		
12,550.0	12,427.5	10,395.0	9,988.6	44.1	36.2	-22.93	-467.8	627.2	2,655.4	2,610.6	44.80	59.274		
12,600.0	12,449.9	10,395.0	9,988.6	44.2	36.2	-22.35	-467.8	627.2	2,669.8	2,625.3	44.54	59.948		
12,650.0	12,468.3	10,395.0	9,988.6	44.3	36.2	-21.91	-467.8	627.2	2,681.3	2,636.9	44.31	60.505		
12,700.0	12,482.6	10,395.0	9,988.6	44.4	36.2	-21.59	-467.8	627.2	2,689.6	2,645.5	44.14	60.933		
12,750.0	12,492.7	10,395.0	9,988.6	44.5	36.2	-21.40	-467.8	627.2	2,694.9	2,650.8	44.02	61.223		
12,800.0	12,498.5	10,395.0	9,988.6	44.6	36.2	-21.32	-467.8	627.2	2,697.0	2,653.0	43.95	61.368		
12,841.3	12,500.0	10,395.0	9,988.6	44.7	36.2	-21.34	-467.8	627.2	2,696.4	2,652.4	43.93	61.375		
12,900.0	12,500.0	10,438.3	9,989.1	44.9	36.4	-21.25	-510.9	622.6	2,693.5	2,649.4	44.07	61.120		
13,000.0	12,500.0	10,490.0	9,988.5	45.2	36.7	-21.18	-562.4	619.5	2,691.6	2,647.2	44.32	60.725		
13,045.5	12,500.0	10,490.0	9,988.5	45.4	36.7	-21.18	-562.4	619.5	2,691.2	2,646.7	44.42	60.584		
13,100.0	12,500.0	10,510.5	9,988.0	45.6	36.8	-21.16	-582.9	619.0	2,691.6	2,647.0	44.62	60.329		
13,200.0	12,500.0	10,585.0	9,986.4	46.0	37.1	-21.15	-657.4	619.8	2,693.6	2,648.4	45.15	59.662		
13,300.0	12,500.0	10,681.0	9,985.1	46.5	37.7	-21.21	-753.3	624.0	2,696.2	2,650.4	45.85	58.800		
13,400.0	12,500.0	10,829.9	9,985.8	47.0	38.7	-21.37	-901.9	633.0	2,697.7	2,650.8	46.89	57.534		
13,500.0	12,500.0	10,914.6	9,986.0	47.6	39.3	-21.40	-986.6	635.2	2,698.2	2,650.5	47.67	56.600		
13,600.0	12,500.0	10,986.3	9,984.7	48.2	39.8	-21.40	-1,058.2	636.0	2,700.0	2,651.5	48.43	55.748		
13,700.0	12,500.0	11,117.3	9,982.8	48.9	40.9	-21.41	-1,189.2	638.2	2,701.7	2,652.2	49.49	54.589		
13,800.0	12,500.0	11,246.7	9,982.1	49.6	42.0	-21.39	-1,318.7	638.8	2,702.1	2,651.5	50.60	53.401		
13,817.7	12,500.0	11,268.7	9,982.1	49.8	42.2	-21.39	-1,340.6	638.9	2,702.1	2,651.3	50.80	53.191		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #124H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 216-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.0	12,500.0	11,307.6	9,981.5	50.4	42.6	-21.38	-1,379.5	638.7	2,702.7	2,651.3	51.44	52.538		
14,000.0	12,500.0	11,391.2	9,979.0	51.2	43.4	-21.33	-1,463.1	637.6	2,704.7	2,652.3	52.40	51.611		
14,100.0	12,500.0	11,512.9	9,976.0	52.0	44.5	-21.26	-1,584.7	636.4	2,706.3	2,652.7	53.58	50.513		
14,200.0	12,500.0	11,626.7	9,973.5	52.9	45.7	-21.17	-1,698.4	633.5	2,707.2	2,652.5	54.73	49.461		
14,300.0	12,500.0	11,696.7	9,971.7	53.8	46.5	-21.11	-1,768.4	631.9	2,708.4	2,652.7	55.74	48.593		
14,400.0	12,500.0	14,400.0	9,969.6	54.8	76.2	-21.07	-1,885.7	631.4	2,709.7	2,634.9	74.86	36.198		
14,500.0	12,500.0	11,879.5	9,968.8	55.8	48.5	-21.07	-1,951.1	632.2	2,711.2	2,653.1	58.12	46.649		
14,600.0	12,500.0	11,955.9	9,967.3	56.8	49.3	-21.12	-2,027.5	636.0	2,714.3	2,655.0	59.34	45.741		
14,700.0	12,500.0	14,700.0	9,966.5	57.8	82.2	-21.24	-2,171.8	643.7	2,716.4	2,636.2	80.12	33.903		
14,800.0	12,500.0	12,165.1	9,966.5	58.9	51.9	-21.30	-2,236.3	647.0	2,718.2	2,656.0	62.25	43.666		
14,900.0	12,500.0	12,289.3	9,964.2	60.0	53.4	-21.39	-2,360.4	653.2	2,721.7	2,657.8	63.86	42.620		
15,000.0	12,500.0	12,340.4	9,963.2	61.1	54.0	-21.41	-2,411.4	655.2	2,724.6	2,659.6	65.02	41.904		
15,100.0	12,500.0	12,397.0	9,960.6	62.3	54.7	-21.41	-2,468.0	656.5	2,729.4	2,663.2	66.21	41.222		
15,200.0	12,500.0	12,629.5	9,954.9	63.5	57.7	-21.45	-2,700.3	662.7	2,732.3	2,663.8	68.49	39.892		
15,300.0	12,500.0	12,733.8	9,954.2	64.7	59.1	-21.44	-2,804.5	663.3	2,732.9	2,662.9	70.00	39.043		
15,400.0	12,500.0	12,804.2	9,952.9	65.9	60.0	-21.39	-2,874.9	661.9	2,733.7	2,662.4	71.27	38.357		
15,500.0	12,500.0	12,860.0	9,950.5	67.1	60.8	-21.33	-2,930.6	659.9	2,736.1	2,663.6	72.45	37.766		
15,600.0	12,500.0	12,953.5	9,945.5	68.3	62.0	-21.20	-3,023.9	656.2	2,739.4	2,665.6	73.80	37.117		
15,700.0	12,500.0	13,120.5	9,940.0	69.6	64.3	-21.07	-3,190.8	652.7	2,741.3	2,665.7	75.63	36.247		
15,800.0	12,500.0	13,288.7	9,939.8	70.9	66.6	-21.04	-3,359.0	652.7	2,741.3	2,663.7	77.61	35.322		
15,900.0	12,500.0	13,451.7	9,945.1	72.2	68.9	-21.06	-3,521.9	653.0	2,737.7	2,658.1	79.64	34.378		
16,000.0	12,500.0	13,513.0	9,947.3	73.5	69.8	-21.09	-3,583.1	654.0	2,734.6	2,653.6	81.01	33.757		
16,100.0	12,500.0	13,605.0	9,951.3	74.8	71.1	-21.16	-3,675.0	656.6	2,731.4	2,648.7	82.65	33.049		
16,200.0	12,500.0	13,660.5	9,953.1	76.2	71.9	-21.19	-3,730.5	657.8	2,729.4	2,645.4	84.01	32.491		
16,220.8	12,500.0	13,667.6	9,953.1	76.4	72.0	-21.19	-3,737.6	657.8	2,729.4	2,645.1	84.25	32.394		
16,300.0	12,500.0	13,697.0	9,952.8	77.5	72.5	-21.18	-3,767.0	658.0	2,730.1	2,644.9	85.21	32.041		
16,400.0	12,500.0	13,765.6	9,950.7	78.9	73.5	-21.16	-3,835.5	658.0	2,732.6	2,646.0	86.60	31.555		
16,500.0	12,500.0	13,932.7	9,946.2	80.2	75.9	-21.08	-4,002.5	656.9	2,734.8	2,646.1	88.60	30.866		
16,600.0	12,500.0	14,013.4	9,945.1	81.6	77.1	-21.03	-4,083.2	655.6	2,735.2	2,645.2	90.07	30.369		
16,700.0	12,500.0	14,067.0	9,943.3	83.0	77.8	-20.99	-4,136.8	654.4	2,737.3	2,646.0	91.35	29.965		
16,800.0	12,500.0	14,183.7	9,938.6	84.4	79.5	-20.87	-4,253.4	651.1	2,739.8	2,646.9	92.98	29.467		
16,900.0	12,500.0	14,254.0	9,935.7	85.8	80.6	-20.80	-4,323.6	648.9	2,742.4	2,648.0	94.35	29.067		
17,000.0	12,500.0	14,301.6	9,933.2	87.2	81.3	-20.75	-4,371.1	647.9	2,746.5	2,650.9	95.59	28.733		
17,100.0	12,500.0	14,350.0	9,929.7	88.7	82.0	-20.72	-4,419.3	648.1	2,753.0	2,656.1	96.85	28.427		
17,200.0	12,500.0	14,573.6	9,916.7	90.1	85.3	-20.63	-4,642.4	649.8	2,759.1	2,659.8	99.30	27.785		
17,300.0	12,500.0	14,806.6	9,909.4	91.5	88.8	-20.34	-4,875.1	639.4	2,761.3	2,659.8	101.49	27.206		
17,400.0	12,500.0	14,930.3	9,911.4	93.0	90.7	-20.27	-4,998.8	636.1	2,758.5	2,655.3	103.25	26.717		
17,500.0	12,500.0	14,987.2	9,913.0	94.4	91.6	-20.30	-5,055.6	637.6	2,756.4	2,651.7	104.72	26.322		
17,564.4	12,500.0	15,013.0	9,913.8	95.4	92.0	-20.33	-5,081.3	639.2	2,755.9	2,650.3	105.61	26.095		
17,600.0	12,500.0	15,013.0	9,913.8	95.9	92.0	-20.33	-5,081.3	639.2	2,756.1	2,650.1	105.97	26.008		
17,700.0	12,500.0	15,071.5	9,914.6	97.4	92.9	-20.41	-5,139.6	643.4	2,757.5	2,650.0	107.51	25.650		
17,800.0	12,500.0	15,392.0	9,926.8	98.8	97.8	-20.70	-5,459.4	656.1	2,752.3	2,641.2	111.16	24.760		
17,900.0	12,500.0	15,428.6	9,929.1	100.3	98.4	-20.73	-5,495.9	657.0	2,747.8	2,635.3	112.55	24.415		
18,000.0	12,500.0	15,449.8	9,929.6	101.8	98.7	-20.74	-5,517.1	657.5	2,746.4	2,632.6	113.78	24.139		
18,000.4	12,500.0	15,449.9	9,929.6	101.8	98.7	-20.74	-5,517.2	657.5	2,746.4	2,632.6	113.78	24.138		
18,100.0	12,500.0	15,487.0	9,928.7	103.3	99.3	-20.74	-5,554.3	658.1	2,748.0	2,633.0	115.07	23.881		
18,200.0	12,500.0	15,508.1	9,927.7	104.8	99.6	-20.74	-5,575.4	658.5	2,752.0	2,635.8	116.20	23.683		
18,300.0	12,500.0	18,300.0	9,923.6	106.3	143.5	-20.94	-5,810.4	672.3	2,756.5	2,614.1	142.35	19.364		
18,400.0	12,500.0	15,772.0	9,924.4	107.8	103.7	-20.99	-5,838.5	674.9	2,757.6	2,637.0	120.64	22.859		
18,500.0	12,500.0	15,816.0	9,925.4	109.3	104.4	-21.08	-5,882.2	679.2	2,760.4	2,638.2	122.10	22.607		
18,600.0	12,500.0	18,600.0	9,921.2	110.8	148.1	-21.13	-5,946.6	683.9	2,767.7	2,619.5	148.19	18.677		
18,700.0	12,500.0	16,009.0	9,917.5	112.3	107.4	-21.23	-6,074.5	691.8	2,772.1	2,646.2	125.86	22.025		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #124H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 216-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		
18,800.0	12,500.0	16,056.0	9,914.3	113.9	108.2	-21.25	-6,121.3	694.4	2,779.1	2,651.8	127.22	21.845		
18,900.0	12,500.0	16,056.0	9,914.3	115.4	108.2	-21.25	-6,121.3	694.4	2,787.9	2,659.8	128.07	21.769		
19,000.0	12,500.0	16,247.0	9,902.4	116.9	111.2	-21.39	-6,311.5	707.5	2,795.1	2,664.1	130.95	21.345		
19,100.0	12,500.0	16,311.4	9,899.1	118.4	112.2	-21.44	-6,375.6	712.2	2,802.6	2,670.0	132.51	21.150		
19,200.0	12,500.0	16,583.2	9,887.5	120.0	116.5	-21.54	-6,646.8	723.8	2,807.4	2,671.4	135.96	20.649		
19,300.0	12,500.0	19,300.0	9,885.5	121.5	159.4	-21.55	-6,790.1	726.0	2,808.9	2,647.2	161.67	17.374		
19,400.0	12,500.0	16,785.0	9,885.3	123.0	119.7	-21.55	-6,848.5	726.6	2,809.8	2,670.2	139.59	20.129		
19,500.0	12,500.0	16,832.9	9,883.5	124.6	120.5	-21.54	-6,896.4	727.3	2,813.3	2,672.3	140.97	19.957		
19,600.0	12,500.0	17,044.6	9,879.1	126.1	123.8	-21.54	-7,108.0	730.9	2,815.6	2,672.0	143.64	19.602		
19,700.0	12,500.0	17,155.1	9,879.1	127.7	125.6	-21.56	-7,218.4	732.7	2,816.0	2,670.4	145.57	19.345		
19,800.0	12,500.0	17,260.2	9,879.3	129.2	127.2	-21.55	-7,323.6	732.8	2,815.6	2,668.2	147.39	19.103		
19,855.1	12,500.0	17,308.0	9,879.1	130.1	128.0	-21.54	-7,371.4	732.7	2,815.5	2,667.2	148.32	18.983		
19,900.0	12,500.0	17,347.0	9,879.0	130.8	128.6	-21.54	-7,410.4	732.7	2,815.6	2,666.5	149.08	18.886		
20,000.0	12,500.0	17,474.2	9,879.4	132.3	130.6	-21.56	-7,537.5	734.6	2,815.6	2,664.5	151.13	18.630		
20,100.0	12,500.0	17,618.3	9,882.1	133.9	132.9	-21.58	-7,681.6	735.7	2,813.8	2,660.5	153.28	18.357		
20,200.0	12,500.0	17,697.0	9,883.9	135.5	134.2	-21.59	-7,760.3	736.3	2,811.6	2,656.6	155.00	18.140		
20,293.2	12,500.0	17,746.2	9,884.4	136.9	134.9	-21.59	-7,809.5	736.7	2,810.9	2,654.5	156.42	17.970		
20,300.0	12,500.0	17,749.8	9,884.4	137.0	135.0	-21.59	-7,813.1	736.8	2,810.9	2,654.4	156.52	17.959		
20,400.0	12,500.0	17,830.6	9,883.9	138.6	136.3	-21.60	-7,893.9	737.7	2,811.5	2,653.3	158.22	17.770		
20,500.0	12,500.0	17,909.6	9,883.3	140.1	137.5	-21.60	-7,972.8	738.9	2,812.6	2,652.7	159.91	17.589		
20,600.0	12,500.0	18,018.1	9,881.1	141.7	139.3	-21.59	-8,081.3	739.6	2,814.5	2,652.7	161.76	17.399		
20,700.0	12,500.0	18,282.9	9,881.4	143.3	143.5	-21.48	-8,346.0	736.0	2,814.9	2,650.5	164.38	17.124		
20,800.0	12,500.0	18,351.1	9,883.7	144.9	144.6	-21.47	-8,414.1	735.1	2,810.9	2,644.9	166.02	16.931		
20,900.0	12,500.0	18,465.2	9,888.1	146.4	146.4	-21.49	-8,528.1	735.1	2,807.1	2,639.1	167.97	16.712		
21,000.0	12,500.0	18,528.0	9,890.8	148.0	147.4	-21.51	-8,590.9	735.7	2,803.4	2,633.7	169.65	16.524		
21,100.0	12,500.0	18,592.1	9,892.7	149.6	148.4	-21.53	-8,655.0	736.6	2,801.0	2,629.7	171.32	16.349		
21,181.5	12,500.0	18,635.0	9,893.2	150.9	149.1	-21.54	-8,697.8	737.4	2,800.5	2,627.9	172.59	16.226		
21,200.0	12,500.0	18,647.1	9,893.2	151.2	149.3	-21.55	-8,710.0	737.6	2,800.5	2,627.6	172.90	16.198		
21,300.0	12,500.0	18,717.0	9,893.3	152.7	150.4	-21.58	-8,779.8	739.9	2,801.3	2,626.7	174.59	16.045		
21,400.0	12,500.0	18,793.9	9,892.8	154.3	151.7	-21.63	-8,856.6	743.2	2,803.1	2,626.8	176.38	15.893		
21,500.0	12,500.0	19,052.0	9,896.2	155.9	155.8	-21.67	-9,114.6	746.0	2,801.4	2,622.0	179.38	15.617		
21,600.0	12,500.0	19,203.1	9,903.8	157.5	158.3	-21.75	-9,265.5	748.3	2,797.0	2,615.3	181.68	15.395		
21,700.0	12,500.0	19,273.9	9,907.5	159.1	159.4	-21.78	-9,336.2	748.8	2,792.2	2,608.7	183.47	15.219		
21,800.0	12,500.0	19,381.9	9,911.4	160.7	161.1	-21.76	-9,444.2	746.9	2,787.9	2,602.6	185.30	15.046		
21,900.0	12,500.0	19,467.2	9,914.0	162.3	162.5	-21.71	-9,529.4	744.0	2,783.5	2,596.6	186.95	14.889		
22,000.0	12,500.0	19,524.2	9,915.1	163.8	163.4	-21.67	-9,586.3	741.9	2,780.2	2,591.7	188.46	14.752		
22,100.0	12,500.0	19,572.0	9,915.1	165.4	164.2	-21.62	-9,634.0	740.0	2,778.5	2,588.7	189.87	14.634		
22,157.8	12,500.0	19,612.1	9,914.5	166.4	164.8	-21.58	-9,674.1	738.2	2,778.3	2,587.6	190.70	14.569		
22,200.0	12,500.0	19,636.9	9,913.8	167.0	165.2	-21.55	-9,698.9	737.0	2,778.4	2,587.1	191.27	14.526		
22,300.0	12,500.0	19,699.2	9,911.4	168.6	166.2	-21.46	-9,761.0	733.6	2,779.7	2,587.2	192.57	14.435		
22,400.0	12,500.0	19,765.9	9,907.8	170.2	167.3	-21.35	-9,827.5	729.8	2,782.3	2,588.5	193.84	14.354		
22,500.0	12,500.0	22,500.0	9,913.3	171.8	211.5	-21.25	-10,199.4	725.4	2,779.2	2,560.2	219.03	12.688		
22,600.0	12,500.0	20,207.8	9,918.5	173.4	174.4	-21.30	-10,268.4	726.7	2,772.8	2,573.9	198.97	13.936		
22,700.0	12,500.0	20,281.7	9,922.6	175.0	175.6	-21.35	-10,342.2	728.0	2,768.0	2,567.2	200.83	13.783		
22,800.0	12,500.0	20,375.6	9,927.3	176.6	177.1	-21.39	-10,436.0	729.2	2,763.5	2,560.7	202.78	13.628		
22,900.0	12,500.0	20,427.0	9,929.3	178.2	177.9	-21.40	-10,487.3	728.9	2,759.7	2,555.3	204.39	13.502		
23,000.0	12,500.0	20,466.6	9,929.9	179.8	178.6	-21.38	-10,526.9	728.4	2,757.9	2,552.1	205.83	13.399		
23,014.6	12,500.0	20,470.7	9,929.9	180.0	178.6	-21.38	-10,531.0	728.3	2,757.9	2,551.9	206.02	13.387		
23,100.0	12,500.0	20,522.0	9,928.2	181.4	179.5	-21.35	-10,582.3	727.6	2,759.3	2,552.1	207.24	13.314		
23,200.0	12,500.0	20,522.0	9,928.2	183.0	179.5	-21.35	-10,582.3	727.6	2,762.4	2,554.2	208.20	13.268		
23,300.0	12,500.0	20,592.0	9,923.8	184.6	180.6	-21.29	-10,652.2	727.1	2,767.7	2,558.2	209.57	13.206		
23,400.0	12,500.0	20,672.4	9,918.2	186.2	181.9	-21.25	-10,732.4	727.4	2,774.1	2,563.0	211.07	13.143		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design		Voni - Voni Fed Com #124H - Wellbore #1 - Actual												Offset Site Error:	0.0 usft
Survey Program:		216-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			
23,500.0	12,500.0	20,834.2	9,908.8	187.8	184.5	-21.18	-10,893.9	729.1	2,779.6	2,566.2	213.39	13.026			
23,600.0	12,500.0	21,142.3	9,909.4	189.4	189.5	-21.22	-11,201.7	733.0	2,778.2	2,561.3	216.91	12.808			
23,700.0	12,500.0	23,700.0	9,914.9	191.0	231.2	-21.29	-11,327.0	735.5	2,774.5	2,532.7	241.82	11.474 SF			
23,800.0	12,500.0	21,329.8	9,917.7	192.6	192.6	-21.32	-11,389.0	736.5	2,770.9	2,550.0	220.86	12.546			
23,900.0	12,500.0	21,376.0	9,918.2	194.3	193.3	-21.31	-11,435.2	736.3	2,769.3	2,547.0	222.37	12.454			
23,918.8	12,500.0	21,376.0	9,918.2	194.6	193.3	-21.31	-11,435.2	736.3	2,769.3	2,546.7	222.59	12.441			
24,000.0	12,500.0	21,421.3	9,917.5	195.9	194.0	-21.29	-11,480.5	735.6	2,769.7	2,546.0	223.75	12.378			
24,100.0	12,500.0	21,476.3	9,915.7	197.5	194.9	-21.25	-11,535.4	734.7	2,771.9	2,546.8	225.10	12.314			
24,200.0	12,500.0	21,723.6	9,914.4	199.1	198.9	-21.18	-11,782.6	733.5	2,771.6	2,543.8	227.81	12.166			
24,300.0	12,500.0	21,798.6	9,915.7	200.7	200.2	-21.18	-11,857.6	733.7	2,769.8	2,540.2	229.53	12.067			
24,400.0	12,500.0	21,898.7	9,917.2	202.3	201.8	-21.20	-11,957.6	734.7	2,768.4	2,537.0	231.44	11.962			
24,500.0	12,500.0	21,971.8	9,918.6	203.9	203.0	-21.22	-12,030.7	735.9	2,767.1	2,533.9	233.20	11.866			
24,526.0	12,500.0	21,983.5	9,918.7	204.3	203.2	-21.23	-12,042.4	736.1	2,767.0	2,533.4	233.59	11.846			
24,600.0	12,500.0	22,016.6	9,918.6	205.5	203.7	-21.23	-12,075.5	736.6	2,767.6	2,532.9	234.67	11.793			
24,700.0	12,500.0	22,082.1	9,917.4	207.1	204.8	-21.25	-12,141.0	738.5	2,769.9	2,533.6	236.29	11.722			
24,800.0	12,500.0	22,182.5	9,917.1	208.8	206.4	-21.38	-12,241.1	746.4	2,772.7	2,534.1	238.60	11.621			
24,811.6	12,500.0	22,196.7	9,917.1	208.9	206.7	-21.40	-12,255.2	747.5	2,773.0	2,534.1	238.91	11.607			

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #134H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 14-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	107.94	-29.2	90.3	94.9					
100.0	100.0	99.0	99.0	0.1	0.3	107.96	-29.2	90.2	94.9	94.5	0.38	249.606		
200.0	200.0	199.0	199.0	0.5	0.6	108.01	-29.3	90.2	94.8	93.7	1.10	86.469		
201.7	201.7	200.7	200.7	0.5	0.6	108.01	-29.3	90.2	94.8	93.7	1.11	85.536 CC		
300.0	300.0	298.9	298.9	0.8	1.0	108.03	-29.4	90.3	94.9	93.1	1.80	52.629		
400.0	400.0	398.9	398.9	1.2	1.3	108.01	-29.4	90.4	95.1	92.6	2.51	37.906		
500.0	500.0	498.9	498.9	1.6	1.7	107.99	-29.4	90.5	95.2	92.0	3.22	29.590		
600.0	600.0	598.7	598.7	1.9	2.0	107.75	-29.1	90.8	95.4	91.4	3.92	24.317		
700.0	700.0	698.3	698.3	2.3	2.3	107.09	-28.2	91.6	95.9	91.2	4.63	20.711 ES		
800.0	800.0	798.0	797.9	2.6	2.7	106.17	-26.9	92.9	96.8	91.4	5.34	18.127		
900.0	900.0	897.8	897.8	3.0	3.1	105.17	-25.6	94.5	98.0	91.9	6.05	16.189		
1,000.0	1,000.0	997.6	997.6	3.4	3.4	104.08	-24.2	96.3	99.3	92.5	6.76	14.683		
1,100.0	1,100.0	1,097.4	1,097.3	3.7	3.8	103.10	-22.9	98.2	100.9	93.4	7.48	13.489		
1,200.0	1,200.0	1,196.5	1,196.4	4.1	4.1	102.52	-22.3	100.4	102.9	94.7	8.19	12.561		
1,300.0	1,300.0	1,295.9	1,295.7	4.4	4.5	102.04	-22.1	103.4	105.8	96.9	8.90	11.888		
1,400.0	1,400.0	1,393.5	1,393.2	4.8	4.8	100.89	-20.8	108.0	110.1	100.5	9.60	11.465		
1,500.0	1,500.0	1,490.9	1,490.3	5.1	5.2	98.75	-17.7	115.2	116.9	106.6	10.30	11.341		
1,600.0	1,600.0	1,589.0	1,587.8	5.5	5.5	95.84	-12.7	124.2	125.4	114.4	11.01	11.391		
1,700.0	1,700.0	1,688.5	1,686.8	5.9	5.9	93.14	-7.3	133.7	134.4	122.7	11.72	11.471		
1,800.0	1,800.0	1,789.3	1,787.0	6.2	6.3	90.70	-1.7	142.8	143.3	130.9	12.45	11.512		
1,900.0	1,900.0	1,889.2	1,886.2	6.6	6.7	87.66	6.2	150.9	151.6	138.4	13.17	11.512		
2,000.0	2,000.0	1,989.8	1,986.2	6.9	7.0	84.89	14.2	158.8	159.9	146.0	13.89	11.510		
2,100.0	2,100.0	2,092.8	2,088.7	7.3	7.4	142.25	22.7	165.0	167.6	153.0	14.63	11.456		
2,200.0	2,200.0	2,193.3	2,188.7	7.6	7.8	140.28	30.9	169.9	175.7	160.4	15.34	11.451		
2,300.0	2,299.9	2,290.9	2,285.9	8.0	8.2	138.81	39.0	174.5	185.1	169.0	16.04	11.537		
2,402.1	2,401.8	2,388.9	2,383.4	8.4	8.5	138.11	46.4	180.4	197.3	180.6	16.74	11.787		
2,500.0	2,499.4	2,488.3	2,482.3	8.7	8.9	138.08	52.7	187.5	210.5	193.1	17.46	12.059		
2,600.0	2,599.2	2,589.0	2,582.7	9.1	9.3	138.14	58.5	193.6	222.9	204.7	18.18	12.257		
2,700.0	2,698.9	2,680.7	2,673.9	9.4	9.6	138.15	64.3	200.4	236.6	217.8	18.83	12.564		
2,800.0	2,798.7	2,779.8	2,772.4	9.8	10.0	138.10	71.1	209.4	252.1	232.5	19.55	12.894		
2,900.0	2,898.4	2,882.7	2,874.8	10.1	10.4	138.05	77.9	217.8	266.6	246.3	20.30	13.130		
3,000.0	2,998.2	2,984.4	2,976.0	10.5	10.8	138.20	83.6	224.8	279.7	258.7	21.04	13.295		
3,100.0	3,098.0	3,078.0	3,069.2	10.9	11.2	138.34	88.8	232.3	293.8	272.1	21.71	13.531		
3,200.0	3,197.7	3,180.0	3,170.7	11.2	11.6	138.48	94.6	240.5	308.0	285.6	22.46	13.718		
3,300.0	3,297.5	3,281.3	3,271.6	11.6	12.0	138.62	100.0	247.6	321.3	298.1	23.19	13.852		
3,400.0	3,397.2	3,370.2	3,359.9	12.0	12.3	138.66	105.5	255.6	336.4	312.6	23.82	14.121		
3,500.0	3,497.0	3,469.4	3,458.5	12.3	12.7	139.04	109.8	265.7	352.5	327.9	24.54	14.361		
3,600.0	3,596.7	3,568.6	3,557.2	12.7	13.1	139.60	112.8	275.8	368.3	343.0	25.26	14.577		
3,700.0	3,696.5	3,664.6	3,652.6	13.1	13.4	139.91	116.9	285.6	384.4	358.5	25.96	14.810		
3,800.0	3,796.2	3,764.8	3,752.1	13.4	13.8	140.30	120.6	296.2	400.9	374.2	26.69	15.021		
3,900.0	3,896.0	3,864.3	3,851.1	13.8	14.2	140.37	126.1	305.6	416.4	389.0	27.41	15.188		
4,000.0	3,995.7	3,966.2	3,952.4	14.2	14.6	140.61	130.6	315.5	432.1	403.9	28.16	15.343		
4,100.0	4,095.5	4,075.8	4,061.5	14.5	15.0	140.70	136.3	324.3	446.3	417.3	28.97	15.408		
4,200.0	4,195.2	4,176.7	4,161.7	14.9	15.4	140.22	145.5	330.0	458.8	429.1	29.70	15.445		
4,300.0	4,295.0	4,277.6	4,262.1	15.3	15.8	139.82	154.4	335.6	471.1	440.7	30.44	15.477		
4,400.0	4,394.8	4,379.7	4,363.8	15.6	16.2	139.47	162.9	340.8	482.9	451.7	31.18	15.486		
4,500.0	4,494.5	4,478.8	4,462.4	16.0	16.6	139.19	170.8	345.6	494.4	462.5	31.91	15.495		
4,600.0	4,594.3	4,564.2	4,547.4	16.4	16.9	139.04	177.2	351.0	507.3	474.8	32.53	15.593		
4,700.0	4,694.0	4,666.7	4,649.3	16.7	17.3	138.91	184.7	358.7	521.3	488.0	33.29	15.661		
4,800.0	4,793.8	4,769.0	4,751.2	17.1	17.7	138.77	192.1	365.6	534.6	500.6	34.04	15.707		
4,900.0	4,893.5	4,872.7	4,854.4	17.5	18.1	138.65	199.4	372.1	547.3	512.5	34.79	15.730		
5,000.0	4,993.3	4,985.2	4,966.6	17.9	18.5	138.74	204.8	377.3	558.1	522.5	35.60	15.678		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #134H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 14-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	5,093.0	5,088.0	5,069.2	18.2	18.9	138.90	208.8	381.0	567.6	531.3	36.34	15.622		
5,200.0	5,192.8	5,190.8	5,171.9	18.6	19.3	139.04	212.8	384.2	576.7	539.6	37.07	15.555		
5,300.0	5,292.5	5,300.3	5,281.3	19.0	19.6	139.29	215.8	386.8	584.9	547.1	37.83	15.460		
5,400.0	5,392.3	5,400.8	5,381.9	19.3	20.0	139.73	216.2	388.5	591.9	553.3	38.55	15.353		
5,500.0	5,492.0	5,502.0	5,483.0	19.7	20.3	140.15	216.7	389.9	598.8	559.5	39.27	15.247		
5,600.0	5,591.8	5,604.1	5,585.1	20.1	20.7	140.56	217.2	391.0	605.3	565.3	40.00	15.134		
5,700.0	5,691.6	5,706.2	5,687.2	20.4	21.1	140.95	217.7	391.7	611.5	570.8	40.72	15.017		
5,800.0	5,791.3	5,808.8	5,789.8	20.8	21.4	141.32	218.3	391.9	617.3	575.8	41.44	14.895		
5,900.0	5,891.1	5,910.0	5,891.0	21.2	21.7	141.69	218.6	391.8	622.7	580.5	42.15	14.773		
6,000.0	5,990.8	6,011.3	5,992.3	21.6	22.1	142.06	219.0	391.5	627.9	585.1	42.85	14.654		
6,100.0	6,090.6	6,111.8	6,092.8	21.9	22.4	142.44	219.1	391.0	633.0	589.5	43.54	14.538		
6,200.0	6,190.3	6,211.3	6,192.3	22.3	22.7	142.82	219.0	390.5	638.1	593.9	44.23	14.426		
6,300.0	6,290.1	6,312.3	6,293.3	22.7	23.0	143.22	218.8	390.0	643.2	598.2	44.92	14.318		
6,400.0	6,389.8	6,410.8	6,391.8	23.0	23.3	143.60	218.5	389.5	648.2	602.6	45.61	14.213		
6,500.0	6,489.6	6,512.1	6,493.1	23.4	23.7	143.99	218.3	388.9	653.3	607.0	46.30	14.110		
6,600.0	6,589.3	6,613.0	6,594.0	23.8	24.0	144.37	217.9	388.1	658.2	611.2	46.99	14.007		
6,700.0	6,689.1	6,712.5	6,693.5	24.2	24.3	144.76	217.4	387.4	663.1	615.4	47.68	13.907		
6,800.0	6,788.8	6,812.8	6,793.8	24.5	24.6	145.17	216.6	386.5	668.0	619.6	48.37	13.809		
6,900.0	6,888.6	6,911.2	6,892.2	24.9	24.9	145.58	215.7	385.8	673.0	623.9	49.06	13.717		
7,000.0	6,988.4	7,010.9	6,991.9	25.3	25.3	145.99	214.7	385.3	678.2	628.4	49.75	13.630		
7,100.0	7,088.1	7,110.8	7,091.8	25.7	25.6	146.40	213.8	384.6	683.2	632.8	50.45	13.544		
7,200.0	7,187.9	7,209.5	7,190.5	26.0	25.9	146.80	212.8	384.1	688.5	637.4	51.14	13.465		
7,300.0	7,287.6	7,309.8	7,290.7	26.4	26.2	147.21	211.6	383.6	693.9	642.0	51.83	13.386		
7,400.0	7,387.4	7,409.0	7,390.0	26.8	26.6	147.62	210.4	383.1	699.2	646.7	52.53	13.312		
7,500.0	7,487.1	7,508.9	7,489.9	27.1	26.9	148.03	209.0	382.6	704.7	651.4	53.22	13.240		
7,600.0	7,586.9	7,608.6	7,589.5	27.5	27.2	148.43	207.7	382.1	710.1	656.2	53.92	13.170		
7,700.0	7,686.6	7,708.3	7,689.2	27.9	27.5	148.84	206.3	381.7	715.6	661.0	54.61	13.103		
7,800.0	7,786.4	7,808.6	7,789.5	28.3	27.9	149.24	204.8	381.2	721.1	665.8	55.31	13.037		
7,900.0	7,886.1	7,910.8	7,891.7	28.6	28.2	149.66	203.2	380.5	726.4	670.4	56.01	12.968		
7,973.2	7,959.2	7,984.5	7,965.4	28.9	28.5	149.97	201.9	379.8	730.2	673.6	56.53	12.917		
8,000.0	7,985.9	8,005.4	7,986.3	29.0	28.5	150.06	201.6	379.6	731.5	674.8	56.69	12.903		
8,100.0	8,085.8	8,099.6	8,080.4	29.4	28.8	150.34	200.8	380.1	736.3	678.9	57.38	12.833		
8,200.0	8,185.7	8,202.2	8,183.0	29.7	29.2	150.51	200.1	380.5	738.8	680.7	58.09	12.720		
8,241.3	8,227.0	8,245.2	8,226.0	29.9	29.3	90.58	199.8	380.5	739.1	680.7	58.38	12.660		
8,275.7	8,261.4	8,279.5	8,260.4	30.0	29.4	90.59	199.8	380.5	739.0	680.4	58.62	12.608		
8,300.0	8,285.7	8,298.7	8,279.6	30.1	29.5	90.58	199.9	380.6	739.1	680.4	58.76	12.578		
8,400.0	8,385.7	8,403.3	8,384.1	30.4	29.9	90.46	201.5	381.1	739.6	680.1	59.48	12.433		
8,500.0	8,485.7	8,510.4	8,491.2	30.8	30.2	90.31	203.4	380.7	739.3	679.1	60.21	12.279		
8,600.0	8,585.7	8,608.6	8,589.3	31.1	30.6	90.13	205.7	379.6	738.1	677.2	60.90	12.121		
8,646.9	8,632.6	8,650.9	8,631.6	31.3	30.7	90.03	207.0	379.5	738.0	676.8	61.21	12.056		
8,700.0	8,685.7	8,685.5	8,666.3	31.5	30.9	89.95	208.0	379.9	738.7	677.2	61.50	12.011		
8,800.0	8,785.7	8,788.8	8,769.5	31.8	31.2	89.76	210.5	382.4	741.0	678.8	62.23	11.909		
8,900.0	8,885.7	8,894.2	8,874.8	32.2	31.6	89.53	213.5	384.2	742.7	679.8	62.96	11.797		
9,000.0	8,985.7	8,997.5	8,978.0	32.5	32.0	89.33	216.1	385.3	743.8	680.1	63.68	11.681		
9,100.0	9,085.7	9,101.8	9,082.4	32.8	32.3	89.21	217.7	385.9	744.5	680.1	64.40	11.560		
9,200.0	9,185.7	9,206.5	9,187.0	33.2	32.7	89.12	218.8	385.9	744.4	679.3	65.12	11.432		
9,300.0	9,285.7	9,312.8	9,293.4	33.5	33.1	89.11	219.0	385.1	743.8	677.9	65.83	11.298		
9,400.0	9,385.7	9,408.6	9,389.2	33.9	33.4	89.15	218.4	384.1	742.7	676.1	66.51	11.167		
9,415.6	9,401.3	9,419.8	9,400.3	33.9	33.4	89.16	218.3	384.0	742.6	676.0	66.60	11.150		
9,500.0	9,485.7	9,499.9	9,480.5	34.2	33.7	89.27	216.8	384.4	743.0	675.8	67.17	11.062		
9,600.0	9,585.7	9,604.7	9,585.2	34.6	34.0	89.48	214.1	384.8	743.4	675.5	67.87	10.952		
9,700.0	9,685.7	9,704.6	9,685.1	34.9	34.4	89.69	211.5	384.7	743.2	674.7	68.56	10.840		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #134H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 14-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		
9,720.8	9,706.6	9,725.1	9,705.6	35.0	34.4	89.72	211.0	384.7	743.2	674.5	68.71	10.817		
9,800.0	9,785.7	9,802.5	9,782.9	35.3	34.7	89.88	209.0	384.8	743.3	674.1	69.25	10.734		
9,900.0	9,885.7	9,897.1	9,877.5	35.6	35.0	90.06	206.7	385.4	743.9	674.0	69.92	10.640		
10,000.0	9,985.7	10,000.1	9,980.5	36.0	35.4	90.24	204.2	386.3	744.9	674.2	70.62	10.547		
10,100.0	10,085.7	10,120.6	10,100.6	36.3	35.8	90.87	196.0	385.6	744.3	672.9	71.37	10.429		
10,200.0	10,185.7	10,220.0	10,197.0	36.7	36.1	92.68	172.6	383.2	742.6	670.5	72.03	10.309		
10,285.7	10,271.4	10,299.7	10,270.4	37.0	36.3	95.05	142.2	380.3	741.6	669.1	72.56	10.221		
10,300.0	10,285.7	10,314.1	10,283.1	37.0	36.3	95.58	135.3	379.6	741.6	669.0	72.64	10.209		
10,400.0	10,385.7	10,387.8	10,345.4	37.4	36.5	98.60	96.3	376.2	744.1	671.0	73.08	10.181		
10,500.0	10,485.7	10,450.3	10,394.1	37.7	36.6	101.60	57.2	373.4	752.6	679.5	73.19	10.284		
10,600.0	10,585.7	10,494.1	10,425.9	38.1	36.6	103.87	27.0	372.0	769.1	696.4	72.71	10.577		
10,700.0	10,685.7	10,545.0	10,460.6	38.4	36.7	106.60	-10.1	370.9	793.4	721.5	71.93	11.029		
10,800.0	10,785.7	10,600.7	10,495.2	38.8	36.8	109.76	-53.8	368.7	825.1	754.2	70.92	11.634		
10,900.0	10,885.7	10,650.6	10,523.0	39.1	36.9	112.68	-95.0	364.9	863.4	793.9	69.55	12.414		
11,000.0	10,985.7	10,689.1	10,541.7	39.5	37.0	115.03	-128.3	360.4	908.7	841.0	67.74	13.414		
11,100.0	11,085.7	10,711.4	10,551.4	39.8	37.1	116.41	-148.2	357.4	960.9	895.4	65.52	14.665		
11,200.0	11,185.7	10,729.0	10,558.5	40.2	37.1	117.50	-164.1	355.1	1,019.5	956.2	63.22	16.125		
11,300.0	11,285.7	10,742.7	10,563.6	40.5	37.1	118.35	-176.7	353.4	1,083.7	1,022.7	60.95	17.781		
11,400.0	11,385.7	10,747.8	10,565.3	40.9	37.2	118.67	-181.5	352.7	1,152.6	1,093.9	58.66	19.647		
11,500.0	11,485.7	10,756.4	10,568.1	41.2	37.2	119.20	-189.5	351.7	1,225.6	1,168.9	56.65	21.636		
11,600.0	11,585.7	10,764.0	10,570.4	41.6	37.2	119.67	-196.7	350.8	1,302.0	1,247.2	54.82	23.751		
11,700.0	11,685.7	10,770.1	10,572.2	42.0	37.2	120.05	-202.5	350.1	1,381.2	1,328.1	53.17	25.975		
11,800.0	11,785.7	10,778.1	10,574.4	42.3	37.2	120.54	-210.2	349.2	1,462.9	1,411.1	51.76	28.263		
11,900.0	11,885.7	10,787.0	10,576.6	42.7	37.3	121.09	-218.7	348.1	1,546.6	1,496.1	50.54	30.603		
11,941.3	11,927.0	10,798.4	10,579.5	42.8	37.3	121.79	-229.7	346.8	1,581.6	1,531.4	50.20	31.507		
11,950.0	11,935.7	10,797.6	10,579.3	42.8	37.3	-56.65	-228.8	346.9	1,589.0	1,539.0	50.08	31.730		
12,000.0	11,985.6	10,805.2	10,581.2	43.0	37.3	-50.05	-236.2	346.0	1,631.0	1,581.4	49.57	32.900		
12,050.0	12,035.1	10,811.3	10,582.6	43.1	37.3	-44.59	-242.0	345.2	1,671.7	1,622.7	49.03	34.094		
12,100.0	12,083.7	10,811.3	10,582.6	43.3	37.3	-40.27	-242.0	345.2	1,711.2	1,662.8	48.41	35.351		
12,150.0	12,131.2	10,825.0	10,585.6	43.4	37.4	-36.26	-255.3	343.6	1,749.0	1,701.0	47.96	36.466		
12,200.0	12,177.0	10,825.0	10,585.6	43.6	37.4	-33.30	-255.3	343.6	1,784.9	1,737.6	47.34	37.702		
12,250.0	12,221.0	10,832.5	10,587.1	43.7	37.4	-30.68	-262.6	342.8	1,818.9	1,772.1	46.83	38.841		
12,300.0	12,262.8	10,838.6	10,588.2	43.8	37.4	-28.52	-268.6	342.2	1,850.8	1,804.5	46.32	39.958		
12,350.0	12,301.9	10,844.2	10,589.2	43.9	37.4	-26.74	-274.1	341.7	1,880.4	1,834.6	45.83	41.032		
12,400.0	12,338.3	10,852.1	10,590.4	43.9	37.4	-25.23	-281.9	341.1	1,907.5	1,862.1	45.39	42.027		
12,450.0	12,371.5	10,852.1	10,590.4	44.0	37.4	-24.05	-281.9	341.1	1,932.2	1,887.2	44.91	43.018		
12,500.0	12,401.3	10,865.7	10,592.1	44.1	37.5	-22.95	-295.4	340.3	1,954.1	1,909.5	44.60	43.810		
12,550.0	12,427.5	10,888.9	10,594.6	44.1	37.5	-22.01	-318.4	339.1	1,973.1	1,928.7	44.40	44.436		
12,600.0	12,449.9	10,906.4	10,596.4	44.2	37.6	-21.30	-335.8	338.3	1,988.8	1,944.6	44.20	44.998		
12,650.0	12,468.3	10,920.0	10,597.7	44.3	37.6	-20.77	-349.3	337.8	2,001.4	1,957.4	44.01	45.476		
12,700.0	12,482.6	10,926.3	10,598.1	44.4	37.7	-20.41	-355.6	337.6	2,011.1	1,967.3	43.84	45.874		
12,750.0	12,492.7	10,933.4	10,598.5	44.5	37.7	-20.16	-362.7	337.5	2,017.8	1,974.0	43.74	46.129		
12,800.0	12,498.5	10,940.5	10,598.7	44.6	37.7	-20.02	-369.7	337.3	2,021.4	1,977.7	43.72	46.237		
12,841.3	12,500.0	10,946.9	10,598.7	44.7	37.7	-19.99	-376.1	337.2	2,022.1	1,978.4	43.76	46.213		
12,857.1	12,500.0	10,946.9	10,598.7	44.8	37.7	-19.99	-376.1	337.2	2,022.1	1,978.3	43.78	46.185		
12,900.0	12,500.0	10,960.3	10,598.5	44.9	37.8	-19.98	-389.5	337.0	2,022.4	1,978.5	43.89	46.078		
13,000.0	12,500.0	11,031.2	10,596.2	45.2	38.0	-19.93	-460.4	336.6	2,024.9	1,980.6	44.25	45.761		
13,100.0	12,500.0	11,248.2	10,595.1	45.6	39.0	-19.87	-677.3	336.3	2,025.2	1,980.2	45.00	45.003		
13,180.9	12,500.0	11,270.9	10,595.4	45.9	39.1	-19.86	-700.0	335.8	2,023.9	1,978.6	45.26	44.716		
13,200.0	12,500.0	11,277.8	10,595.3	46.0	39.1	-19.85	-706.9	335.7	2,023.9	1,978.6	45.34	44.641		
13,300.0	12,500.0	11,334.7	10,593.2	46.5	39.4	-19.78	-763.8	334.1	2,025.9	1,980.1	45.83	44.206		
13,400.0	12,500.0	11,481.8	10,588.4	47.0	40.3	-19.61	-910.7	330.6	2,028.2	1,981.7	46.52	43.596		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #134H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 14-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	12,500.0	11,640.5	10,590.8	47.6	41.4	-19.63	-1,069.4	331.8	2,026.6	1,979.0	47.55	42.622		
13,600.0	12,500.0	11,738.9	10,593.6	48.2	42.2	-19.67	-1,167.8	333.0	2,024.0	1,975.6	48.41	41.808		
13,670.7	12,500.0	11,760.9	10,593.9	48.7	42.3	-19.67	-1,189.8	333.1	2,023.1	1,974.3	48.83	41.436		
13,700.0	12,500.0	11,778.2	10,593.7	48.9	42.5	-19.66	-1,207.0	333.1	2,023.2	1,974.2	49.04	41.260		
13,800.0	12,500.0	11,862.3	10,593.1	49.6	43.2	-19.67	-1,291.1	334.0	2,024.1	1,974.2	49.91	40.553		
13,900.0	12,500.0	11,924.9	10,591.9	50.4	43.7	-19.68	-1,353.7	335.6	2,026.4	1,975.7	50.78	39.904		
14,000.0	12,500.0	12,119.7	10,590.2	51.2	45.5	-19.70	-1,548.4	338.1	2,027.6	1,975.4	52.20	38.842		
14,042.5	12,500.0	12,132.9	10,590.3	51.6	45.6	-19.70	-1,561.6	338.2	2,027.3	1,974.8	52.52	38.600		
14,100.0	12,500.0	12,193.1	10,590.0	52.0	46.2	-19.68	-1,621.8	338.0	2,027.3	1,974.2	53.14	38.151		
14,200.0	12,500.0	12,292.7	10,589.6	52.9	47.2	-19.62	-1,721.4	336.7	2,027.0	1,972.8	54.21	37.393		
14,202.3	12,500.0	12,292.7	10,589.6	52.9	47.2	-19.62	-1,721.4	336.7	2,027.0	1,972.8	54.22	37.382		
14,300.0	12,500.0	12,353.6	10,588.0	53.8	47.8	-19.55	-1,782.2	335.3	2,028.3	1,973.1	55.14	36.786		
14,400.0	12,500.0	12,461.7	10,585.3	54.8	49.0	-19.47	-1,890.3	334.0	2,029.9	1,973.6	56.29	36.061		
14,500.0	12,500.0	12,576.2	10,583.6	55.8	50.2	-19.42	-2,004.8	333.6	2,031.0	1,973.5	57.54	35.298		
14,600.0	12,500.0	12,659.4	10,582.4	56.8	51.1	-19.38	-2,088.0	333.2	2,031.9	1,973.3	58.68	34.627		
14,700.0	12,500.0	12,738.7	10,579.9	57.8	52.0	-19.31	-2,167.2	331.8	2,034.1	1,974.3	59.80	34.015		
14,800.0	12,500.0	12,894.5	10,579.8	58.9	53.9	-19.36	-2,323.0	335.2	2,034.2	1,972.8	61.44	33.110		
14,827.8	12,500.0	12,918.5	10,580.1	59.2	54.2	-19.39	-2,346.9	336.1	2,034.2	1,972.4	61.81	32.911		
14,900.0	12,500.0	12,977.9	10,580.5	60.0	54.9	-19.43	-2,406.3	338.2	2,034.4	1,971.7	62.75	32.419		
15,000.0	12,500.0	13,081.9	10,580.9	61.1	56.2	-19.52	-2,510.2	342.1	2,035.1	1,970.9	64.22	31.689		
15,100.0	12,500.0	13,167.7	10,581.4	62.3	57.2	-19.60	-2,596.0	345.7	2,035.7	1,970.0	65.62	31.024		
15,200.0	12,500.0	13,241.4	10,580.5	63.5	58.2	-19.63	-2,669.6	347.5	2,037.4	1,970.5	66.91	30.450		
15,300.0	12,500.0	13,311.1	10,578.2	64.7	59.1	-19.61	-2,739.3	348.3	2,040.6	1,972.4	68.17	29.932		
15,400.0	12,500.0	13,532.6	10,576.2	65.9	62.0	-19.67	-2,960.6	352.8	2,042.3	1,972.0	70.35	29.030		
15,500.0	12,500.0	13,660.1	10,581.2	67.1	63.7	-19.74	-3,088.0	354.5	2,038.7	1,966.6	72.07	28.289		
15,600.0	12,500.0	13,707.4	10,582.0	68.3	64.3	-19.71	-3,135.3	353.5	2,036.3	1,963.1	73.21	27.813		
15,629.5	12,500.0	13,720.7	10,581.9	68.7	64.5	-19.69	-3,148.6	353.1	2,036.2	1,962.6	73.55	27.685		
15,700.0	12,500.0	13,765.6	10,580.7	69.6	65.1	-19.63	-3,193.4	351.3	2,036.7	1,962.3	74.39	27.378		
15,800.0	12,500.0	13,846.4	10,577.4	70.9	66.2	-19.46	-3,274.0	346.9	2,038.4	1,962.8	75.63	26.954		
15,900.0	12,500.0	13,927.5	10,573.1	72.2	67.3	-19.27	-3,354.9	341.7	2,041.2	1,964.3	76.84	26.565		
16,000.0	12,500.0	14,025.8	10,568.5	73.5	68.6	-19.09	-3,452.9	337.5	2,043.9	1,965.8	78.18	26.146		
16,100.0	12,500.0	14,162.9	10,564.0	74.8	70.5	-18.96	-3,589.9	335.0	2,046.1	1,966.3	79.79	25.645		
16,200.0	12,500.0	14,234.1	10,562.2	76.2	71.5	-18.91	-3,661.1	334.4	2,048.1	1,967.0	81.12	25.247		
16,300.0	12,500.0	14,387.2	10,559.7	77.5	73.7	-18.89	-3,814.1	335.5	2,049.7	1,966.7	82.98	24.701		
16,400.0	12,500.0	14,565.2	10,565.0	78.9	76.3	-19.06	-3,991.9	341.4	2,047.4	1,962.2	85.23	24.024		
16,500.0	12,500.0	14,635.1	10,567.5	80.2	77.3	-19.11	-4,061.7	343.0	2,044.6	1,957.9	86.70	23.581		
16,556.4	12,500.0	14,648.9	10,567.7	81.0	77.5	-19.11	-4,075.5	343.2	2,043.9	1,956.6	87.36	23.398		
16,600.0	12,500.0	14,655.4	10,567.6	81.6	77.6	-19.11	-4,082.1	343.2	2,044.3	1,956.5	87.83	23.277		
16,700.0	12,500.0	14,732.2	10,565.3	83.0	78.7	-19.06	-4,158.8	342.8	2,046.8	1,957.5	89.24	22.936		
16,800.0	12,500.0	14,807.9	10,562.2	84.4	79.8	-19.02	-4,234.4	342.6	2,050.3	1,959.6	90.64	22.620		
16,900.0	12,500.0	15,005.3	10,562.6	85.8	82.7	-19.16	-4,431.5	349.3	2,049.9	1,956.9	93.05	22.030		
16,925.2	12,500.0	15,018.9	10,562.8	86.2	82.9	-19.17	-4,445.1	349.9	2,049.8	1,956.4	93.41	21.944		
17,000.0	12,500.0	15,061.5	10,562.4	87.2	83.5	-19.17	-4,487.8	350.5	2,050.5	1,956.1	94.44	21.712		
17,100.0	12,500.0	15,171.5	10,561.3	88.7	85.2	-19.18	-4,597.7	352.0	2,051.7	1,955.5	96.16	21.336		
17,200.0	12,500.0	15,258.8	10,560.3	90.1	86.5	-19.19	-4,685.0	353.4	2,053.1	1,955.3	97.74	21.005		
17,300.0	12,500.0	15,348.4	10,559.2	91.5	87.8	-19.23	-4,774.6	355.9	2,054.9	1,955.5	99.39	20.675		
17,400.0	12,500.0	15,436.4	10,557.8	93.0	89.1	-19.30	-4,862.4	359.8	2,057.6	1,956.5	101.07	20.358		
17,500.0	12,500.0	15,562.6	10,557.8	94.4	91.1	-19.43	-4,988.6	365.6	2,058.6	1,955.5	103.10	19.968		
17,600.0	12,500.0	15,682.8	10,556.6	95.9	92.9	-19.46	-5,108.7	368.1	2,060.1	1,955.1	104.95	19.629		
17,700.0	12,500.0	15,794.8	10,555.6	97.4	94.6	-19.43	-5,220.7	368.0	2,060.7	1,954.1	106.66	19.320		
17,709.6	12,500.0	15,802.8	10,555.5	97.5	94.7	-19.42	-5,228.6	368.0	2,060.7	1,953.9	106.81	19.293		
17,800.0	12,500.0	15,863.8	10,554.9	98.8	95.6	-19.40	-5,289.7	367.8	2,061.3	1,953.2	108.12	19.066		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #134H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 14-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
17,900.0	12,500.0	16,022.5	10,554.2	100.3	98.0	-19.40	-5,448.3	369.2	2,062.1	1,951.9	110.18	18.715		
18,000.0	12,500.0	16,153.2	10,558.1	101.8	100.0	-19.50	-5,578.9	372.6	2,059.9	1,947.7	112.21	18.357		
18,100.0	12,500.0	16,241.9	10,560.4	103.3	101.4	-19.49	-5,667.5	372.1	2,057.0	1,943.2	113.85	18.068		
18,162.5	12,500.0	16,255.4	10,560.4	104.2	101.6	-19.48	-5,681.1	372.0	2,056.3	1,941.7	114.61	17.942		
18,200.0	12,500.0	16,265.1	10,560.2	104.8	101.8	-19.48	-5,690.8	371.8	2,056.6	1,941.6	115.06	17.875		
18,300.0	12,500.0	16,322.7	10,557.8	106.3	102.6	-19.39	-5,748.3	369.7	2,059.1	1,942.7	116.34	17.699		
18,400.0	12,500.0	16,376.4	10,553.7	107.8	103.5	-19.24	-5,801.7	366.0	2,063.7	1,946.2	117.47	17.568		
18,500.0	12,500.0	16,473.7	10,545.3	109.3	104.9	-18.98	-5,898.5	359.8	2,069.5	1,950.8	118.74	17.429		
18,600.0	12,500.0	16,700.9	10,537.4	110.8	108.4	-18.86	-6,125.3	359.5	2,072.8	1,951.7	121.14	17.111		
18,700.0	12,500.0	16,808.8	10,537.9	112.3	110.1	-18.87	-6,233.2	360.7	2,072.6	1,949.6	122.93	16.859		
18,800.0	12,500.0	16,906.9	10,538.7	113.9	111.6	-18.88	-6,331.3	361.5	2,071.7	1,947.1	124.65	16.620		
18,842.4	12,500.0	16,937.2	10,538.8	114.5	112.1	-18.88	-6,361.6	361.6	2,071.6	1,946.3	125.31	16.532		
18,900.0	12,500.0	16,972.3	10,538.5	115.4	112.7	-18.87	-6,396.7	361.5	2,071.9	1,945.8	126.13	16.426		
19,000.0	12,500.0	17,041.5	10,536.5	116.9	113.7	-18.81	-6,465.9	360.6	2,073.9	1,946.3	127.55	16.259		
19,100.0	12,500.0	17,213.6	10,532.6	118.4	116.4	-18.70	-6,637.9	358.9	2,076.1	1,946.5	129.55	16.025		
19,200.0	12,500.0	17,337.5	10,534.7	120.0	118.4	-18.73	-6,761.8	360.1	2,074.5	1,943.1	131.46	15.780		
19,300.0	12,500.0	17,467.2	10,538.5	121.5	120.4	-18.77	-6,891.4	361.4	2,071.8	1,938.4	133.43	15.528		
19,400.0	12,500.0	17,559.9	10,542.4	123.0	121.9	-18.81	-6,984.0	362.4	2,068.0	1,932.8	135.21	15.295		
19,500.0	12,500.0	17,626.5	10,543.8	124.6	122.9	-18.85	-7,050.5	364.1	2,066.3	1,929.4	136.84	15.100		
19,586.0	12,500.0	17,681.0	10,545.0	125.9	123.8	-18.89	-7,105.0	365.6	2,065.3	1,927.0	138.22	14.942		
19,600.0	12,500.0	17,681.0	10,545.0	126.1	123.8	-18.89	-7,105.0	365.6	2,065.3	1,926.9	138.37	14.925		
19,700.0	12,500.0	17,743.4	10,544.1	127.7	124.8	-18.92	-7,167.4	367.3	2,067.2	1,927.3	139.90	14.776		
19,800.0	12,500.0	17,827.8	10,542.2	129.2	126.1	-18.95	-7,251.8	370.0	2,070.1	1,928.5	141.60	14.619		
19,900.0	12,500.0	17,910.4	10,540.1	130.8	127.4	-19.02	-7,334.2	373.8	2,073.7	1,930.4	143.33	14.468		
20,000.0	12,500.0	18,153.6	10,540.4	132.3	131.3	-19.20	-7,577.2	382.6	2,074.8	1,928.4	146.40	14.172		
20,100.0	12,500.0	18,232.6	10,543.7	133.9	132.5	-19.27	-7,656.0	384.8	2,071.7	1,923.5	148.20	13.979		
20,150.5	12,500.0	18,246.0	10,543.9	134.7	132.7	-19.28	-7,669.4	385.1	2,071.2	1,922.4	148.88	13.912		
20,200.0	12,500.0	18,277.9	10,543.8	135.5	133.3	-19.28	-7,701.3	385.5	2,071.5	1,921.9	149.64	13.843		
20,300.0	12,500.0	18,366.6	10,542.1	137.0	134.7	-19.24	-7,790.0	385.0	2,072.8	1,921.6	151.23	13.706		
20,400.0	12,500.0	18,458.6	10,542.1	138.6	136.1	-19.33	-7,881.9	389.0	2,074.0	1,920.9	153.13	13.545		
20,500.0	12,500.0	18,556.6	10,541.2	140.1	137.7	-19.42	-7,979.7	393.8	2,076.3	1,921.2	155.09	13.388		
20,600.0	12,500.0	18,650.6	10,541.0	141.7	139.2	-19.53	-8,073.6	398.9	2,078.0	1,921.0	157.05	13.231		
20,700.0	12,500.0	18,745.5	10,539.0	143.3	140.7	-19.55	-8,168.4	401.0	2,080.5	1,921.7	158.83	13.099		
20,800.0	12,500.0	18,833.9	10,535.5	144.9	142.1	-19.45	-8,256.7	398.9	2,083.2	1,922.9	160.29	12.996		
20,900.0	12,500.0	19,050.6	10,531.6	146.4	145.6	-19.32	-8,473.3	396.9	2,085.4	1,922.9	162.54	12.830		
21,000.0	12,500.0	19,151.6	10,534.5	148.0	147.2	-19.34	-8,574.3	397.5	2,082.8	1,918.4	164.37	12.671		
21,100.0	12,500.0	19,255.1	10,538.0	149.6	148.8	-19.38	-8,677.7	398.5	2,079.6	1,913.3	166.25	12.508		
21,200.0	12,500.0	19,299.8	10,538.5	151.2	149.5	-19.38	-8,722.4	398.9	2,078.3	1,910.5	167.74	12.390		
21,207.6	12,500.0	19,303.9	10,538.5	151.3	149.6	-19.38	-8,726.4	398.9	2,078.2	1,910.4	167.85	12.381		
21,300.0	12,500.0	19,349.1	10,538.0	152.7	150.3	-19.37	-8,771.7	399.1	2,079.3	1,910.1	169.15	12.293		
21,400.0	12,500.0	19,475.8	10,534.7	154.3	152.4	-19.35	-8,898.3	400.4	2,082.0	1,910.9	171.08	12.170		
21,500.0	12,500.0	19,617.4	10,536.6	155.9	154.6	-19.49	-9,039.7	406.2	2,081.8	1,908.4	173.46	12.002		
21,544.5	12,500.0	19,641.0	10,537.0	156.6	155.0	-19.51	-9,063.3	406.8	2,081.5	1,907.4	174.16	11.952		
21,600.0	12,500.0	19,664.9	10,536.6	157.5	155.4	-19.50	-9,087.3	406.7	2,082.0	1,907.1	174.91	11.903		
21,700.0	12,500.0	19,730.7	10,534.4	159.1	156.5	-19.43	-9,153.0	405.4	2,084.3	1,908.0	176.27	11.824		
21,800.0	12,500.0	19,798.5	10,530.7	160.7	157.5	-19.34	-9,220.7	403.6	2,088.3	1,910.7	177.55	11.762		
21,900.0	12,500.0	19,879.4	10,525.2	162.3	158.8	-19.21	-9,301.4	401.3	2,093.5	1,914.7	178.85	11.706		
22,000.0	12,500.0	20,046.5	10,517.5	163.8	161.5	-18.99	-9,468.1	396.7	2,096.2	1,915.5	180.68	11.601		
22,100.0	12,500.0	20,173.2	10,513.5	165.4	163.5	-18.87	-9,594.8	394.3	2,098.4	1,916.0	182.37	11.506		
22,200.0	12,500.0	20,343.9	10,516.5	167.0	166.3	-18.90	-9,765.3	395.8	2,096.0	1,911.3	184.65	11.351		
22,280.5	12,500.0	20,377.9	10,517.0	168.3	166.8	-18.91	-9,799.4	396.1	2,095.0	1,909.2	185.84	11.273		
22,300.0	12,500.0	20,384.1	10,517.0	168.6	166.9	-18.90	-9,805.6	396.1	2,095.1	1,909.0	186.10	11.258		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #134H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 14-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		
22,400.0	12,500.0	20,440.7	10,515.4	170.2	167.8	-18.87	-9,862.2	395.6	2,096.9	1,909.5	187.46	11.186		
22,500.0	12,500.0	20,530.9	10,512.2	171.8	169.3	-18.80	-9,952.3	394.8	2,099.8	1,910.8	188.99	11.111		
22,600.0	12,500.0	20,728.3	10,507.6	173.4	172.5	-18.69	-10,149.6	393.4	2,102.5	1,911.3	191.15	10.999		
22,700.0	12,500.0	20,815.0	10,508.4	175.0	173.9	-18.68	-10,236.3	393.5	2,101.3	1,908.5	192.85	10.896		
22,795.8	12,500.0	20,893.4	10,508.6	176.5	175.1	-18.66	-10,314.7	393.4	2,100.9	1,906.5	194.40	10.807		
22,800.0	12,500.0	20,896.2	10,508.6	176.6	175.2	-18.66	-10,317.4	393.4	2,100.9	1,906.4	194.46	10.803		
22,900.0	12,500.0	21,129.4	10,512.9	178.2	178.9	-18.57	-10,550.5	390.3	2,099.3	1,902.7	196.56	10.680		
23,000.0	12,500.0	21,188.7	10,515.8	179.8	179.9	-18.56	-10,609.8	389.4	2,094.0	1,895.8	198.21	10.564		
23,100.0	12,500.0	21,283.1	10,519.1	181.4	181.4	-18.52	-10,704.1	387.4	2,089.8	1,889.9	199.86	10.456		
23,200.0	12,500.0	21,336.6	10,520.6	183.0	182.3	-18.49	-10,757.5	386.1	2,086.5	1,885.1	201.36	10.362		
23,300.0	12,500.0	21,460.1	10,523.9	184.6	184.3	-18.55	-10,881.0	388.1	2,084.2	1,880.8	203.41	10.246		
23,400.0	12,500.0	21,572.8	10,528.9	186.2	186.1	-18.67	-10,993.5	392.1	2,080.8	1,875.3	205.59	10.121		
23,500.0	12,500.0	21,621.3	10,530.8	187.8	186.9	-18.71	-11,042.0	393.5	2,078.2	1,871.0	207.26	10.027		
23,575.0	12,500.0	21,673.3	10,531.2	189.0	187.7	-18.73	-11,093.9	394.1	2,077.8	1,869.3	208.49	9.966		
23,600.0	12,500.0	21,686.7	10,531.1	189.4	187.9	-18.72	-11,107.3	394.2	2,077.9	1,869.0	208.86	9.949		
23,700.0	12,500.0	23,700.0	10,529.1	191.0	220.7	-18.71	-11,222.7	395.4	2,079.8	1,852.0	227.81	9.130		
23,789.7	12,500.0	21,888.1	10,530.8	192.5	191.2	-18.81	-11,308.6	399.0	2,079.2	1,866.7	212.57	9.782		
23,800.0	12,500.0	21,892.7	10,530.8	192.6	191.3	-18.81	-11,313.2	399.1	2,079.3	1,866.5	212.73	9.774		
23,900.0	12,500.0	21,963.9	10,529.6	194.3	192.4	-18.80	-11,384.3	399.6	2,080.6	1,866.3	214.27	9.710		
24,000.0	12,500.0	22,067.6	10,527.4	195.9	194.1	-18.74	-11,488.0	398.8	2,082.2	1,866.2	215.92	9.643		
24,100.0	12,500.0	22,158.5	10,526.9	197.5	195.6	-18.81	-11,578.8	402.4	2,083.8	1,865.9	217.85	9.565		
24,200.0	12,500.0	22,223.1	10,526.9	199.1	196.6	-18.94	-11,643.2	408.1	2,086.4	1,866.7	219.73	9.495		
24,300.0	12,500.0	22,425.3	10,527.6	200.7	199.9	-19.21	-11,844.9	419.5	2,087.8	1,864.7	223.08	9.359		
24,348.4	12,500.0	22,447.5	10,527.6	201.5	200.3	-19.20	-11,867.2	419.4	2,087.5	1,863.7	223.78	9.328		
24,400.0	12,500.0	22,476.8	10,527.2	202.3	200.8	-19.18	-11,896.4	418.9	2,087.8	1,863.3	224.49	9.300		
24,500.0	12,500.0	22,637.7	10,526.9	203.9	203.4	-19.11	-12,057.3	417.5	2,087.4	1,861.0	226.45	9.218		
24,600.0	12,500.0	22,707.1	10,527.7	205.5	204.5	-19.10	-12,126.7	417.3	2,086.1	1,858.0	228.05	9.147		
24,621.6	12,500.0	22,720.9	10,527.6	205.9	204.7	-19.08	-12,140.4	417.0	2,086.0	1,857.7	228.35	9.135		
24,700.0	12,500.0	22,767.5	10,526.3	207.1	205.5	-19.00	-12,186.9	414.7	2,086.7	1,857.4	229.29	9.100		
24,800.0	12,500.0	22,847.2	10,522.5	208.8	206.8	-18.81	-12,266.4	409.3	2,088.7	1,858.4	230.34	9.068		
24,811.6	12,500.0	22,856.6	10,522.0	208.9	206.9	-18.79	-12,275.8	408.7	2,089.0	1,858.6	230.46	9.065 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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #204H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 216-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	89.57	1.3	170.0	170.0					
100.0	100.0	97.8	97.8	0.1	0.2	89.59	1.2	169.8	169.8	169.5	0.28	601.819		
200.0	200.0	198.6	198.6	0.5	0.3	89.65	1.0	169.1	169.1	168.3	0.80	212.107		
300.0	300.0	299.3	299.2	0.8	0.6	89.72	0.8	167.9	168.0	166.5	1.48	113.350		
400.0	400.0	399.9	399.9	1.2	1.0	89.70	0.9	166.4	166.4	164.2	2.20	75.625		
500.0	500.0	499.4	499.4	1.6	1.4	89.57	1.2	164.8	164.8	161.9	2.91	56.593		
600.0	600.0	598.9	598.9	1.9	1.7	89.27	2.1	163.5	163.5	159.9	3.62	45.118		
700.0	700.0	698.5	698.4	2.3	2.1	88.82	3.3	162.5	162.5	158.2	4.33	37.490		
800.0	800.0	798.2	798.1	2.6	2.4	88.22	5.0	161.7	161.8	156.7	5.05	32.059		
900.0	900.0	898.1	898.0	3.0	2.8	87.55	6.9	161.0	161.1	155.3	5.76	27.981		
1,000.0	1,000.0	998.4	998.2	3.4	3.1	86.83	8.9	160.2	160.5	154.0	6.47	24.792		
1,100.0	1,100.0	1,099.0	1,098.8	3.7	3.5	85.94	11.3	159.1	159.5	152.3	7.19	22.187		
1,200.0	1,200.0	1,199.1	1,198.9	4.1	3.8	84.92	14.0	157.7	158.3	150.4	7.91	20.023		
1,300.0	1,300.0	1,299.0	1,298.7	4.4	4.2	83.95	16.6	156.3	157.2	148.5	8.62	18.228		
1,364.6	1,364.6	1,361.9	1,361.6	4.7	4.4	83.33	18.2	155.6	156.7	147.6	9.08	17.265 CC		
1,400.0	1,400.0	1,396.0	1,395.7	4.8	4.5	82.97	19.2	155.7	156.9	147.5	9.32	16.824 ES		
1,500.0	1,500.0	1,492.2	1,491.9	5.1	4.9	81.85	22.5	157.2	158.9	148.9	10.02	15.861		
1,600.0	1,600.0	1,591.0	1,590.5	5.5	5.2	80.55	26.7	160.2	162.6	151.9	10.72	15.165		
1,700.0	1,700.0	1,690.1	1,689.4	5.9	5.6	79.08	31.6	163.6	166.8	155.4	11.42	14.605		
1,800.0	1,800.0	1,788.8	1,787.8	6.2	5.9	77.38	37.5	167.4	171.8	159.6	12.13	14.162		
1,900.0	1,900.0	1,887.4	1,886.2	6.6	6.3	75.41	44.6	171.5	177.5	164.7	12.83	13.834		
2,000.0	2,000.0	1,988.1	1,986.5	6.9	6.6	73.54	51.9	175.6	183.4	169.9	13.55	13.534		
2,100.0	2,100.0	2,089.1	2,087.2	7.3	7.0	72.15	58.2	179.5	189.5	175.2	14.27	13.279		
2,200.0	2,200.0	2,190.5	2,188.4	7.6	7.4	71.26	64.3	182.6	196.0	181.0	14.99	13.076		
2,300.0	2,299.9	2,291.4	2,289.0	8.0	7.7	70.68	70.4	184.7	202.9	187.2	15.71	12.916		
2,402.1	2,401.8	2,392.6	2,390.1	8.4	8.1	70.68	76.0	187.0	211.0	194.6	16.43	12.844		
2,500.0	2,499.4	2,489.1	2,486.4	8.7	8.5	70.68	80.4	189.8	219.7	202.6	17.12	12.834		
2,600.0	2,599.2	2,586.7	2,583.9	9.1	8.8	70.68	84.4	193.6	229.3	211.5	17.81	12.874		
2,700.0	2,698.9	2,685.2	2,682.2	9.4	9.2	70.68	88.0	198.4	239.7	221.2	18.51	12.948		
2,800.0	2,798.7	2,784.9	2,781.8	9.8	9.5	70.68	91.6	203.2	250.1	230.9	19.22	13.013		
2,900.0	2,898.4	2,886.0	2,882.6	10.1	9.9	70.68	95.2	207.8	260.3	240.4	19.94	13.055		
3,000.0	2,998.2	2,988.2	2,984.7	10.5	10.3	70.68	98.4	211.6	269.6	248.9	20.67	13.046		
3,100.0	3,098.0	3,088.5	3,084.9	10.9	10.6	70.68	101.4	214.5	278.2	256.8	21.38	13.009		
3,200.0	3,197.7	3,187.9	3,184.3	11.2	11.0	70.68	105.9	217.1	286.8	264.7	22.10	12.978		
3,300.0	3,297.5	3,284.8	3,281.0	11.6	11.3	70.68	111.2	219.7	295.8	273.0	22.80	12.975		
3,400.0	3,397.2	3,380.8	3,376.7	12.0	11.7	70.68	116.0	223.6	305.9	282.5	23.49	13.025		
3,500.0	3,497.0	3,477.0	3,472.7	12.3	12.0	70.68	120.7	228.6	317.2	293.0	24.18	13.117		
3,600.0	3,596.7	3,573.3	3,568.6	12.7	12.4	70.68	126.0	234.4	329.4	304.5	24.87	13.244		
3,700.0	3,696.5	3,669.3	3,664.3	13.1	12.7	70.68	131.2	241.1	342.5	317.0	25.56	13.403		
3,800.0	3,796.2	3,765.0	3,759.6	13.4	13.1	70.68	134.8	249.1	356.6	330.3	26.23	13.591		
3,900.0	3,896.0	3,865.2	3,859.4	13.8	13.5	70.68	138.0	258.0	371.0	344.1	26.96	13.763		
4,000.0	3,995.7	3,966.6	3,960.3	14.2	13.8	70.68	142.8	266.0	384.9	357.2	27.69	13.900		
4,100.0	4,095.5	4,068.8	4,062.1	14.5	14.2	70.68	148.5	273.2	398.1	369.7	28.44	14.000		
4,200.0	4,195.2	4,171.3	4,164.2	14.9	14.6	70.68	154.3	279.5	410.6	381.4	29.18	14.068		
4,300.0	4,295.0	4,272.2	4,264.8	15.3	15.0	70.68	160.8	285.0	422.4	392.5	29.92	14.118		
4,400.0	4,394.8	4,373.6	4,365.8	15.6	15.4	70.68	168.3	289.9	433.8	403.2	30.66	14.149		
4,500.0	4,494.5	4,476.3	4,468.1	16.0	15.7	70.68	176.2	294.1	444.6	413.2	31.41	14.154		
4,600.0	4,594.3	4,578.2	4,569.6	16.4	16.1	70.68	183.7	297.5	454.7	422.5	32.15	14.140		
4,700.0	4,694.0	4,678.3	4,669.5	16.7	16.5	70.68	191.3	300.6	464.5	431.6	32.89	14.124		
4,800.0	4,793.8	4,778.7	4,769.5	17.1	16.9	70.68	199.1	303.5	474.2	440.6	33.62	14.104		
4,900.0	4,893.5	4,879.4	4,869.9	17.5	17.3	70.68	206.4	306.3	483.7	449.3	34.36	14.077		
5,000.0	4,993.3	4,986.0	4,976.2	17.9	17.6	70.68	213.4	308.8	492.5	457.4	35.12	14.022		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #204H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 216-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	5,093.0	5,096.9	5,087.0	18.2	18.0	136.31	218.8	309.4	499.3	463.4	35.90	13.909		
5,200.0	5,192.8	5,208.9	5,198.9	18.6	18.4	136.45	222.7	307.8	503.8	467.2	36.65	13.746		
5,300.0	5,292.5	5,321.1	5,311.0	19.0	18.8	136.62	225.8	303.6	505.9	468.5	37.38	13.533		
5,400.0	5,392.3	5,405.0	5,394.8	19.3	19.1	136.79	227.9	301.4	508.9	470.9	38.07	13.367		
5,500.0	5,492.0	5,494.8	5,484.6	19.7	19.4	137.02	230.0	300.9	514.0	475.3	38.76	13.263		
5,600.0	5,591.8	5,597.5	5,587.3	20.1	19.8	137.32	232.3	301.0	519.8	480.3	39.49	13.163		
5,700.0	5,691.6	5,700.2	5,689.9	20.4	20.2	137.63	234.3	300.6	525.0	484.7	40.22	13.054		
5,800.0	5,791.3	5,802.4	5,792.1	20.8	20.5	137.96	235.9	299.8	529.7	488.7	40.94	12.939		
5,900.0	5,891.1	5,902.8	5,892.5	21.2	20.9	138.32	237.1	298.6	534.0	492.4	41.65	12.822		
6,000.0	5,990.8	6,000.1	5,989.8	21.6	21.2	138.75	237.5	297.9	538.7	496.3	42.34	12.722		
6,100.0	6,090.6	6,098.6	6,088.3	21.9	21.5	139.28	236.9	297.9	543.8	500.8	43.03	12.637		
6,200.0	6,190.3	6,199.1	6,188.8	22.3	21.8	139.83	236.3	297.8	548.9	505.2	43.72	12.555		
6,300.0	6,290.1	6,299.7	6,289.4	22.7	22.2	140.37	235.6	297.6	554.0	509.6	44.42	12.472		
6,400.0	6,389.8	6,400.5	6,390.2	23.0	22.5	140.87	235.1	297.1	558.9	513.8	45.11	12.389		
6,500.0	6,489.6	6,500.9	6,490.6	23.4	22.8	141.35	234.8	296.5	563.7	517.9	45.81	12.305		
6,600.0	6,589.3	6,601.1	6,590.8	23.8	23.2	141.82	234.4	295.8	568.5	522.0	46.51	12.223		
6,700.0	6,689.1	6,701.2	6,690.8	24.2	23.5	142.29	233.9	295.1	573.2	526.0	47.21	12.142		
6,800.0	6,788.8	6,801.2	6,790.8	24.5	23.8	142.77	233.3	294.3	577.9	530.0	47.90	12.064		
6,900.0	6,888.6	6,901.7	6,891.4	24.9	24.2	143.26	232.5	293.4	582.6	534.0	48.60	11.987		
7,000.0	6,988.4	7,002.3	6,992.0	25.3	24.5	143.76	231.4	292.5	587.2	537.9	49.30	11.911		
7,100.0	7,088.1	7,103.3	7,093.0	25.7	24.8	144.27	230.2	291.4	591.6	541.6	50.00	11.833		
7,200.0	7,187.9	7,204.4	7,194.1	26.0	25.2	144.75	229.2	290.0	595.9	545.2	50.70	11.754		
7,300.0	7,287.6	7,306.1	7,295.7	26.4	25.5	145.20	228.5	288.3	600.0	548.6	51.41	11.671		
7,400.0	7,387.4	7,407.2	7,396.8	26.8	25.9	145.57	228.4	286.3	603.8	551.6	52.11	11.585		
7,500.0	7,487.1	7,506.5	7,496.1	27.1	26.2	145.94	228.3	284.3	607.5	554.7	52.82	11.503		
7,600.0	7,586.9	7,604.0	7,593.6	27.5	26.5	146.32	228.0	282.5	611.5	558.0	53.51	11.427		
7,700.0	7,686.6	7,697.8	7,687.3	27.9	26.8	146.69	227.6	281.5	616.3	562.1	54.19	11.372		
7,800.0	7,786.4	7,793.7	7,783.3	28.3	27.2	147.09	226.9	281.4	622.0	567.1	54.88	11.334		
7,900.0	7,886.1	7,894.3	7,883.9	28.6	27.5	147.51	226.2	281.4	627.8	572.2	55.58	11.297		
7,973.2	7,959.2	7,968.2	7,957.7	28.9	27.7	147.82	225.5	281.3	632.0	575.9	56.09	11.268		
8,000.0	7,955.9	7,995.4	7,984.9	29.0	27.8	147.94	225.3	281.2	633.5	577.2	56.28	11.256		
8,100.0	8,055.8	8,097.1	8,086.6	29.4	28.2	148.28	224.5	280.8	637.3	580.3	56.98	11.183		
8,200.0	8,155.7	8,196.6	8,186.2	29.7	28.5	148.48	223.7	280.1	638.6	581.0	57.68	11.073		
8,241.3	8,227.0	8,237.0	8,226.5	29.9	28.7	88.57	223.3	279.9	638.6	580.7	57.96	11.019		
8,300.0	8,285.7	8,294.4	8,284.0	30.1	28.8	88.62	222.8	279.8	638.5	580.1	58.36	10.941		
8,400.0	8,385.7	8,394.4	8,384.0	30.4	29.2	88.70	221.8	279.7	638.3	579.3	59.05	10.811		
8,500.0	8,485.7	8,495.8	8,485.3	30.8	29.5	88.77	221.1	279.4	638.0	578.3	59.74	10.680		
8,600.0	8,585.7	8,598.2	8,587.8	31.1	29.9	88.82	220.5	278.8	637.5	577.0	60.44	10.546		
8,700.0	8,685.7	8,701.1	8,690.6	31.5	30.2	88.87	219.9	277.8	636.5	575.3	61.15	10.409		
8,800.0	8,785.7	8,802.4	8,791.9	31.8	30.6	88.85	220.1	276.4	635.1	573.3	61.85	10.268		
8,900.0	8,885.7	8,903.5	8,893.0	32.2	30.9	88.63	222.5	274.8	633.6	571.0	62.56	10.128		
9,000.0	8,985.7	9,000.3	8,989.7	32.5	31.3	88.44	224.6	273.5	632.2	569.0	63.25	9.996		
9,100.0	9,085.7	9,097.8	9,087.2	32.8	31.6	88.41	224.9	272.6	631.4	567.4	63.94	9.875		
9,200.0	9,185.7	9,202.0	9,191.5	33.2	32.0	88.46	224.3	271.5	630.3	565.7	64.65	9.750		
9,300.0	9,285.7	9,302.0	9,291.4	33.5	32.3	88.49	223.9	269.9	628.7	563.3	65.35	9.621		
9,365.8	9,351.5	9,359.1	9,348.5	33.8	32.5	88.53	223.5	269.5	628.2	562.4	65.77	9.552		
9,400.0	9,385.7	9,388.8	9,378.2	33.9	32.6	88.56	223.2	269.6	628.3	562.4	65.98	9.523		
9,500.0	9,485.7	9,476.2	9,465.6	34.2	32.9	88.67	222.0	271.2	630.1	563.5	66.60	9.461		
9,600.0	9,585.7	9,570.4	9,559.7	34.6	33.2	88.83	220.3	274.3	633.3	566.0	67.25	9.418		
9,700.0	9,685.7	9,665.6	9,654.8	34.9	33.6	89.02	218.3	278.2	637.4	569.5	67.90	9.387		
9,800.0	9,785.7	9,773.3	9,762.4	35.3	33.9	89.19	216.4	282.3	641.2	572.5	68.65	9.339		
9,900.0	9,885.7	9,880.9	9,870.0	35.6	34.3	89.28	215.5	285.1	643.7	574.3	69.40	9.276		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #204H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 216-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,000.0	9,985.7	9,988.1	9,977.1	36.0	34.7	89.34	214.8	286.6	645.1	575.0	70.14	9.198		
10,100.0	10,085.7	10,092.1	10,081.1	36.3	35.0	89.40	214.1	287.1	645.6	574.7	70.85	9.112		
10,200.0	10,185.7	10,192.8	10,181.9	36.7	35.4	89.48	213.3	287.3	645.8	574.2	71.55	9.025		
10,300.0	10,285.7	10,293.5	10,282.5	37.0	35.7	89.55	212.5	287.4	645.9	573.6	72.25	8.939		
10,400.0	10,385.7	10,397.1	10,386.2	37.4	36.1	89.60	211.9	287.2	645.7	572.7	72.96	8.849		
10,500.0	10,485.7	10,500.0	10,489.1	37.7	36.4	89.63	211.5	286.4	644.9	571.2	73.67	8.753		
10,600.0	10,585.7	10,598.7	10,587.7	38.1	36.8	89.69	210.9	285.5	644.0	569.6	74.37	8.659		
10,700.0	10,685.7	10,698.5	10,687.5	38.4	37.1	89.77	210.0	284.6	643.1	568.1	75.06	8.568		
10,765.2	10,750.9	10,759.2	10,747.9	38.7	37.3	90.27	204.4	284.4	642.9	567.4	75.49	8.516		
10,800.0	10,785.7	10,790.1	10,778.3	38.8	37.4	90.78	198.6	284.4	643.0	567.3	75.71	8.493		
10,900.0	10,885.7	10,876.5	10,862.1	39.1	37.7	92.64	177.7	285.4	644.9	568.7	76.27	8.456		
11,000.0	10,985.7	10,971.3	10,952.4	39.5	38.0	95.17	149.0	286.9	648.7	571.9	76.86	8.441		
11,100.0	11,085.7	11,050.7	11,026.2	39.8	38.2	97.71	119.8	288.5	655.3	578.1	77.24	8.484		
11,200.0	11,185.7	11,121.3	11,089.1	40.2	38.4	100.44	87.8	290.5	666.5	589.2	77.34	8.618		
11,300.0	11,285.7	11,185.5	11,141.6	40.5	38.6	103.51	51.1	292.0	683.7	606.7	77.04	8.875		
11,400.0	11,385.7	11,225.0	11,170.7	40.9	38.7	105.71	24.4	292.3	708.5	632.7	75.83	9.343		
11,500.0	11,485.7	11,274.0	11,202.9	41.2	38.8	108.67	-12.5	292.3	741.7	667.3	74.40	9.969		
11,600.0	11,585.7	11,318.0	11,228.2	41.6	38.9	111.47	-48.5	292.1	783.9	711.3	72.56	10.803		
11,700.0	11,685.7	11,337.0	11,238.1	42.0	38.9	112.70	-64.7	292.0	833.6	763.6	69.93	11.920		
11,800.0	11,785.7	11,369.5	11,254.0	42.3	39.0	114.80	-93.0	291.4	890.0	822.4	67.66	13.155		
11,900.0	11,885.7	11,397.4	11,266.8	42.7	39.1	116.61	-117.8	290.7	952.1	886.7	65.38	14.562		
11,941.3	11,927.0	11,413.0	11,273.5	42.8	39.1	117.61	-131.9	290.1	979.3	914.7	64.60	15.159		
11,950.0	11,935.7	11,413.0	11,273.5	42.8	39.1	-61.27	-131.9	290.1	985.1	920.7	64.35	15.307		
12,000.0	11,985.6	11,413.0	11,273.5	43.0	39.1	-57.48	-131.9	290.1	1,018.1	955.2	62.93	16.180		
12,050.0	12,035.1	11,413.0	11,273.5	43.1	39.1	-53.90	-131.9	290.1	1,050.8	989.3	61.52	17.082		
12,100.0	12,083.7	11,413.0	11,273.5	43.3	39.1	-50.59	-131.9	290.1	1,083.0	1,022.8	60.14	18.008		
12,150.0	12,131.2	11,446.5	11,286.4	43.4	39.2	-46.34	-162.8	289.0	1,112.7	1,053.1	59.58	18.675		
12,200.0	12,177.0	11,456.6	11,289.7	43.6	39.2	-43.44	-172.3	288.7	1,141.9	1,083.5	58.49	19.524		
12,250.0	12,221.0	11,467.1	11,293.0	43.7	39.3	-40.89	-182.3	288.4	1,169.8	1,112.3	57.45	20.363		
12,300.0	12,262.8	11,508.0	11,303.3	43.8	39.4	-37.95	-221.8	287.5	1,197.4	1,140.3	57.03	20.994		
12,350.0	12,301.9	11,508.0	11,303.3	43.9	39.4	-36.33	-221.8	287.5	1,221.0	1,165.2	55.87	21.854		
12,400.0	12,338.3	11,508.0	11,303.3	43.9	39.4	-34.89	-221.8	287.5	1,243.2	1,188.4	54.81	22.684		
12,450.0	12,371.5	11,508.0	11,303.3	44.0	39.4	-33.61	-221.8	287.5	1,263.8	1,209.9	53.85	23.468		
12,500.0	12,401.3	11,508.0	11,303.3	44.1	39.4	-32.50	-221.8	287.5	1,282.7	1,229.7	53.02	24.191		
12,550.0	12,427.5	11,508.0	11,303.3	44.1	39.4	-31.53	-221.8	287.5	1,299.9	1,247.5	52.34	24.836		
12,600.0	12,449.9	11,549.8	11,310.1	44.2	39.5	-30.42	-263.1	287.2	1,312.8	1,260.6	52.18	25.158		
12,650.0	12,468.3	11,562.6	11,311.4	44.3	39.5	-29.74	-275.8	287.3	1,324.5	1,272.7	51.82	25.562		
12,700.0	12,482.6	11,602.0	11,313.3	44.4	39.6	-29.11	-315.1	288.1	1,335.0	1,283.2	51.73	25.804		
12,750.0	12,492.7	11,602.0	11,313.3	44.5	39.6	-28.80	-315.1	288.1	1,341.2	1,289.7	51.50	26.042		
12,800.0	12,498.5	11,602.0	11,313.3	44.6	39.6	-28.60	-315.1	288.1	1,345.5	1,294.1	51.45	26.152		
12,841.3	12,500.0	11,642.8	11,313.6	44.7	39.8	-28.53	-355.9	289.2	1,347.0	1,295.4	51.60	26.106		
12,900.0	12,500.0	11,704.5	11,313.7	44.9	39.9	-28.56	-417.6	290.3	1,347.2	1,295.3	51.84	25.986		
13,000.0	12,500.0	11,827.7	11,315.4	45.2	40.4	-28.64	-540.8	292.5	1,346.4	1,294.0	52.41	25.690		
13,100.0	12,500.0	11,932.0	11,318.8	45.6	40.9	-28.78	-645.0	295.0	1,344.3	1,291.3	53.07	25.332		
13,200.0	12,500.0	12,016.4	11,319.9	46.0	41.3	-28.78	-729.4	295.3	1,343.0	1,289.4	53.62	25.045		
13,256.6	12,500.0	12,063.0	11,320.1	46.3	41.6	-28.78	-776.0	295.5	1,342.8	1,288.8	53.97	24.881		
13,300.0	12,500.0	12,092.3	11,320.0	46.5	41.7	-28.79	-805.3	295.9	1,343.0	1,288.7	54.23	24.766		
13,400.0	12,500.0	12,150.4	11,318.7	47.0	42.1	-28.78	-863.3	297.0	1,345.6	1,290.7	54.88	24.519		
13,500.0	12,500.0	12,234.7	11,314.5	47.6	42.6	-28.75	-947.5	299.1	1,350.7	1,295.0	55.63	24.279		
13,600.0	12,500.0	12,335.7	11,309.4	48.2	43.3	-28.72	-1,048.3	301.7	1,356.0	1,299.5	56.46	24.017		
13,700.0	12,500.0	12,431.9	11,305.0	48.9	44.0	-28.72	-1,144.4	304.9	1,361.3	1,303.9	57.38	23.725		
13,800.0	12,500.0	12,590.3	11,301.5	49.6	45.3	-28.79	-1,302.6	310.0	1,364.2	1,305.6	58.59	23.284		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #204H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 216-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.0	12,500.0	12,690.5	11,301.2	50.4	46.2	-28.88	-1,402.8	313.3	1,365.7	1,305.9	59.73	22.866		
14,000.0	12,500.0	12,795.2	11,302.0	51.2	47.1	-29.02	-1,507.4	317.3	1,366.5	1,305.5	60.98	22.408		
14,100.0	12,500.0	12,912.4	11,303.1	52.0	48.2	-29.15	-1,624.6	321.4	1,367.1	1,304.7	62.36	21.921		
14,200.0	12,500.0	13,032.8	11,306.3	52.9	49.4	-29.33	-1,744.8	325.3	1,365.9	1,302.1	63.87	21.386		
14,300.0	12,500.0	13,158.8	11,312.8	53.8	50.7	-29.59	-1,870.5	329.6	1,362.7	1,297.1	65.57	20.784		
14,400.0	12,500.0	13,242.4	11,316.4	54.8	51.6	-29.67	-1,954.1	330.5	1,359.2	1,292.4	66.87	20.326		
14,500.0	12,500.0	13,311.1	11,316.2	55.8	52.4	-29.59	-2,022.8	329.0	1,357.9	1,290.0	67.96	19.980		
14,600.0	12,500.0	13,421.9	11,314.0	56.8	53.6	-29.35	-2,133.4	324.4	1,357.2	1,288.1	69.18	19.620		
14,700.0	12,500.0	13,512.0	11,313.5	57.8	54.6	-29.23	-2,223.5	322.1	1,356.2	1,285.7	70.42	19.257		
14,711.5	12,500.0	13,519.2	11,313.4	58.0	54.7	-29.22	-2,230.7	322.0	1,356.1	1,285.6	70.56	19.220		
14,800.0	12,500.0	13,580.0	11,311.7	58.9	55.4	-29.13	-2,291.5	321.0	1,357.2	1,285.6	71.59	18.958		
14,900.0	12,500.0	13,684.0	11,308.0	60.0	56.6	-28.99	-2,395.4	319.9	1,359.5	1,286.5	72.95	18.637		
15,000.0	12,500.0	13,786.5	11,307.0	61.1	57.8	-29.01	-2,497.9	321.8	1,360.8	1,286.3	74.50	18.265		
15,100.0	12,500.0	13,856.4	11,305.6	62.3	58.7	-29.03	-2,567.7	323.6	1,363.4	1,287.6	75.88	17.968		
15,200.0	12,500.0	13,966.2	11,303.4	63.5	60.1	-29.09	-2,677.4	327.4	1,366.5	1,288.9	77.58	17.614		
15,300.0	12,500.0	14,043.0	11,300.5	64.7	61.0	-29.08	-2,754.1	329.4	1,370.6	1,291.6	79.02	17.345		
15,400.0	12,500.0	14,152.5	11,295.3	65.9	62.4	-29.02	-2,863.5	331.5	1,375.4	1,294.7	80.63	17.059		
15,500.0	12,500.0	14,245.2	11,291.7	67.1	63.6	-29.02	-2,956.1	334.2	1,379.8	1,297.6	82.22	16.783		
15,600.0	12,500.0	14,350.8	11,287.6	68.3	65.0	-29.03	-3,061.5	337.5	1,384.3	1,300.4	83.92	16.495		
15,700.0	12,500.0	14,474.7	11,284.6	69.6	66.7	-29.09	-3,185.3	341.7	1,387.7	1,301.9	85.84	16.167		
15,800.0	12,500.0	14,608.6	11,286.2	70.9	68.5	-29.34	-3,319.0	348.9	1,389.0	1,300.9	88.09	15.767		
15,900.0	12,500.0	14,714.8	11,287.7	72.2	70.0	-29.45	-3,425.2	351.8	1,388.7	1,298.7	90.00	15.430		
15,951.8	12,500.0	14,760.5	11,287.5	72.9	70.6	-29.43	-3,470.9	351.7	1,388.6	1,297.8	90.84	15.286		
16,000.0	12,500.0	14,804.8	11,286.9	73.5	71.2	-29.38	-3,515.1	351.0	1,388.7	1,297.1	91.59	15.162		
16,100.0	12,500.0	14,904.9	11,284.7	74.8	72.6	-29.23	-3,615.2	348.7	1,389.1	1,295.9	93.14	14.913		
16,200.0	12,500.0	15,019.2	11,282.9	76.2	74.1	-29.04	-3,729.4	345.3	1,388.6	1,293.9	94.76	14.655		
16,300.0	12,500.0	15,119.8	11,281.1	77.5	75.5	-28.83	-3,830.0	341.4	1,388.0	1,291.7	96.25	14.421		
16,400.0	12,500.0	15,232.8	11,279.5	78.9	77.1	-28.60	-3,942.9	336.6	1,386.8	1,289.0	97.80	14.180		
16,500.0	12,500.0	15,356.8	11,279.8	80.2	78.9	-28.38	-4,066.7	331.6	1,384.3	1,284.9	99.45	13.920		
16,600.0	12,500.0	15,463.8	11,281.9	81.6	80.4	-28.26	-4,173.6	327.9	1,380.6	1,279.5	101.11	13.654		
16,700.0	12,500.0	15,559.1	11,282.7	83.0	81.8	-28.05	-4,268.8	322.4	1,376.8	1,274.2	102.58	13.422		
16,800.0	12,500.0	15,653.0	11,283.7	84.4	83.1	-27.85	-4,362.5	317.2	1,373.0	1,268.9	104.06	13.194		
16,900.0	12,500.0	15,722.2	11,284.4	85.8	84.1	-27.78	-4,431.7	315.5	1,370.6	1,265.0	105.57	12.983		
16,938.1	12,500.0	15,748.0	11,284.1	86.4	84.5	-27.75	-4,457.5	315.0	1,370.5	1,264.3	106.13	12.913		
17,000.0	12,500.0	15,789.5	11,283.4	87.2	85.1	-27.71	-4,499.0	314.6	1,371.0	1,263.9	107.05	12.807		
17,100.0	12,500.0	15,872.2	11,281.1	88.7	86.3	-27.67	-4,581.7	315.2	1,373.4	1,264.7	108.67	12.638		
17,200.0	12,500.0	15,984.4	11,279.0	90.1	88.0	-27.69	-4,693.8	317.7	1,375.7	1,265.0	110.64	12.433		
17,300.0	12,500.0	16,077.7	11,278.7	91.5	89.4	-27.79	-4,787.0	321.5	1,377.5	1,264.9	112.61	12.232		
17,400.0	12,500.0	16,182.8	11,276.6	93.0	90.9	-27.82	-4,892.0	324.2	1,380.2	1,265.7	114.56	12.048		
17,500.0	12,500.0	16,301.5	11,276.8	94.4	92.7	-27.95	-5,010.7	328.3	1,381.2	1,264.5	116.78	11.828		
17,600.0	12,500.0	16,388.7	11,277.5	95.9	94.0	-28.07	-5,097.8	332.0	1,382.2	1,263.4	118.77	11.638		
17,700.0	12,500.0	16,482.9	11,277.4	97.4	95.4	-28.20	-5,191.9	336.3	1,384.1	1,263.2	120.84	11.454		
17,800.0	12,500.0	16,575.6	11,277.2	98.8	96.8	-28.34	-5,284.4	340.9	1,386.3	1,263.4	122.91	11.278		
17,900.0	12,500.0	16,716.4	11,276.6	100.3	99.0	-28.44	-5,425.2	345.1	1,387.8	1,262.5	125.32	11.074		
18,000.0	12,500.0	16,821.8	11,279.3	101.8	100.6	-28.61	-5,530.5	349.0	1,387.0	1,259.4	127.59	10.871		
18,054.0	12,500.0	16,864.4	11,280.0	102.6	101.2	-28.65	-5,573.1	350.2	1,386.8	1,258.1	128.63	10.781		
18,100.0	12,500.0	16,906.5	11,280.1	103.3	101.9	-28.67	-5,615.2	351.0	1,386.9	1,257.4	129.52	10.708		
18,200.0	12,500.0	17,019.1	11,279.7	104.8	103.6	-28.61	-5,727.8	350.4	1,386.6	1,255.2	131.43	10.550		
18,300.0	12,500.0	17,114.7	11,277.5	106.3	105.0	-28.37	-5,823.2	345.8	1,386.0	1,253.1	132.88	10.430		
18,328.3	12,500.0	17,139.0	11,276.6	106.7	105.4	-28.29	-5,847.5	344.2	1,386.0	1,252.7	133.25	10.401		
18,400.0	12,500.0	17,201.9	11,273.8	107.8	106.4	-28.06	-5,910.1	340.0	1,386.2	1,252.1	134.13	10.335		
18,500.0	12,500.0	17,297.6	11,270.1	109.3	107.8	-27.81	-6,005.7	335.7	1,387.2	1,251.6	135.53	10.235		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #204H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 216-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		
18,600.0	12,500.0	17,390.1	11,267.4	110.8	109.2	-27.64	-6,098.1	333.0	1,388.0	1,251.0	137.06	10.128		
18,700.0	12,500.0	17,460.0	11,264.6	112.3	110.3	-27.54	-6,167.9	332.4	1,390.8	1,252.3	138.52	10.041		
18,800.0	12,500.0	17,552.4	11,260.1	113.9	111.7	-27.44	-6,260.2	332.9	1,395.0	1,254.9	140.18	9.952		
18,900.0	12,500.0	17,668.9	11,255.6	115.4	113.5	-27.39	-6,376.7	334.5	1,398.7	1,256.5	142.16	9.839		
19,000.0	12,500.0	17,755.9	11,252.9	116.9	114.9	-27.40	-6,463.5	336.9	1,402.4	1,258.4	143.99	9.740		
19,100.0	12,500.0	17,855.4	11,249.8	118.4	116.5	-27.44	-6,563.0	340.3	1,406.4	1,260.4	146.00	9.633		
19,200.0	12,500.0	17,955.0	11,247.2	120.0	118.0	-27.51	-6,662.4	344.5	1,410.3	1,262.2	148.10	9.523		
19,300.0	12,500.0	18,048.2	11,244.7	121.5	119.5	-27.62	-6,755.4	349.6	1,414.9	1,264.7	150.21	9.419		
19,400.0	12,500.0	18,182.9	11,242.8	123.0	121.6	-27.76	-6,890.0	355.3	1,417.6	1,264.8	152.78	9.278		
19,500.0	12,500.0	18,292.7	11,240.6	124.6	123.3	-27.71	-6,999.7	356.1	1,419.3	1,264.6	154.73	9.173		
19,600.0	12,500.0	18,428.8	11,239.0	126.1	125.4	-27.60	-7,135.8	354.8	1,419.6	1,262.9	156.71	9.059		
19,700.0	12,500.0	18,544.5	11,237.9	127.7	127.2	-27.36	-7,251.4	349.5	1,418.1	1,259.8	158.22	8.962		
19,800.0	12,500.0	18,654.4	11,238.3	129.2	128.9	-27.15	-7,361.2	344.3	1,415.2	1,255.4	159.75	8.858		
19,900.0	12,500.0	18,740.3	11,239.0	130.8	130.3	-27.04	-7,447.0	341.6	1,412.6	1,251.2	161.38	8.753		
20,000.0	12,500.0	18,824.1	11,239.2	132.3	131.6	-26.97	-7,530.8	340.2	1,411.3	1,248.3	163.07	8.655		
20,100.0	12,500.0	18,928.4	11,240.4	133.9	133.2	-26.99	-7,635.1	341.0	1,410.3	1,245.2	165.10	8.542		
20,200.0	12,500.0	19,018.6	11,241.8	135.5	134.7	-27.05	-7,725.2	342.6	1,409.4	1,242.3	167.14	8.432		
20,233.4	12,500.0	19,046.0	11,242.0	136.0	135.1	-27.07	-7,752.7	343.2	1,409.4	1,241.6	167.79	8.400		
20,300.0	12,500.0	19,100.7	11,242.1	137.0	136.0	-27.09	-7,807.4	344.1	1,409.6	1,240.6	169.05	8.338		
20,400.0	12,500.0	19,184.5	11,241.1	138.6	137.3	-27.10	-7,891.1	345.5	1,411.0	1,240.1	170.90	8.257		
20,500.0	12,500.0	19,279.8	11,239.6	140.1	138.8	-27.13	-7,986.4	347.8	1,413.2	1,240.3	172.89	8.174		
20,600.0	12,500.0	19,381.4	11,238.9	141.7	140.4	-27.25	-8,087.9	352.4	1,415.5	1,240.3	175.19	8.080		
20,700.0	12,500.0	19,457.3	11,238.2	143.3	141.6	-27.37	-8,163.7	356.7	1,418.6	1,241.4	177.22	8.005		
20,800.0	12,500.0	19,539.9	11,236.3	144.9	143.0	-27.50	-8,246.1	361.8	1,423.2	1,243.8	179.32	7.936		
20,900.0	12,500.0	19,710.9	11,237.7	146.4	145.7	-27.91	-8,416.6	373.9	1,425.1	1,242.0	183.08	7.784		
21,000.0	12,500.0	19,794.8	11,239.1	148.0	147.0	-28.09	-8,500.3	378.8	1,426.0	1,240.5	185.41	7.691		
21,100.0	12,500.0	19,890.6	11,240.3	149.6	148.6	-28.30	-8,595.9	384.7	1,427.4	1,239.5	187.93	7.595		
21,200.0	12,500.0	20,073.6	11,245.8	151.2	151.5	-28.69	-8,778.6	394.2	1,427.5	1,236.0	191.53	7.454		
21,300.0	12,500.0	20,180.4	11,253.1	152.7	153.2	-28.92	-8,885.1	397.6	1,422.7	1,228.5	194.21	7.325		
21,400.0	12,500.0	20,260.2	11,258.1	154.3	154.5	-29.10	-8,964.7	400.7	1,418.7	1,222.0	196.69	7.213		
21,500.0	12,500.0	20,329.0	11,260.7	155.9	155.6	-29.20	-9,033.4	402.3	1,416.3	1,217.4	198.83	7.123		
21,561.3	12,500.0	20,375.8	11,261.2	156.9	156.4	-29.20	-9,080.1	402.5	1,415.7	1,215.7	199.98	7.079		
21,600.0	12,500.0	20,400.0	11,260.8	157.5	156.8	-29.18	-9,104.3	402.2	1,415.9	1,215.3	200.58	7.059		
21,700.0	12,500.0	20,534.3	11,258.1	159.1	158.9	-28.97	-9,238.6	398.8	1,416.2	1,213.9	202.29	7.001		
21,749.6	12,500.0	20,564.2	11,257.8	159.9	159.4	-28.93	-9,268.5	398.1	1,415.8	1,212.8	203.05	6.973		
21,800.0	12,500.0	20,594.6	11,257.0	160.7	159.9	-28.88	-9,298.8	397.4	1,416.2	1,212.4	203.77	6.950		
21,900.0	12,500.0	20,727.4	11,254.2	162.3	162.0	-28.70	-9,431.5	394.8	1,416.9	1,211.3	205.54	6.893		
21,951.2	12,500.0	20,765.9	11,253.8	163.1	162.6	-28.65	-9,470.1	394.0	1,416.6	1,210.3	206.36	6.865		
22,000.0	12,500.0	20,805.0	11,252.9	163.8	163.2	-28.59	-9,509.2	393.1	1,416.8	1,209.7	207.09	6.842		
22,100.0	12,500.0	20,938.4	11,252.4	165.4	165.3	-28.45	-9,642.5	390.3	1,415.7	1,206.7	208.94	6.775		
22,200.0	12,500.0	21,033.5	11,252.3	167.0	166.8	-28.35	-9,737.6	388.4	1,414.4	1,203.8	210.66	6.714		
22,300.0	12,500.0	21,151.9	11,252.6	168.6	168.7	-28.20	-9,855.9	385.0	1,412.4	1,200.1	212.33	6.652		
22,400.0	12,500.0	21,249.6	11,252.1	170.2	170.3	-27.96	-9,953.5	379.1	1,409.7	1,196.1	213.60	6.600		
22,500.0	12,500.0	21,334.7	11,252.2	171.8	171.6	-27.83	-10,038.5	376.3	1,407.7	1,192.6	215.16	6.543		
22,600.0	12,500.0	21,494.0	11,255.8	173.4	174.2	-27.70	-10,197.6	372.0	1,404.1	1,187.1	216.97	6.471		
22,700.0	12,500.0	21,563.0	11,258.1	175.0	175.3	-27.70	-10,266.6	371.3	1,400.1	1,181.2	218.92	6.396		
22,774.9	12,500.0	21,590.5	11,258.3	176.2	175.7	-27.70	-10,294.1	371.4	1,399.1	1,178.9	220.17	6.354		
22,800.0	12,500.0	21,603.4	11,258.2	176.6	175.9	-27.70	-10,307.0	371.4	1,399.2	1,178.6	220.56	6.344		
22,900.0	12,500.0	21,658.0	11,256.3	178.2	176.8	-27.65	-10,361.6	371.4	1,401.8	1,179.8	221.93	6.316		
23,000.0	12,500.0	21,749.8	11,251.2	179.8	178.3	-27.53	-10,453.3	371.5	1,406.4	1,182.9	223.46	6.294		
23,100.0	12,500.0	21,939.2	11,248.6	181.4	181.4	-27.63	-10,642.5	377.2	1,409.4	1,182.7	226.67	6.218		
23,171.0	12,500.0	21,986.9	11,250.3	182.5	182.1	-27.75	-10,690.0	379.8	1,408.7	1,180.4	228.32	6.170		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #204H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 216-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		
23,200.0	12,500.0	22,005.2	11,250.5	183.0	182.4	-27.77	-10,708.3	380.6	1,408.8	1,179.9	228.90	6.155		
23,300.0	12,500.0	22,092.8	11,249.5	184.6	183.9	-27.80	-10,795.9	382.5	1,410.4	1,179.5	230.90	6.108		
23,400.0	12,500.0	22,171.2	11,248.4	186.2	185.1	-27.82	-10,874.2	384.2	1,412.4	1,179.7	232.75	6.068		
23,500.0	12,500.0	22,232.7	11,245.4	187.8	186.1	-27.77	-10,935.6	385.0	1,417.0	1,182.9	234.08	6.053		
23,600.0	12,500.0	22,357.2	11,238.5	189.4	188.1	-27.68	-11,059.9	387.0	1,422.4	1,186.2	236.16	6.023		
23,700.0	12,500.0	22,475.9	11,235.7	191.0	190.0	-27.71	-11,178.6	390.1	1,425.2	1,186.7	238.51	5.976		
23,800.0	12,500.0	22,582.9	11,233.0	192.6	191.8	-27.70	-11,285.5	392.2	1,428.0	1,187.4	240.59	5.935		
23,900.0	12,500.0	22,710.6	11,233.2	194.3	193.9	-27.84	-11,413.1	396.9	1,429.2	1,185.9	243.36	5.873		
24,000.0	12,500.0	22,778.2	11,233.9	195.9	195.0	-27.98	-11,480.6	401.1	1,430.8	1,185.2	245.58	5.826		
24,100.0	12,500.0	22,863.2	11,233.0	197.5	196.3	-28.12	-11,565.4	406.1	1,434.2	1,186.3	247.90	5.785		
24,200.0	12,500.0	22,980.8	11,230.5	199.1	198.3	-28.20	-11,682.9	410.7	1,437.6	1,187.1	250.47	5.739		
24,300.0	12,500.0	23,048.1	11,229.4	200.7	199.3	-28.29	-11,750.1	414.2	1,441.1	1,188.7	252.38	5.710		
24,400.0	12,500.0	24,400.0	11,226.8	202.3	221.4	-28.43	-11,862.9	420.5	1,445.4	1,177.5	267.91	5.395 SF		
24,500.0	12,500.0	23,267.2	11,225.0	203.9	202.9	-28.49	-11,968.9	424.0	1,448.1	1,190.6	257.48	5.624		
24,600.0	12,500.0	23,377.4	11,222.4	205.5	204.7	-28.53	-12,079.0	427.4	1,451.3	1,191.5	259.81	5.586		
24,700.0	12,500.0	23,483.7	11,222.2	207.1	206.4	-28.69	-12,185.2	433.0	1,453.6	1,191.0	262.53	5.537		
24,800.0	12,500.0	23,569.0	11,221.6	208.8	207.8	-28.82	-12,270.4	437.7	1,456.4	1,191.5	264.90	5.498		
24,811.6	12,500.0	23,580.6	11,221.5	208.9	208.0	-28.84	-12,281.9	438.3	1,456.8	1,191.6	265.20	5.493		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #217H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 140-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	-96.29	-95.6	-866.8	872.0					
100.0	100.0	100.4	100.4	0.1	0.1	-96.28	-95.4	-866.6	871.8	871.6	0.27	3,198.002		
200.0	200.0	201.2	201.2	0.5	0.4	-96.26	-95.0	-866.1	871.3	870.4	0.91	961.845		
300.0	300.0	300.3	300.3	0.8	0.8	-96.25	-94.8	-865.7	870.9	869.3	1.62	538.265		
400.0	400.0	399.0	399.0	1.2	1.1	-96.25	-94.8	-865.4	870.6	868.3	2.32	374.762		
500.0	500.0	497.6	497.6	1.6	1.5	-96.29	-95.4	-865.2	870.4	867.4	3.03	287.675		
534.2	534.2	531.3	531.3	1.7	1.6	-96.31	-95.7	-865.2	870.4	867.2	3.27	266.511		
600.0	600.0	596.0	596.0	1.9	1.8	-96.35	-96.3	-865.1	870.5	866.7	3.73	233.564		
700.0	700.0	694.4	694.4	2.3	2.1	-96.43	-97.5	-865.2	870.7	866.2	4.43	196.646		
800.0	800.0	792.5	792.5	2.6	2.5	-96.52	-99.0	-865.4	871.1	866.0	5.13	169.778		
900.0	900.0	890.7	890.7	3.0	2.8	-96.62	-100.5	-865.9	871.7	865.9	5.83	149.410		
1,000.0	1,000.0	990.7	990.7	3.4	3.2	-96.70	-101.9	-866.4	872.4	865.9	6.54	133.316		
1,100.0	1,100.0	1,090.0	1,089.9	3.7	3.5	-96.75	-102.6	-867.1	873.2	865.9	7.25	120.417		
1,200.0	1,200.0	1,183.0	1,182.9	4.1	3.9	-96.80	-103.4	-868.0	874.3	866.4	7.94	110.166		
1,300.0	1,300.0	1,289.3	1,289.3	4.4	4.2	-96.88	-104.9	-869.7	876.1	867.4	8.67	101.044		
1,400.0	1,400.0	1,423.3	1,423.2	4.8	4.7	-97.16	-109.1	-867.9	875.1	865.6	9.50	92.084		
1,500.0	1,500.0	1,545.6	1,545.1	5.1	5.2	-97.51	-113.5	-861.6	870.3	860.0	10.29	84.595		
1,600.0	1,600.0	1,641.4	1,640.8	5.5	5.5	-97.72	-116.0	-856.1	865.0	854.1	10.99	78.731		
1,700.0	1,700.0	1,738.5	1,737.7	5.9	5.8	-97.84	-117.2	-851.2	860.2	848.5	11.69	73.591		
1,800.0	1,800.0	1,837.2	1,836.3	6.2	6.2	-97.89	-117.3	-846.5	855.5	843.1	12.39	69.031		
1,900.0	1,900.0	1,935.3	1,934.3	6.6	6.5	-97.89	-116.7	-842.1	851.0	837.9	13.10	64.979		
2,000.0	2,000.0	2,032.8	2,031.8	6.9	6.9	-97.90	-116.2	-838.0	846.8	833.0	13.80	61.369		
2,100.0	2,100.0	2,133.5	2,132.3	7.3	7.2	-38.02	-115.8	-833.9	842.0	827.5	14.51	58.047		
2,200.0	2,200.0	2,235.6	2,234.4	7.6	7.6	-38.19	-115.4	-829.5	835.6	820.4	15.21	54.923		
2,300.0	2,299.9	2,327.0	2,325.7	8.0	7.9	-38.43	-115.2	-825.7	828.1	812.2	15.89	52.105		
2,402.1	2,401.8	2,418.0	2,416.6	8.4	8.2	-38.75	-115.2	-823.1	820.3	803.7	16.58	49.483		
2,500.0	2,499.4	2,509.9	2,508.5	8.7	8.6	-39.06	-115.4	-821.5	813.2	796.0	17.25	47.146		
2,600.0	2,599.2	2,605.6	2,604.2	9.1	8.9	-39.38	-115.5	-820.3	806.5	788.6	17.94	44.952		
2,700.0	2,698.9	2,703.6	2,702.2	9.4	9.3	-39.70	-115.5	-819.4	800.3	781.6	18.64	42.928		
2,800.0	2,798.7	2,802.4	2,801.0	9.8	9.6	-40.02	-115.2	-818.7	794.2	774.8	19.35	41.050		
2,900.0	2,898.4	2,903.9	2,902.5	10.1	10.0	-40.33	-114.9	-818.0	788.0	768.0	20.06	39.286		
3,000.0	2,998.2	3,005.9	3,004.5	10.5	10.3	-40.66	-114.5	-817.0	781.7	760.9	20.77	37.625		
3,100.0	3,098.0	3,104.3	3,102.9	10.9	10.7	-40.97	-114.0	-816.0	775.2	753.8	21.48	36.094		
3,200.0	3,197.7	3,202.8	3,201.4	11.2	11.0	-41.27	-113.4	-815.2	769.0	746.8	22.18	34.667		
3,300.0	3,297.5	3,306.6	3,305.2	11.6	11.4	-41.64	-113.3	-814.0	762.6	739.7	22.91	33.291		
3,400.0	3,397.2	3,410.2	3,408.7	12.0	11.8	-42.13	-114.4	-812.0	755.7	732.1	23.63	31.980		
3,500.0	3,497.0	3,510.6	3,509.1	12.3	12.1	-42.62	-115.7	-809.7	748.6	724.3	24.35	30.742		
3,600.0	3,596.7	3,612.8	3,611.3	12.7	12.5	-43.13	-116.9	-807.2	741.3	716.2	25.08	29.563		
3,700.0	3,696.5	3,717.1	3,715.5	13.1	12.9	-43.73	-118.9	-803.8	733.5	707.7	25.81	28.424		
3,800.0	3,796.2	3,819.3	3,817.6	13.4	13.2	-44.38	-121.3	-799.9	725.3	698.7	26.53	27.337		
3,900.0	3,896.0	3,920.3	3,918.6	13.8	13.6	-44.80	-120.6	-796.4	716.8	689.6	27.25	26.308		
4,000.0	3,995.7	4,019.7	4,017.8	14.2	13.9	-44.99	-117.2	-793.6	708.2	680.3	27.96	25.334		
4,100.0	4,095.5	4,118.2	4,116.2	14.5	14.3	-45.14	-113.4	-791.1	699.8	671.2	28.66	24.417		
4,200.0	4,195.2	4,226.9	4,224.8	14.9	14.7	-45.27	-108.6	-788.0	691.0	661.6	29.39	23.516		
4,300.0	4,295.0	4,338.7	4,336.3	15.3	15.0	-45.34	-102.4	-783.2	680.5	650.4	30.11	22.604		
4,400.0	4,394.8	4,452.4	4,449.6	15.6	15.5	-45.42	-95.6	-776.1	668.0	637.2	30.82	21.676		
4,500.0	4,494.5	4,561.8	4,558.4	16.0	15.8	-45.56	-89.1	-767.0	653.5	622.0	31.51	20.736		
4,600.0	4,594.3	4,665.6	4,661.5	16.4	16.2	-45.54	-81.0	-757.8	638.0	605.7	32.21	19.803		
4,700.0	4,694.0	4,765.1	4,760.1	16.7	16.6	-45.36	-71.4	-748.8	621.9	588.9	32.92	18.888		
4,800.0	4,793.8	4,861.5	4,855.7	17.1	16.9	-45.19	-62.2	-740.4	606.0	572.4	33.64	18.017		
4,900.0	4,893.5	4,960.0	4,953.4	17.5	17.3	-45.01	-53.1	-732.0	590.5	556.1	34.35	17.192		
5,000.0	4,993.3	5,059.6	5,052.3	17.9	17.7	-44.82	-43.7	-723.4	574.8	539.8	35.06	16.397		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #217H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 140-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	5,093.0	5,158.0	5,149.7	18.2	18.0	-44.59	-34.3	-715.0	559.1	523.3	35.77	15.631		
5,200.0	5,192.8	5,255.8	5,246.7	18.6	18.4	-44.28	-24.2	-706.8	543.6	507.1	36.49	14.897		
5,300.0	5,292.5	5,353.4	5,343.5	19.0	18.8	-43.90	-13.8	-699.0	528.2	491.0	37.21	14.197		
5,400.0	5,392.3	5,451.1	5,440.3	19.3	19.1	-43.48	-3.3	-691.4	513.1	475.1	37.93	13.528		
5,500.0	5,492.0	5,547.3	5,535.7	19.7	19.5	-43.06	6.9	-684.3	498.3	459.7	38.65	12.892		
5,600.0	5,591.8	5,643.3	5,631.0	20.1	19.8	-42.65	16.7	-677.6	484.2	444.8	39.38	12.294		
5,700.0	5,691.6	5,743.9	5,730.9	20.4	20.2	-42.27	26.3	-670.6	470.2	430.1	40.09	11.727		
5,800.0	5,791.3	5,845.2	5,831.4	20.8	20.6	-41.95	35.3	-663.0	455.8	415.0	40.81	11.170		
5,900.0	5,891.1	5,940.6	5,926.3	21.2	21.0	-41.71	43.3	-655.8	441.5	400.0	41.54	10.629		
6,000.0	5,990.8	6,036.6	6,021.7	21.6	21.3	-41.51	50.7	-649.2	428.0	385.8	42.27	10.126		
6,100.0	6,090.6	6,140.1	6,124.6	21.9	21.7	-41.29	58.6	-641.9	414.4	371.4	42.98	9.642		
6,200.0	6,190.3	6,243.2	6,227.1	22.3	22.1	-41.03	66.9	-633.5	399.7	356.0	43.67	9.151		
6,300.0	6,290.1	6,341.2	6,324.4	22.7	22.5	-40.73	75.1	-625.4	384.7	340.3	44.40	8.663		
6,400.0	6,389.8	6,440.3	6,422.8	23.0	22.9	-40.35	83.7	-617.2	369.7	324.6	45.13	8.192		
6,500.0	6,489.6	6,539.9	6,521.6	23.4	23.2	-39.92	92.5	-608.9	354.6	308.7	45.85	7.734		
6,600.0	6,589.3	6,638.6	6,619.6	23.8	23.6	-39.45	101.1	-600.4	339.3	292.7	46.57	7.285		
6,700.0	6,689.1	6,736.2	6,716.5	24.2	24.0	-39.02	109.4	-592.2	324.3	277.0	47.31	6.855		
6,800.0	6,788.8	6,834.8	6,814.5	24.5	24.4	-38.60	117.2	-584.2	309.6	261.6	48.04	6.445		
6,900.0	6,888.6	6,934.4	6,913.5	24.9	24.8	-38.19	125.0	-575.9	294.8	246.0	48.76	6.046		
7,000.0	6,988.4	7,034.0	7,012.3	25.3	25.1	-37.77	132.6	-567.4	279.7	230.2	49.47	5.654		
7,100.0	7,088.1	7,133.4	7,111.1	25.7	25.5	-37.38	139.8	-558.5	264.4	214.2	50.19	5.269		
7,200.0	7,187.9	7,235.3	7,212.3	26.0	25.9	-36.95	147.3	-548.9	248.6	197.7	50.87	4.887		
7,300.0	7,287.6	7,337.7	7,313.7	26.4	26.3	-36.19	156.0	-537.7	231.2	179.7	51.53	4.487		
7,400.0	7,387.4	7,435.3	7,410.2	26.8	26.7	-35.22	164.8	-526.3	213.0	160.8	52.28	4.075		
7,500.0	7,487.1	7,532.3	7,506.3	27.1	27.1	-34.29	172.8	-515.5	195.6	142.6	53.04	3.688		
7,600.0	7,586.9	7,629.8	7,602.9	27.5	27.5	-33.41	180.1	-505.3	178.8	125.0	53.80	3.324		
7,700.0	7,686.6	7,727.5	7,699.9	27.9	27.9	-32.56	186.8	-495.5	162.7	108.1	54.56	2.981		
7,800.0	7,786.4	7,822.3	7,794.2	28.3	28.2	-31.98	192.2	-487.4	148.0	92.6	55.38	2.673		
7,900.0	7,886.1	7,917.5	7,889.2	28.6	28.6	-31.99	195.9	-481.9	136.2	80.0	56.17	2.424		
7,973.2	7,959.2	7,988.8	7,960.4	28.9	28.9	-32.38	197.7	-479.2	129.0	72.3	56.71	2.275		
8,000.0	7,985.9	8,015.0	7,986.6	29.0	28.9	-32.55	198.3	-478.4	126.7	69.8	56.90	2.226		
8,100.0	8,085.8	8,112.9	8,084.5	29.4	29.3	-33.05	199.8	-476.4	120.3	62.7	57.63	2.088		
8,200.0	8,185.7	8,211.3	8,182.9	29.7	29.6	-33.19	200.8	-475.7	117.5	59.2	58.32	2.015		
8,230.5	8,216.3	8,241.4	8,213.0	29.8	29.7	-33.13	201.1	-475.7	117.4	58.9	58.53	2.005 CC		
8,241.3	8,227.0	8,252.0	8,223.6	29.9	29.8	-93.04	201.2	-475.7	117.4	58.8	58.60	2.003		
8,300.0	8,285.7	8,309.9	8,281.5	30.1	30.0	-92.85	201.5	-476.2	117.8	58.8	59.00	1.997		
8,400.0	8,385.7	8,409.0	8,380.5	30.4	30.3	-92.73	201.7	-477.6	119.3	59.6	59.67	1.999		
8,500.0	8,485.7	8,508.1	8,479.6	30.8	30.6	-92.95	201.1	-479.8	121.5	61.2	60.33	2.015		
8,600.0	8,585.7	8,607.6	8,579.1	31.1	30.9	-93.27	200.3	-482.5	124.3	63.3	61.00	2.038		
8,700.0	8,685.7	8,707.7	8,679.1	31.5	31.2	-93.56	199.5	-485.6	127.4	65.7	61.68	2.066		
8,800.0	8,785.7	8,809.9	8,781.3	31.8	31.6	-93.83	198.8	-487.6	129.4	67.0	62.39	2.074		
8,900.0	8,885.7	8,911.3	8,882.7	32.2	31.9	-94.07	198.2	-487.9	129.7	66.6	63.08	2.056		
9,000.0	8,985.7	9,011.1	8,982.5	32.5	32.2	-94.33	197.6	-487.9	129.8	66.0	63.77	2.036		
9,100.0	9,085.7	9,111.1	9,082.5	32.8	32.6	-94.60	197.0	-488.1	130.0	65.5	64.45	2.017		
9,200.0	9,185.7	9,211.2	9,182.6	33.2	32.9	-94.70	196.7	-488.2	130.1	65.0	65.14	1.997		
9,300.0	9,285.7	9,311.7	9,283.1	33.5	33.2	-94.70	196.7	-488.1	130.1	64.2	65.84	1.975		
9,400.0	9,385.7	9,412.4	9,383.8	33.9	33.6	-94.98	196.1	-487.5	129.5	63.0	66.53	1.946		
9,500.0	9,485.7	9,512.8	9,484.2	34.2	33.9	-95.64	194.8	-486.3	128.5	61.3	67.23	1.911		
9,600.0	9,585.7	9,613.0	9,584.3	34.6	34.2	-96.78	192.4	-484.9	127.3	59.4	67.92	1.874		
9,700.0	9,685.7	9,712.5	9,683.8	34.9	34.6	-98.12	189.6	-483.4	126.2	57.6	68.61	1.840		
9,800.0	9,785.7	9,812.0	9,783.3	35.3	34.9	-99.16	187.4	-482.4	125.5	56.2	69.30	1.812		
9,862.7	9,848.5	9,874.2	9,845.5	35.5	35.1	-99.65	186.4	-482.1	125.4	55.7	69.73	1.798		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #217H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 140-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,900.0	9,885.7	9,911.1	9,882.4	35.6	35.2	-99.88	185.8	-482.1	125.5	55.5	69.98	1.793		
10,000.0	9,985.7	10,010.2	9,981.4	36.0	35.6	-100.33	184.8	-482.5	126.1	55.4	70.67	1.785 ES, SF		
10,100.0	10,085.7	10,109.4	10,080.6	36.3	35.9	-100.63	183.9	-483.7	127.5	56.1	71.34	1.787		
10,200.0	10,185.7	10,208.7	10,179.9	36.7	36.2	-101.03	182.6	-485.5	129.4	57.4	72.01	1.797		
10,300.0	10,285.7	10,309.0	10,280.2	37.0	36.6	-101.08	182.1	-487.5	131.5	58.8	72.71	1.809		
10,400.0	10,385.7	10,409.5	10,380.7	37.4	36.9	-100.93	182.1	-489.2	133.1	59.7	73.40	1.813		
10,500.0	10,485.7	10,508.8	10,479.9	37.7	37.2	-100.99	181.7	-491.0	135.0	60.9	74.08	1.822		
10,600.0	10,585.7	10,608.9	10,580.0	38.1	37.5	-100.78	181.7	-493.1	137.1	62.3	74.77	1.834		
10,700.0	10,685.7	10,709.2	10,680.3	38.4	37.9	-100.46	182.2	-495.0	138.9	63.4	75.46	1.840		
10,800.0	10,785.7	10,809.0	10,780.1	38.8	38.2	-100.38	182.0	-496.8	140.7	64.5	76.15	1.847		
10,900.0	10,885.7	10,908.8	10,879.9	39.1	38.5	-100.57	181.2	-498.7	142.7	65.8	76.83	1.857		
11,000.0	10,985.7	11,008.2	10,978.6	39.5	38.8	-104.65	170.8	-498.5	144.8	67.3	77.50	1.868		
11,100.0	11,085.7	11,100.1	11,066.4	39.8	39.1	-114.85	144.3	-494.6	150.9	73.2	77.76	1.941		
11,200.0	11,185.7	11,183.5	11,141.8	40.2	39.3	-127.00	109.3	-488.7	168.1	91.4	76.72	2.191		
11,300.0	11,285.7	11,255.5	11,203.5	40.5	39.5	-137.16	72.5	-483.6	200.3	126.5	73.84	2.713		
11,400.0	11,385.7	11,319.1	11,254.7	40.9	39.6	-144.93	35.1	-479.4	246.3	176.2	70.15	3.511		
11,500.0	11,485.7	11,374.5	11,296.0	41.2	39.7	-150.83	-1.4	-475.0	303.4	237.0	66.34	4.573		
11,600.0	11,585.7	11,427.0	11,332.6	41.6	39.8	-155.62	-38.8	-470.0	368.2	304.9	63.36	5.812		
11,700.0	11,685.7	11,472.7	11,362.5	42.0	39.8	-159.21	-73.0	-464.9	438.7	378.1	60.66	7.233		
11,800.0	11,785.7	11,514.1	11,387.8	42.3	39.9	-162.08	-105.2	-459.6	513.7	455.3	58.41	8.795		
11,900.0	11,885.7	11,556.0	11,411.8	42.7	40.0	-164.66	-139.1	-453.6	592.3	535.4	56.86	10.417		
11,941.3	11,927.0	11,556.0	11,411.8	42.8	40.0	-164.66	-139.1	-453.6	625.6	570.5	55.12	11.350		
11,950.0	11,935.7	11,556.0	11,411.8	42.8	40.0	15.45	-139.1	-453.6	632.7	578.0	54.77	11.553		
12,000.0	11,985.6	11,586.0	11,428.1	43.0	40.1	12.46	-163.9	-449.0	671.8	617.0	54.79	12.261		
12,050.0	12,035.1	11,605.8	11,438.4	43.1	40.1	10.64	-180.5	-446.1	709.0	655.0	53.99	13.134		
12,100.0	12,083.7	11,626.8	11,449.1	43.3	40.2	9.20	-198.3	-443.1	744.0	690.8	53.16	13.995		
12,150.0	12,131.2	11,648.8	11,459.9	43.4	40.3	8.04	-217.2	-439.9	776.5	724.2	52.31	14.844		
12,200.0	12,177.0	11,671.7	11,470.8	43.6	40.4	7.11	-237.2	-436.7	806.6	755.1	51.46	15.675		
12,250.0	12,221.0	11,713.0	11,489.3	43.7	40.5	6.08	-273.6	-431.1	834.4	782.8	51.55	16.186		
12,300.0	12,262.8	11,713.0	11,489.3	43.8	40.5	5.79	-273.6	-431.1	858.8	809.4	49.36	17.399		
12,350.0	12,301.9	11,713.0	11,489.3	43.9	40.5	5.53	-273.6	-431.1	881.7	834.4	47.27	18.651		
12,400.0	12,338.3	11,753.4	11,505.6	43.9	40.7	4.90	-310.3	-426.1	900.6	853.5	47.15	19.100		
12,450.0	12,371.5	11,771.6	11,512.1	44.0	40.7	4.59	-327.1	-424.1	917.7	871.8	45.97	19.962		
12,500.0	12,401.3	11,808.0	11,523.6	44.1	40.9	4.21	-361.5	-420.5	932.7	887.1	45.61	20.449		
12,550.0	12,427.5	11,808.0	11,523.6	44.1	40.9	4.12	-361.5	-420.5	944.1	900.3	43.76	21.572		
12,600.0	12,449.9	11,808.0	11,523.6	44.2	40.9	4.05	-361.5	-420.5	953.7	911.6	42.13	22.636		
12,650.0	12,468.3	11,851.6	11,534.8	44.3	41.0	3.78	-403.4	-416.8	959.4	917.3	42.07	22.803		
12,700.0	12,482.6	11,873.3	11,539.5	44.4	41.1	3.66	-424.6	-415.2	962.8	921.4	41.34	23.289		
12,750.0	12,492.7	11,903.0	11,544.9	44.5	41.2	3.55	-453.7	-413.1	963.3	922.4	40.91	23.548		
12,800.0	12,498.5	11,903.0	11,544.9	44.6	41.2	3.56	-453.7	-413.1	961.1	921.2	39.87	24.102		
12,841.3	12,500.0	11,933.6	11,549.3	44.7	41.4	3.51	-483.9	-411.3	956.7	916.9	39.79	24.045		
12,900.0	12,500.0	11,958.2	11,551.8	44.9	41.5	3.46	-508.4	-410.2	950.5	911.1	39.42	24.111		
13,000.0	12,500.0	12,008.1	11,554.5	45.2	41.7	3.41	-558.1	-408.9	944.7	905.4	39.30	24.041		
13,100.0	12,500.0	12,120.5	11,559.2	45.6	42.2	3.32	-670.4	-406.2	940.5	900.6	39.80	23.627		
13,200.0	12,500.0	12,236.5	11,565.4	46.0	42.8	3.15	-786.2	-402.2	935.0	894.6	40.42	23.130		
13,300.0	12,500.0	12,326.9	11,571.5	46.5	43.3	2.98	-876.3	-398.5	928.2	887.3	40.86	22.717		
13,400.0	12,500.0	12,409.5	11,574.7	47.0	43.8	2.86	-958.8	-395.8	924.1	882.7	41.32	22.365		
13,500.0	12,500.0	12,503.8	11,578.3	47.6	44.4	2.73	-1,053.0	-392.7	920.1	878.2	41.92	21.949		
13,600.0	12,500.0	12,570.0	11,579.4	48.2	44.9	2.71	-1,119.1	-391.8	918.6	876.0	42.53	21.596		
13,603.7	12,500.0	12,578.4	11,579.5	48.3	44.9	2.71	-1,127.5	-391.8	918.5	876.0	42.56	21.581		
13,700.0	12,500.0	12,644.4	11,578.3	48.9	45.4	2.73	-1,193.6	-391.7	920.2	876.9	43.33	21.236		
13,800.0	12,500.0	12,781.8	11,576.1	49.6	46.5	2.80	-1,330.9	-391.9	922.0	878.0	44.07	20.921		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #217H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 140-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
13,895.8	12,500.0	12,871.3	11,576.5	50.4	47.2	2.91	-1,420.4	-393.0	921.7	876.8	44.87	20.540		
13,900.0	12,500.0	12,875.1	11,576.5	50.4	47.2	2.92	-1,424.2	-393.0	921.7	876.8	44.91	20.523		
14,000.0	12,500.0	12,975.8	11,576.1	51.2	48.1	3.00	-1,524.8	-393.7	922.2	876.4	45.79	20.140		
14,100.0	12,500.0	13,128.5	11,580.0	52.0	49.5	2.67	-1,677.3	-387.0	919.5	872.7	46.85	19.629		
14,200.0	12,500.0	13,207.5	11,583.4	52.9	50.2	2.40	-1,756.1	-381.9	914.9	867.2	47.63	19.206		
14,300.0	12,500.0	13,284.4	11,585.1	53.8	51.0	2.40	-1,832.9	-381.3	912.7	864.1	48.54	18.801		
14,335.1	12,500.0	13,311.2	11,585.3	54.2	51.3	2.43	-1,859.7	-381.6	912.5	863.6	48.89	18.665		
14,400.0	12,500.0	13,357.7	11,584.9	54.8	51.7	2.52	-1,906.2	-382.7	913.1	863.6	49.57	18.422		
14,500.0	12,500.0	13,514.8	11,584.6	55.8	53.3	2.71	-2,063.2	-384.5	914.2	863.5	50.70	18.033		
14,600.0	12,500.0	13,579.4	11,586.1	56.8	54.0	2.69	-2,127.8	-383.7	911.9	860.2	51.66	17.651		
14,603.3	12,500.0	13,581.6	11,586.1	56.8	54.1	2.69	-2,129.9	-383.7	911.9	860.2	51.70	17.638		
14,700.0	12,500.0	13,656.4	11,585.3	57.8	54.9	2.77	-2,204.7	-384.3	912.9	860.2	52.77	17.299		
14,800.0	12,500.0	13,744.3	11,582.8	58.9	55.9	2.91	-2,292.6	-386.1	915.9	862.0	53.93	16.985		
14,900.0	12,500.0	13,881.7	11,580.5	60.0	57.4	3.08	-2,430.0	-387.9	917.8	862.8	55.04	16.676		
14,942.0	12,500.0	13,918.4	11,580.6	60.5	57.8	3.13	-2,466.6	-388.3	917.7	862.2	55.53	16.527		
15,000.0	12,500.0	13,960.0	11,580.5	61.1	58.3	3.19	-2,508.2	-389.0	918.0	861.8	56.22	16.329		
15,100.0	12,500.0	14,036.0	11,578.8	62.3	59.2	3.39	-2,584.2	-391.7	920.7	863.2	57.48	16.017		
15,200.0	12,500.0	14,214.2	11,581.7	63.5	61.4	3.76	-2,762.1	-396.1	918.0	859.3	58.75	15.626		
15,300.0	12,500.0	14,286.4	11,583.9	64.7	62.3	3.85	-2,834.3	-396.9	915.2	855.3	59.93	15.271		
15,329.0	12,500.0	14,305.9	11,584.0	65.0	62.5	3.88	-2,853.7	-397.2	915.1	854.8	60.29	15.178		
15,400.0	12,500.0	14,373.4	11,583.5	65.9	63.4	3.97	-2,921.3	-398.2	915.6	854.4	61.19	14.965		
15,455.9	12,500.0	14,446.1	11,583.9	66.6	64.3	3.94	-2,994.0	-397.1	915.3	853.4	61.88	14.792		
15,500.0	12,500.0	14,465.7	11,583.6	67.1	64.5	3.92	-3,013.6	-396.7	915.6	853.2	62.42	14.667		
15,600.0	12,500.0	14,536.5	11,581.3	68.3	65.4	3.83	-3,084.3	-394.9	918.6	854.9	63.70	14.420		
15,700.0	12,500.0	14,636.8	11,576.7	69.6	66.8	3.66	-3,184.4	-391.8	923.0	858.1	64.93	14.215		
15,800.0	12,500.0	14,737.7	11,572.3	70.9	68.1	3.62	-3,285.2	-390.5	927.3	861.2	66.20	14.009		
15,900.0	12,500.0	14,865.8	11,567.9	72.2	69.8	3.53	-3,413.2	-388.4	930.9	863.5	67.43	13.805		
16,000.0	12,500.0	15,000.3	11,569.1	73.5	71.6	3.46	-3,547.7	-386.1	929.9	861.1	68.74	13.528		
16,100.0	12,500.0	15,088.1	11,570.5	74.8	72.8	3.37	-3,635.5	-383.9	928.1	858.1	70.03	13.253		
16,190.9	12,500.0	15,168.1	11,570.9	76.0	73.9	3.30	-3,715.5	-382.1	927.6	856.4	71.22	13.024		
16,200.0	12,500.0	15,176.2	11,570.9	76.2	74.0	3.29	-3,723.5	-381.9	927.6	856.2	71.34	13.002		
16,300.0	12,500.0	15,265.5	11,570.2	77.5	75.3	3.20	-3,812.8	-379.9	928.3	855.6	72.67	12.775		
16,400.0	12,500.0	15,344.1	11,568.3	78.9	76.4	3.12	-3,891.4	-378.2	930.6	856.6	74.01	12.573		
16,500.0	12,500.0	15,427.7	11,564.4	80.2	77.5	3.05	-3,974.8	-376.5	935.2	859.8	75.37	12.408		
16,600.0	12,500.0	15,608.7	11,562.7	81.6	80.1	2.76	-4,155.6	-370.5	935.8	859.2	76.63	12.212		
16,700.0	12,500.0	15,681.0	11,564.3	83.0	81.1	2.67	-4,227.8	-368.4	933.7	855.7	77.99	11.973		
16,707.7	12,500.0	15,685.4	11,564.3	83.1	81.2	2.67	-4,232.2	-368.4	933.7	855.6	78.09	11.956		
16,800.0	12,500.0	15,737.8	11,563.2	84.4	82.0	2.71	-4,284.6	-368.7	935.7	856.3	79.40	11.785		
16,900.0	12,500.0	15,816.3	11,558.7	85.8	83.1	2.87	-4,363.0	-370.9	941.4	860.6	80.83	11.647		
17,000.0	12,500.0	15,905.2	11,552.6	87.2	84.3	3.05	-4,451.6	-373.5	948.6	866.3	82.26	11.531		
17,100.0	12,500.0	16,051.9	11,543.7	88.7	86.5	3.17	-4,598.0	-374.9	955.1	871.5	83.66	11.417		
17,200.0	12,500.0	16,187.3	11,543.5	90.1	88.5	2.96	-4,733.2	-370.4	954.8	869.8	85.00	11.232		
17,300.0	12,500.0	16,298.7	11,544.5	91.5	90.1	2.70	-4,844.5	-365.2	953.7	867.4	86.35	11.044		
17,400.0	12,500.0	16,399.9	11,546.8	93.0	91.6	2.42	-4,945.6	-359.6	951.3	863.6	87.71	10.846		
17,500.0	12,500.0	16,494.0	11,548.4	94.4	93.0	2.21	-5,039.6	-355.4	949.4	860.3	89.09	10.656		
17,600.0	12,500.0	16,579.5	11,549.2	95.9	94.3	2.14	-5,125.0	-353.6	948.5	857.9	90.51	10.478		
17,603.6	12,500.0	16,582.4	11,549.2	96.0	94.3	2.14	-5,128.0	-353.6	948.4	857.9	90.57	10.473		
17,700.0	12,500.0	16,668.9	11,548.7	97.4	95.6	2.19	-5,214.5	-353.7	949.1	857.1	91.96	10.321		
17,800.0	12,500.0	16,742.0	11,547.3	98.8	96.7	2.32	-5,287.5	-355.4	951.2	857.7	93.42	10.181		
17,900.0	12,500.0	16,865.9	11,541.4	100.3	98.5	2.72	-5,411.1	-361.3	956.7	861.8	94.95	10.076		
18,000.0	12,500.0	17,017.5	11,545.5	101.8	100.8	2.64	-5,562.6	-358.7	953.3	856.9	96.35	9.894		
18,100.0	12,500.0	17,095.0	11,547.5	103.3	102.0	2.56	-5,640.0	-356.7	950.5	852.7	97.80	9.719		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #217H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 140-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
18,200.0	12,500.0	17,177.0	11,548.3	104.8	103.2	2.46	-5,722.0	-354.4	949.5	850.3	99.24	9.568		
18,209.2	12,500.0	17,188.6	11,548.3	104.9	103.4	2.45	-5,733.6	-354.1	949.5	850.1	99.37	9.555		
18,300.0	12,500.0	17,254.7	11,547.5	106.3	104.4	2.53	-5,799.6	-355.0	950.7	850.0	100.71	9.440		
18,400.0	12,500.0	17,332.5	11,544.8	107.8	105.6	2.88	-5,877.2	-360.3	954.5	852.3	102.25	9.335		
18,500.0	12,500.0	17,418.5	11,540.2	109.3	106.9	3.30	-5,962.9	-366.9	960.4	856.5	103.82	9.250		
18,600.0	12,500.0	17,562.3	11,533.3	110.8	109.0	3.68	-6,106.3	-372.7	965.9	860.4	105.46	9.158		
18,700.0	12,500.0	17,647.5	11,530.9	112.3	110.3	3.70	-6,191.4	-372.6	968.7	861.7	106.94	9.058		
18,800.0	12,500.0	17,757.3	11,527.5	113.9	112.0	3.68	-6,301.2	-371.5	971.8	863.4	108.41	8.964		
18,900.0	12,500.0	17,889.7	11,526.9	115.4	114.1	3.55	-6,433.6	-368.3	972.0	862.2	109.84	8.850		
19,000.0	12,500.0	18,010.2	11,528.8	116.9	115.9	3.35	-6,554.0	-364.1	970.3	859.0	111.23	8.723		
19,100.0	12,500.0	18,088.2	11,530.6	118.4	117.1	3.19	-6,631.9	-360.6	967.9	855.2	112.68	8.590		
19,122.7	12,500.0	18,103.5	11,530.6	118.8	117.4	3.16	-6,647.2	-359.9	967.8	854.8	113.01	8.564		
19,200.0	12,500.0	18,159.4	11,529.8	120.0	118.3	3.05	-6,703.0	-357.6	968.8	854.6	114.12	8.489		
19,300.0	12,500.0	18,239.9	11,526.9	121.5	119.5	2.90	-6,783.4	-354.7	972.2	856.6	115.53	8.415		
19,400.0	12,500.0	18,357.4	11,522.2	123.0	121.3	2.74	-6,900.7	-351.3	976.2	859.2	116.99	8.345		
19,500.0	12,500.0	18,479.4	11,521.3	124.6	123.3	2.55	-7,022.7	-347.1	976.6	858.2	118.42	8.247		
19,600.0	12,500.0	18,581.9	11,521.1	126.1	124.9	2.37	-7,125.1	-343.4	976.8	856.9	119.86	8.149		
19,700.0	12,500.0	18,685.3	11,521.2	127.7	126.5	2.18	-7,228.5	-339.3	976.5	855.2	121.31	8.050		
19,800.0	12,500.0	18,805.0	11,522.7	129.2	128.4	2.02	-7,348.0	-335.7	975.2	852.4	122.74	7.945		
19,900.0	12,500.0	18,900.7	11,524.8	130.8	129.9	1.94	-7,443.7	-333.5	973.0	848.7	124.22	7.832		
20,000.0	12,500.0	18,992.1	11,525.8	132.3	131.3	1.87	-7,535.1	-331.6	971.7	846.0	125.72	7.729		
20,100.0	12,500.0	19,122.9	11,530.1	133.9	133.4	1.85	-7,665.8	-330.0	968.3	841.2	127.14	7.616		
20,200.0	12,500.0	19,223.6	11,534.5	135.5	135.0	1.85	-7,766.4	-329.2	964.0	835.3	128.64	7.493		
20,300.0	12,500.0	19,319.9	11,538.6	137.0	136.5	1.86	-7,862.6	-328.6	959.7	829.5	130.16	7.373		
20,400.0	12,500.0	19,404.6	11,541.4	138.6	137.8	1.94	-7,947.3	-329.1	956.4	824.6	131.73	7.260		
20,500.0	12,500.0	19,503.7	11,543.4	140.1	139.4	2.09	-8,046.3	-330.8	954.5	821.2	133.28	7.161		
20,600.0	12,500.0	19,590.8	11,545.3	141.7	140.7	2.20	-8,133.4	-331.9	952.4	817.6	134.84	7.063		
20,638.8	12,500.0	19,620.6	11,545.5	142.3	141.2	2.25	-8,163.2	-332.5	952.2	816.8	135.45	7.030		
20,700.0	12,500.0	19,682.8	11,545.5	143.3	142.2	2.36	-8,225.4	-333.8	952.3	815.9	136.41	6.981		
20,800.0	12,500.0	19,793.5	11,546.3	144.9	143.9	2.48	-8,336.1	-335.0	951.7	813.7	137.95	6.899		
20,900.0	12,500.0	19,901.8	11,548.1	146.4	145.6	2.47	-8,444.4	-334.0	950.0	810.5	139.45	6.812		
21,000.0	12,500.0	20,019.5	11,551.5	148.0	147.5	2.31	-8,561.9	-330.2	947.0	806.2	140.85	6.723		
21,100.0	12,500.0	20,123.0	11,556.1	149.6	149.2	2.08	-8,665.2	-325.5	942.4	800.1	142.29	6.623		
21,200.0	12,500.0	20,196.0	11,558.1	151.2	150.3	1.95	-8,738.1	-322.8	939.5	795.7	143.85	6.531		
21,300.0	12,500.0	20,303.5	11,560.0	152.7	152.0	1.82	-8,845.6	-319.8	937.8	792.4	145.32	6.453		
21,400.0	12,500.0	20,392.5	11,561.3	154.3	153.5	1.73	-8,934.5	-317.6	936.2	789.4	146.84	6.376		
21,500.0	12,500.0	20,497.4	11,562.5	155.9	155.1	1.64	-9,039.4	-315.3	935.0	786.7	148.33	6.304		
21,600.0	12,500.0	20,609.5	11,565.5	157.5	156.9	1.44	-9,151.4	-311.0	932.1	782.4	149.77	6.224		
21,700.0	12,500.0	20,689.3	11,567.1	159.1	158.2	1.28	-9,231.1	-307.8	930.2	778.8	151.31	6.147		
21,722.1	12,500.0	20,704.5	11,567.1	159.4	158.5	1.27	-9,246.3	-307.6	930.1	778.4	151.65	6.133		
21,800.0	12,500.0	20,764.0	11,566.3	160.7	159.4	1.38	-9,305.8	-308.8	931.1	778.3	152.85	6.092		
21,900.0	12,500.0	20,859.8	11,563.8	162.3	160.9	1.57	-9,401.5	-311.3	933.8	779.4	154.41	6.048		
22,000.0	12,500.0	20,993.7	11,564.1	163.8	163.1	1.46	-9,535.3	-308.5	933.3	777.4	155.91	5.986		
22,076.5	12,500.0	21,059.1	11,564.5	165.1	164.1	1.49	-9,600.8	-308.4	932.8	775.7	157.09	5.938		
22,100.0	12,500.0	21,077.5	11,564.5	165.4	164.4	1.51	-9,619.1	-308.7	932.9	775.4	157.46	5.924		
22,200.0	12,500.0	21,156.0	11,563.2	167.0	165.7	1.65	-9,697.6	-310.5	934.6	775.6	159.00	5.878		
22,300.0	12,500.0	21,236.4	11,560.1	168.6	166.9	1.82	-9,778.0	-312.7	938.5	778.0	160.49	5.847		
22,400.0	12,500.0	21,353.6	11,555.5	170.2	168.8	2.05	-9,895.0	-315.8	942.5	780.4	162.15	5.813		
22,500.0	12,500.0	21,449.3	11,551.8	171.8	170.3	2.19	-9,990.6	-317.5	946.5	782.8	163.72	5.781		
22,600.0	12,500.0	21,578.1	11,549.8	173.4	172.4	2.30	-10,119.4	-318.4	948.0	782.6	165.33	5.734		
22,700.0	12,500.0	21,685.9	11,549.7	175.0	174.1	2.36	-10,227.2	-318.6	948.1	781.2	166.88	5.681		
22,747.8	12,500.0	21,730.8	11,549.9	175.8	174.8	2.37	-10,272.1	-318.4	947.9	780.3	167.62	5.655		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #217H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 140-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
22,800.0	12,500.0	21,771.2	11,549.6	176.6	175.5	2.41	-10,312.4	-318.7	948.3	779.8	168.44	5.630		
22,900.0	12,500.0	21,847.4	11,547.9	178.2	176.7	2.56	-10,388.7	-320.8	950.7	780.8	169.98	5.593		
23,000.0	12,500.0	21,931.3	11,543.9	179.8	178.0	2.80	-10,472.4	-324.2	955.7	784.1	171.53	5.571		
23,100.0	12,500.0	22,034.8	11,538.7	181.4	179.7	2.85	-10,575.7	-324.6	960.8	787.6	173.11	5.550		
23,200.0	12,500.0	22,216.6	11,535.4	183.0	182.6	2.64	-10,757.3	-319.9	963.2	788.6	174.58	5.517		
23,300.0	12,500.0	22,319.7	11,538.9	184.6	184.3	2.38	-10,860.2	-314.5	959.6	783.6	175.99	5.453		
23,400.0	12,500.0	22,416.3	11,542.3	186.2	185.9	2.15	-10,956.6	-309.8	955.9	778.4	177.45	5.387		
23,500.0	12,500.0	22,508.7	11,544.9	187.8	187.4	1.96	-11,048.9	-305.9	953.0	774.0	178.96	5.325		
23,600.0	12,500.0	22,613.2	11,547.5	189.4	189.0	1.79	-11,153.3	-302.1	950.4	770.0	180.42	5.268		
23,700.0	12,500.0	22,703.3	11,550.2	191.0	190.5	1.59	-11,243.3	-298.0	947.3	765.4	181.93	5.207		
23,770.8	12,500.0	22,755.0	11,550.7	192.2	191.3	1.52	-11,294.9	-296.5	946.6	763.6	183.04	5.172		
23,800.0	12,500.0	22,781.2	11,550.6	192.6	191.8	1.49	-11,321.1	-295.8	946.7	763.2	183.49	5.159		
23,900.0	12,500.0	22,878.0	11,550.0	194.3	193.3	1.38	-11,417.9	-293.3	947.3	762.3	185.00	5.121		
24,000.0	12,500.0	22,983.5	11,549.5	195.9	195.0	1.18	-11,523.3	-289.2	947.7	761.2	186.49	5.082		
24,061.3	12,500.0	23,047.7	11,549.6	196.9	196.1	1.13	-11,587.5	-287.9	947.6	760.2	187.42	5.056		
24,100.0	12,500.0	23,067.8	11,549.3	197.5	196.4	1.14	-11,607.6	-287.9	948.0	760.0	188.01	5.042		
24,200.0	12,500.0	23,135.0	11,546.6	199.1	197.5	1.26	-11,674.7	-289.4	951.9	762.4	189.43	5.025		
24,300.0	12,500.0	23,224.8	11,541.1	200.7	198.9	1.52	-11,764.3	-293.2	958.1	767.2	190.96	5.018		
24,400.0	12,500.0	23,321.6	11,535.0	202.3	200.5	1.77	-11,860.8	-296.8	964.5	772.0	192.54	5.010		
24,500.0	12,500.0	23,417.8	11,528.6	203.9	202.0	1.99	-11,956.8	-300.1	971.3	777.2	194.12	5.004		
24,600.0	12,500.0	23,560.8	11,521.9	205.5	204.3	2.15	-12,099.6	-301.9	976.1	780.1	195.99	4.980		
24,700.0	12,500.0	23,662.2	11,520.1	207.1	206.0	2.04	-12,200.9	-299.4	977.8	780.3	197.49	4.951		
24,800.0	12,500.0	23,802.1	11,519.1	208.8	208.2	1.89	-12,340.7	-295.8	978.6	779.6	198.97	4.918		
24,811.6	12,500.0	23,808.0	11,519.2	208.9	208.3	1.88	-12,346.6	-295.6	978.4	779.2	199.16	4.912		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #218H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 216-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.0	0.0	0.0	0.0	0.0	0.0	98.10	-28.5	200.2	202.3					
100.0	100.0	95.9	95.9	0.1	0.2	98.07	-28.4	200.5	202.5	202.2	0.28	723.197 ES		
200.0	200.0	194.7	194.7	0.5	0.3	97.96	-28.2	201.4	203.4	202.6	0.79	256.848		
300.0	300.0	294.3	294.3	0.8	0.6	97.80	-27.8	202.8	204.7	203.2	1.46	139.770		
400.0	400.0	394.1	394.1	1.2	1.0	97.62	-27.3	204.2	206.0	203.9	2.18	94.533		
500.0	500.0	492.8	492.8	1.6	1.3	97.40	-26.8	206.0	207.7	204.8	2.89	71.814		
600.0	600.0	591.4	591.4	1.9	1.7	97.09	-25.9	208.4	210.1	206.5	3.61	58.274		
700.0	700.0	691.0	690.9	2.3	2.0	96.78	-25.1	211.3	212.9	208.6	4.32	49.267		
800.0	800.0	790.7	790.5	2.6	2.4	96.52	-24.5	214.3	215.8	210.8	5.04	42.854		
900.0	900.0	890.7	890.5	3.0	2.8	96.38	-24.3	217.4	218.8	213.1	5.75	38.039		
1,000.0	1,000.0	991.2	990.9	3.4	3.1	96.37	-24.6	220.3	221.8	215.3	6.47	34.278		
1,100.0	1,100.0	1,092.5	1,092.3	3.7	3.5	96.50	-25.4	222.7	224.2	217.0	7.19	31.189		
1,200.0	1,200.0	1,190.9	1,190.5	4.1	3.8	96.65	-26.2	224.8	226.4	218.5	7.90	28.669		
1,300.0	1,300.0	1,286.8	1,286.4	4.4	4.2	96.37	-25.5	228.4	230.1	221.5	8.60	26.772		
1,400.0	1,400.0	1,382.6	1,382.0	4.8	4.5	95.68	-23.3	234.0	235.6	226.3	9.29	25.352		
1,500.0	1,500.0	1,478.1	1,477.2	5.1	4.9	94.73	-20.0	241.2	242.9	232.9	9.99	24.318		
1,600.0	1,600.0	1,572.8	1,571.3	5.5	5.2	93.63	-15.9	250.2	252.0	241.3	10.67	23.608		
1,700.0	1,700.0	1,666.8	1,664.6	5.9	5.6	92.47	-11.3	261.0	263.2	251.9	11.35	23.185		
1,800.0	1,800.0	1,763.6	1,760.5	6.2	6.0	91.28	-6.1	273.7	276.2	264.1	12.05	22.913		
1,900.0	1,900.0	1,861.5	1,857.3	6.6	6.4	90.18	-0.9	286.9	289.6	276.9	12.76	22.701		
2,000.0	2,000.0	1,961.8	1,956.6	6.9	6.8	89.16	4.4	300.5	303.2	289.8	13.49	22.486		
2,100.0	2,100.0	2,062.9	2,056.7	7.3	7.2	148.17	9.8	313.5	317.0	302.8	14.22	22.301		
2,200.0	2,200.0	2,163.3	2,156.1	7.6	7.6	147.40	15.5	325.9	331.7	316.8	14.94	22.207		
2,300.0	2,299.9	2,263.5	2,255.4	8.0	8.0	146.68	22.2	337.7	347.5	331.8	15.66	22.190		
2,402.1	2,401.8	2,356.4	2,347.3	8.4	8.4	146.15	28.7	349.4	365.9	349.6	16.33	22.412		
2,500.0	2,499.4	2,444.8	2,434.6	8.7	8.7	145.91	34.5	362.4	386.2	369.3	16.96	22.779		
2,600.0	2,599.2	2,544.7	2,533.1	9.1	9.1	145.74	40.6	377.8	407.8	390.1	17.68	23.059		
2,700.0	2,698.9	2,645.8	2,633.0	9.4	9.6	145.67	46.2	392.7	428.6	410.2	18.42	23.264		
2,800.0	2,798.7	2,746.9	2,732.9	9.8	10.0	145.67	51.2	406.9	448.7	429.5	19.16	23.417		
2,900.0	2,898.4	2,848.2	2,833.2	10.1	10.4	145.69	56.0	420.4	468.0	448.1	19.90	23.521		
3,000.0	2,998.2	2,937.3	2,921.3	10.5	10.8	145.73	60.1	433.0	488.2	467.7	20.54	23.766		
3,100.0	3,098.0	3,028.8	3,011.6	10.9	11.2	145.78	64.3	447.3	509.8	488.6	21.20	24.044		
3,200.0	3,197.7	3,136.2	3,117.6	11.2	11.6	145.85	69.0	463.6	530.9	508.9	22.00	24.136		
3,300.0	3,297.5	3,239.6	3,220.0	11.6	12.1	145.94	73.2	477.5	550.4	527.6	22.76	24.187		
3,400.0	3,397.2	3,331.6	3,311.0	12.0	12.4	146.00	77.0	490.2	570.2	546.8	23.43	24.340		
3,500.0	3,497.0	3,425.6	3,403.9	12.3	12.8	146.04	81.3	504.2	591.0	566.9	24.11	24.513		
3,600.0	3,596.7	3,527.2	3,504.3	12.7	13.3	146.11	85.5	519.1	611.7	586.8	24.86	24.607		
3,700.0	3,696.5	3,625.7	3,601.7	13.1	13.7	146.23	88.9	533.1	631.8	606.3	25.58	24.699		
3,800.0	3,796.2	3,718.2	3,693.2	13.4	14.1	146.38	91.7	546.8	652.5	626.3	26.25	24.854		
3,900.0	3,896.0	3,817.3	3,791.0	13.8	14.5	146.55	94.5	562.1	673.9	646.9	26.98	24.974		
4,000.0	3,995.7	3,932.7	3,905.2	14.2	15.0	146.44	101.1	577.8	693.5	665.7	27.84	24.914		
4,100.0	4,095.5	4,040.7	4,012.1	14.5	15.4	146.07	110.5	589.9	711.1	682.5	28.63	24.841		
4,200.0	4,195.2	4,144.6	4,115.1	14.9	15.9	145.75	119.4	600.7	727.8	698.4	29.38	24.768		
4,300.0	4,295.0	4,245.4	4,215.0	15.3	16.3	145.47	127.6	610.6	744.0	713.9	30.12	24.700		
4,400.0	4,394.8	4,345.6	4,314.4	15.6	16.7	145.22	135.6	620.3	760.0	729.1	30.85	24.632		
4,500.0	4,494.5	4,444.4	4,412.5	16.0	17.1	145.01	143.1	629.8	775.9	744.3	31.58	24.570		
4,600.0	4,594.3	4,543.2	4,510.6	16.4	17.4	144.85	150.1	639.3	791.8	759.5	32.30	24.510		
4,700.0	4,694.0	4,634.7	4,601.4	16.7	17.8	144.72	156.5	648.5	808.1	775.1	32.98	24.502		
4,800.0	4,793.8	4,726.0	4,691.9	17.1	18.2	144.59	162.8	658.5	825.3	791.7	33.66	24.522		
4,900.0	4,893.5	4,819.8	4,784.8	17.5	18.6	144.48	169.3	669.5	843.3	808.9	34.35	24.549		
5,000.0	4,993.3	4,913.6	4,877.7	17.9	19.0	144.37	175.8	680.9	861.7	826.7	35.04	24.591		
5,100.0	5,093.0	5,017.0	4,980.1	18.2	19.4	144.26	182.9	693.5	880.2	844.4	35.80	24.582		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #218H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 216-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	5,192.8	5,121.6	5,083.7	18.6	19.8	144.15	190.1	705.6	898.0	861.4	36.57	24.552		
5,300.0	5,292.5	5,218.4	5,179.7	19.0	20.2	144.04	196.8	716.6	915.5	878.2	37.29	24.553		
5,400.0	5,392.3	5,314.2	5,274.7	19.3	20.6	143.94	203.5	727.5	933.2	895.2	38.00	24.561		
5,500.0	5,492.0	5,402.5	5,362.0	19.7	21.0	143.83	210.0	738.2	951.7	913.0	38.65	24.622		
5,600.0	5,591.8	5,490.7	5,449.2	20.1	21.4	143.71	216.9	749.8	971.1	931.8	39.30	24.711		
5,700.0	5,691.6	5,590.5	5,547.8	20.4	21.8	143.59	224.6	763.3	991.0	951.0	40.04	24.750		
5,800.0	5,791.3	5,693.8	5,649.9	20.8	22.2	143.52	231.7	777.2	1,010.7	969.9	40.81	24.767		
5,900.0	5,891.1	5,819.0	5,774.1	21.2	22.7	143.57	237.6	792.1	1,028.7	986.9	41.72	24.655		
6,000.0	5,990.8	5,960.3	5,914.8	21.6	23.3	143.81	240.6	804.9	1,043.6	1,000.9	42.68	24.449		
6,100.0	6,090.6	6,096.5	6,050.7	21.9	23.8	144.06	242.2	811.4	1,054.0	1,010.5	43.55	24.201		
6,200.0	6,190.3	6,203.7	6,157.9	22.3	24.1	144.37	241.3	814.9	1,062.8	1,018.6	44.29	24.000		
6,300.0	6,290.1	6,311.6	6,265.7	22.7	24.5	144.78	238.3	817.8	1,070.9	1,025.9	45.01	23.793		
6,400.0	6,389.8	6,420.0	6,374.0	23.0	24.8	145.22	234.5	819.8	1,078.3	1,032.6	45.73	23.580		
6,500.0	6,489.6	6,523.3	6,477.3	23.4	25.1	145.65	230.6	821.1	1,085.0	1,038.6	46.43	23.370		
6,600.0	6,589.3	6,625.8	6,579.7	23.8	25.4	146.07	226.8	822.2	1,091.6	1,044.5	47.13	23.163		
6,700.0	6,689.1	6,724.6	6,678.4	24.2	25.7	146.47	223.1	823.0	1,098.1	1,050.3	47.82	22.965		
6,800.0	6,788.8	6,823.6	6,777.3	24.5	26.0	146.86	219.4	824.0	1,104.7	1,056.2	48.51	22.775		
6,900.0	6,888.6	6,925.8	6,879.5	24.9	26.3	147.27	215.6	824.9	1,111.2	1,062.0	49.20	22.585		
7,000.0	6,988.4	7,027.3	6,980.9	25.3	26.6	147.67	211.6	825.5	1,117.6	1,067.7	49.90	22.397		
7,100.0	7,088.1	7,126.2	7,079.7	25.7	27.0	148.04	208.0	826.0	1,124.0	1,073.4	50.59	22.217		
7,200.0	7,187.9	7,231.3	7,184.7	26.0	27.3	148.41	204.6	826.6	1,130.4	1,079.1	51.29	22.037		
7,300.0	7,287.6	7,350.4	7,303.8	26.4	27.6	148.80	201.3	825.7	1,135.5	1,083.5	52.02	21.830		
7,400.0	7,387.4	7,460.5	7,413.9	26.8	28.0	149.14	198.4	823.2	1,139.3	1,086.6	52.72	21.612		
7,500.0	7,487.1	7,566.9	7,520.2	27.1	28.3	149.48	195.4	820.2	1,142.5	1,089.0	53.40	21.393		
7,600.0	7,586.9	7,661.8	7,614.9	27.5	28.5	149.78	192.8	817.4	1,145.5	1,091.5	54.08	21.182		
7,700.0	7,686.6	7,755.7	7,708.8	27.9	28.8	150.05	190.8	815.1	1,149.2	1,094.4	54.76	20.986		
7,800.0	7,786.4	7,857.9	7,810.9	28.3	29.1	150.32	188.9	812.8	1,153.0	1,097.5	55.45	20.795		
7,900.0	7,886.1	7,960.8	7,913.8	28.6	29.4	150.61	186.7	810.2	1,156.6	1,100.4	56.14	20.603		
7,973.2	7,959.2	8,032.8	7,985.8	28.9	29.6	150.81	185.1	808.3	1,159.2	1,102.5	56.64	20.466		
8,000.0	7,985.9	8,059.3	8,012.3	29.0	29.7	150.89	184.5	807.6	1,160.0	1,103.2	56.82	20.416		
8,100.0	8,085.8	8,158.2	8,111.1	29.4	30.0	151.13	182.3	805.1	1,161.9	1,104.4	57.50	20.206		
8,200.0	8,185.7	8,248.3	8,201.2	29.7	30.3	151.27	180.5	803.3	1,162.1	1,103.9	58.17	19.976		
8,241.3	8,227.0	8,285.9	8,238.8	29.9	30.4	91.36	179.9	802.8	1,161.7	1,103.2	58.45	19.876		
8,300.0	8,285.7	8,340.1	8,292.9	30.1	30.6	91.40	179.0	802.2	1,161.0	1,102.2	58.83	19.734		
8,400.0	8,385.7	8,438.3	8,391.1	30.4	30.9	91.42	178.6	801.4	1,160.2	1,100.7	59.51	19.495		
8,500.0	8,485.7	8,537.3	8,490.1	30.8	31.2	91.36	179.8	800.8	1,159.6	1,099.4	60.20	19.263		
8,600.0	8,585.7	8,641.0	8,593.8	31.1	31.6	91.27	181.6	800.0	1,158.8	1,097.9	60.89	19.031		
8,700.0	8,685.7	8,744.5	8,697.3	31.5	31.9	91.19	183.3	798.9	1,157.7	1,096.1	61.59	18.798		
8,800.0	8,785.7	8,847.7	8,800.5	31.8	32.2	91.07	185.7	797.5	1,156.3	1,094.0	62.28	18.566		
8,900.0	8,885.7	8,949.6	8,902.3	32.2	32.6	90.92	188.8	795.8	1,154.6	1,091.7	62.97	18.337		
9,000.0	8,985.7	9,050.1	9,002.7	32.5	32.9	90.79	191.5	794.2	1,152.9	1,089.3	63.66	18.112		
9,100.0	9,085.7	9,149.0	9,101.6	32.8	33.2	90.70	193.4	792.5	1,151.2	1,086.9	64.34	17.892		
9,200.0	9,185.7	9,246.9	9,199.4	33.2	33.5	90.63	194.8	791.0	1,149.7	1,084.6	65.02	17.681		
9,300.0	9,285.7	9,345.1	9,297.7	33.5	33.8	90.57	196.0	789.7	1,148.3	1,082.6	65.71	17.476		
9,400.0	9,385.7	9,443.6	9,396.1	33.9	34.2	90.50	197.5	788.5	1,147.1	1,080.7	66.39	17.277		
9,500.0	9,485.7	9,542.9	9,495.5	34.2	34.5	90.41	199.1	787.3	1,145.9	1,078.9	67.08	17.083		
9,600.0	9,585.7	9,642.6	9,595.1	34.6	34.8	90.34	200.7	786.3	1,144.8	1,077.1	67.77	16.893		
9,700.0	9,685.7	9,739.4	9,691.9	34.9	35.1	90.26	202.2	785.3	1,143.9	1,075.4	68.46	16.709		
9,800.0	9,785.7	9,835.7	9,788.1	35.3	35.5	90.15	204.5	784.7	1,143.2	1,074.1	69.14	16.534		
9,900.0	9,885.7	9,937.5	9,889.9	35.6	35.8	90.02	207.1	784.2	1,142.7	1,072.9	69.84	16.361		
10,000.0	9,985.7	10,040.1	9,992.5	36.0	36.1	89.91	209.1	783.5	1,142.0	1,071.4	70.55	16.188		
10,100.0	10,085.7	10,138.2	10,090.6	36.3	36.5	89.84	210.5	782.7	1,141.2	1,070.0	71.24	16.020		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #218H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 216-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.0	10,185.7	10,236.6	10,189.0	36.7	36.8	89.80	211.4	782.1	1,140.6	1,068.7	71.92	15.858		
10,300.0	10,285.7	10,335.2	10,287.6	37.0	37.1	89.78	211.8	781.6	1,140.1	1,067.5	72.61	15.702		
10,400.0	10,385.7	10,434.0	10,386.4	37.4	37.4	89.78	211.8	781.2	1,139.7	1,066.4	73.30	15.549		
10,500.0	10,485.7	10,533.7	10,486.0	37.7	37.8	89.79	211.5	780.9	1,139.4	1,065.5	73.99	15.400		
10,600.0	10,585.7	10,634.0	10,586.4	38.1	38.1	89.82	210.9	780.7	1,139.2	1,064.5	74.68	15.254		
10,700.0	10,685.7	10,736.4	10,688.8	38.4	38.4	89.86	210.2	780.2	1,138.7	1,063.4	75.37	15.108		
10,800.0	10,785.7	10,839.0	10,791.4	38.8	38.8	89.90	209.3	779.6	1,138.1	1,062.0	76.07	14.961		
10,900.0	10,885.7	10,942.9	10,895.2	39.1	39.1	89.97	207.9	778.6	1,137.2	1,060.4	76.77	14.813		
11,000.0	10,985.7	11,055.8	11,007.9	39.5	39.5	90.32	201.0	776.9	1,135.6	1,058.2	77.47	14.658		
11,100.0	11,085.7	11,158.3	11,107.4	39.8	39.7	91.52	177.4	773.9	1,133.1	1,054.9	78.15	14.499		
11,171.0	11,156.7	11,209.0	11,153.7	40.1	39.9	92.55	157.0	772.5	1,132.1	1,053.5	78.58	14.407		
11,200.0	11,185.7	11,228.6	11,171.0	40.2	39.9	93.02	147.8	772.1	1,132.2	1,053.5	78.74	14.379		
11,300.0	11,285.7	11,279.2	11,214.5	40.5	40.0	94.33	121.9	771.9	1,135.7	1,056.5	79.16	14.348		
11,400.0	11,385.7	11,330.3	11,256.6	40.9	40.1	95.78	92.9	773.0	1,144.3	1,064.9	79.40	14.411		
11,500.0	11,485.7	11,381.7	11,297.0	41.2	40.2	97.35	61.2	774.9	1,157.8	1,078.3	79.47	14.568		
11,600.0	11,585.7	11,399.0	11,310.2	41.6	40.2	97.90	50.0	775.7	1,177.0	1,098.1	78.99	14.902		
11,700.0	11,685.7	11,441.6	11,341.5	42.0	40.3	99.29	21.4	778.9	1,201.9	1,123.4	78.56	15.300		
11,800.0	11,785.7	11,465.4	11,358.2	42.3	40.4	100.08	4.7	781.6	1,233.4	1,155.7	77.70	15.873		
11,900.0	11,885.7	11,495.0	11,378.2	42.7	40.4	101.08	-16.7	786.1	1,270.7	1,194.0	76.78	16.551		
11,941.3	11,927.0	11,498.6	11,380.6	42.8	40.4	101.20	-19.3	786.7	1,287.7	1,211.5	76.21	16.896		
11,950.0	11,935.7	11,503.5	11,383.8	42.8	40.4	-77.80	-23.0	787.5	1,291.4	1,215.2	76.16	16.956		
12,000.0	11,985.6	11,532.2	11,402.1	43.0	40.5	-74.63	-44.5	792.0	1,312.4	1,236.6	75.85	17.304		
12,050.0	12,035.1	11,561.2	11,419.8	43.1	40.5	-71.59	-67.2	796.1	1,333.3	1,257.7	75.52	17.653		
12,100.0	12,083.7	11,580.0	11,430.8	43.3	40.6	-68.98	-82.2	798.5	1,353.6	1,278.6	75.01	18.046		
12,150.0	12,131.2	11,580.0	11,430.8	43.4	40.6	-66.92	-82.2	798.5	1,374.0	1,299.8	74.17	18.525		
12,200.0	12,177.0	11,627.9	11,457.5	43.6	40.6	-64.05	-121.6	804.8	1,392.6	1,318.4	74.17	18.775		
12,250.0	12,221.0	11,649.2	11,468.6	43.7	40.7	-61.94	-139.4	807.7	1,410.9	1,337.2	73.72	19.140		
12,300.0	12,262.8	11,670.9	11,479.6	43.8	40.7	-60.04	-157.9	810.7	1,428.1	1,354.9	73.28	19.488		
12,350.0	12,301.9	11,718.0	11,502.0	43.9	40.8	-58.11	-198.8	817.7	1,444.6	1,371.4	73.27	19.716		
12,400.0	12,338.3	11,718.0	11,502.0	43.9	40.8	-56.86	-198.8	817.7	1,458.9	1,386.4	72.57	20.105		
12,450.0	12,371.5	11,741.9	11,512.6	44.0	40.9	-55.59	-219.9	821.3	1,472.2	1,399.9	72.30	20.363		
12,500.0	12,401.3	11,769.0	11,524.0	44.1	41.0	-54.54	-244.1	825.5	1,483.8	1,411.6	72.13	20.570		
12,550.0	12,427.5	11,796.4	11,535.0	44.1	41.1	-53.70	-268.8	829.6	1,493.6	1,421.5	72.03	20.735		
12,600.0	12,449.9	11,813.0	11,541.4	44.2	41.1	-53.06	-283.9	832.2	1,501.6	1,429.8	71.84	20.902		
12,650.0	12,468.3	11,846.3	11,553.5	44.3	41.2	-52.66	-314.5	837.5	1,507.8	1,435.8	71.97	20.950		
12,700.0	12,482.6	11,870.1	11,561.5	44.4	41.3	-52.44	-336.6	841.3	1,512.2	1,440.2	72.05	20.990		
12,750.0	12,492.7	11,908.0	11,573.3	44.5	41.5	-52.51	-372.0	847.7	1,515.0	1,442.7	72.38	20.932		
12,800.0	12,498.5	11,908.0	11,573.3	44.6	41.5	-52.45	-372.0	847.7	1,515.9	1,443.5	72.34	20.955		
12,841.3	12,500.0	11,938.1	11,581.8	44.7	41.6	-52.83	-400.4	853.0	1,515.2	1,442.5	72.75	20.829		
12,900.0	12,500.0	11,966.8	11,589.4	44.9	41.7	-53.17	-427.6	858.2	1,514.1	1,440.9	73.21	20.681		
12,923.4	12,500.0	11,978.3	11,592.3	45.0	41.8	-53.31	-438.5	860.4	1,514.0	1,440.6	73.41	20.624		
13,000.0	12,500.0	12,003.0	11,598.2	45.2	41.9	-53.59	-462.0	865.3	1,515.2	1,441.2	73.93	20.495		
13,100.0	12,500.0	12,050.6	11,607.4	45.6	42.2	-54.08	-507.6	874.9	1,520.1	1,445.2	74.82	20.316		
13,200.0	12,500.0	12,098.0	11,612.9	46.0	42.4	-54.46	-553.7	884.7	1,529.2	1,453.5	75.71	20.198		
13,300.0	12,500.0	12,357.6	11,627.8	46.5	43.8	-55.44	-811.0	911.1	1,532.2	1,454.4	77.76	19.705		
13,400.0	12,500.0	12,449.0	11,630.0	47.0	44.4	-55.55	-902.4	913.7	1,532.6	1,453.8	78.79	19.452		
13,500.0	12,500.0	12,517.0	11,630.1	47.6	44.8	-55.58	-970.4	915.6	1,534.2	1,454.5	79.75	19.238		
13,600.0	12,500.0	12,576.4	11,629.6	48.2	45.2	-55.62	-1,029.6	918.7	1,538.4	1,457.7	80.74	19.053		
13,700.0	12,500.0	12,656.9	11,628.5	48.9	45.8	-55.70	-1,109.9	924.5	1,544.6	1,462.7	81.94	18.851		
13,800.0	12,500.0	12,812.7	11,626.2	49.6	47.0	-55.77	-1,265.5	932.8	1,548.9	1,465.3	83.58	18.532		
13,900.0	12,500.0	12,910.3	11,624.1	50.4	47.9	-55.76	-1,363.1	935.8	1,552.1	1,467.2	84.96	18.270		
14,000.0	12,500.0	12,997.9	11,621.6	51.2	48.6	-55.73	-1,450.6	938.6	1,555.7	1,469.4	86.34	18.019		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #218H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 216-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.0	12,500.0	13,162.3	11,620.3	52.0	50.1	-55.77	-1,614.8	944.1	1,558.7	1,470.4	88.29	17.655		
14,102.0	12,500.0	13,164.0	11,620.3	52.1	50.1	-55.77	-1,616.5	944.1	1,558.7	1,470.4	88.32	17.648		
14,200.0	12,500.0	13,262.6	11,619.6	52.9	51.1	-55.76	-1,715.1	944.9	1,559.1	1,469.2	89.89	17.344		
14,300.0	12,500.0	13,372.1	11,625.1	53.8	52.1	-55.97	-1,824.4	948.0	1,557.9	1,466.1	91.80	16.971		
14,334.5	12,500.0	13,396.7	11,625.6	54.2	52.4	-55.99	-1,849.0	948.4	1,557.8	1,465.5	92.35	16.869		
14,400.0	12,500.0	13,455.4	11,625.1	54.8	53.0	-55.97	-1,907.7	948.9	1,558.1	1,464.7	93.44	16.675		
14,500.0	12,500.0	13,549.6	11,625.8	55.8	54.0	-56.01	-2,001.8	950.5	1,558.5	1,463.3	95.22	16.367		
14,600.0	12,500.0	13,631.8	11,624.0	56.8	54.9	-55.96	-2,084.1	951.3	1,559.9	1,463.0	96.90	16.097		
14,700.0	12,500.0	13,694.0	11,623.3	57.8	55.5	-55.97	-2,146.2	953.1	1,562.6	1,464.1	98.52	15.861		
14,800.0	12,500.0	13,755.8	11,623.2	58.9	56.2	-56.04	-2,207.8	957.1	1,567.7	1,467.5	100.21	15.644		
14,900.0	12,500.0	13,828.0	11,623.1	60.0	57.1	-56.18	-2,279.7	964.8	1,575.8	1,473.8	102.06	15.440		
15,000.0	12,500.0	13,920.9	11,623.0	61.1	58.2	-56.37	-2,372.0	974.9	1,584.4	1,480.2	104.18	15.209		
15,100.0	12,500.0	14,005.2	11,623.6	62.3	59.2	-56.59	-2,455.6	985.6	1,593.9	1,487.6	106.27	14.998		
15,200.0	12,500.0	14,371.8	11,627.7	63.5	63.6	-56.73	-2,820.7	989.4	1,588.2	1,477.6	110.54	14.368		
15,300.0	12,500.0	14,465.5	11,624.2	64.7	64.8	-56.43	-2,913.8	980.4	1,581.7	1,469.3	112.37	14.075		
15,400.0	12,500.0	14,537.0	11,619.4	65.9	65.6	-56.12	-2,984.8	972.6	1,575.8	1,461.7	114.08	13.813		
15,500.0	12,500.0	14,607.6	11,614.6	67.1	66.5	-55.83	-3,054.9	966.3	1,571.8	1,455.9	115.82	13.571		
15,600.0	12,500.0	14,681.5	11,609.9	68.3	67.4	-55.60	-3,128.6	962.4	1,570.2	1,452.6	117.63	13.349		
15,700.0	12,500.0	14,808.6	11,603.8	69.6	69.1	-55.29	-3,255.4	957.3	1,569.2	1,449.4	119.76	13.103		
15,800.0	12,500.0	14,880.9	11,601.6	70.9	70.0	-55.16	-3,327.6	954.5	1,567.2	1,445.5	121.69	12.879		
15,832.2	12,500.0	14,901.9	11,601.5	71.3	70.3	-55.15	-3,348.7	954.5	1,567.1	1,444.7	122.33	12.810		
15,900.0	12,500.0	14,950.0	11,602.2	72.2	70.9	-55.19	-3,396.7	955.6	1,567.4	1,443.7	123.76	12.665		
16,000.0	12,500.0	15,045.4	11,606.8	73.5	72.2	-55.44	-3,491.8	961.8	1,569.3	1,443.0	126.31	12.424		
16,100.0	12,500.0	16,100.0	11,610.1	74.8	86.6	-55.55	-3,644.1	963.4	1,567.9	1,428.0	139.95	11.204		
16,191.3	12,500.0	15,259.9	11,606.7	76.0	75.2	-55.37	-3,705.8	960.3	1,566.7	1,435.7	130.94	11.965		
16,200.0	12,500.0	15,264.6	11,606.5	76.2	75.2	-55.36	-3,710.5	960.2	1,566.7	1,435.6	131.10	11.950		
16,300.0	12,500.0	15,336.0	11,603.4	77.5	76.2	-55.25	-3,781.8	960.0	1,568.2	1,435.1	133.10	11.781		
16,400.0	12,500.0	15,424.8	11,602.9	78.9	77.4	-55.28	-3,870.6	962.8	1,570.5	1,435.1	135.43	11.597		
16,500.0	12,500.0	15,538.5	11,608.9	80.2	79.1	-55.64	-3,983.7	972.0	1,573.6	1,435.2	138.39	11.371		
16,600.0	12,500.0	15,688.1	11,619.5	81.6	81.2	-56.11	-4,132.6	980.6	1,573.7	1,431.8	141.82	11.096		
16,700.0	12,500.0	15,793.3	11,622.3	83.0	82.7	-56.19	-4,237.7	981.1	1,571.9	1,427.5	144.42	10.884		
16,769.0	12,500.0	15,838.9	11,620.8	84.0	83.4	-56.11	-4,283.4	980.0	1,571.4	1,425.5	145.86	10.773		
16,800.0	12,500.0	15,864.0	11,619.0	84.4	83.7	-56.04	-4,308.4	979.1	1,571.5	1,425.0	146.48	10.728		
16,900.0	12,500.0	15,941.5	11,612.2	85.8	84.8	-55.76	-4,385.6	976.3	1,572.8	1,424.4	148.43	10.596		
17,000.0	12,500.0	16,043.7	11,603.0	87.2	86.3	-55.40	-4,487.3	973.1	1,574.7	1,424.2	150.50	10.463		
17,100.0	12,500.0	16,272.7	11,599.2	88.7	89.5	-55.06	-4,715.6	963.6	1,570.6	1,417.2	153.45	10.235		
17,200.0	12,500.0	16,340.0	11,602.3	90.1	90.5	-55.11	-4,782.9	962.3	1,565.6	1,409.8	155.86	10.045		
17,300.0	12,500.0	16,410.2	11,603.1	91.5	91.5	-55.10	-4,853.1	961.1	1,562.7	1,404.5	158.18	9.879		
17,400.0	12,500.0	16,491.2	11,602.3	93.0	92.7	-55.02	-4,934.0	959.2	1,560.7	1,400.3	160.47	9.726		
17,488.6	12,500.0	16,560.3	11,601.7	94.3	93.7	-54.98	-5,003.1	958.8	1,560.2	1,397.7	162.51	9.601		
17,500.0	12,500.0	16,569.1	11,601.6	94.4	93.9	-54.98	-5,011.9	958.7	1,560.2	1,397.4	162.76	9.586		
17,600.0	12,500.0	16,652.8	11,597.9	95.9	95.1	-54.83	-5,095.5	957.7	1,561.0	1,396.1	164.96	9.463		
17,700.0	12,500.0	16,745.4	11,593.9	97.4	96.5	-54.68	-5,188.1	957.0	1,562.3	1,395.1	167.23	9.342		
17,800.0	12,500.0	16,826.5	11,587.1	98.8	97.7	-54.43	-5,268.8	955.2	1,564.7	1,395.5	169.22	9.247		
17,900.0	12,500.0	16,944.0	11,577.6	100.3	99.4	-54.07	-5,385.9	952.6	1,567.1	1,395.6	171.44	9.141		
18,000.0	12,500.0	17,054.9	11,571.0	101.8	101.1	-53.82	-5,496.6	950.7	1,568.5	1,394.8	173.73	9.028		
18,100.0	12,500.0	17,186.4	11,569.7	103.3	103.0	-53.77	-5,628.0	951.3	1,569.0	1,392.5	176.51	8.889		
18,200.0	12,500.0	17,284.5	11,573.1	104.8	104.5	-53.90	-5,726.0	953.4	1,568.1	1,388.8	179.28	8.747		
18,246.5	12,500.0	17,319.6	11,574.5	105.5	105.1	-53.96	-5,761.1	954.5	1,567.9	1,387.4	180.48	8.687		
18,300.0	12,500.0	17,358.5	11,575.2	106.3	105.7	-53.99	-5,800.0	955.5	1,568.2	1,386.4	181.79	8.626		
18,400.0	12,500.0	17,491.1	11,574.4	107.8	107.7	-53.97	-5,932.6	956.3	1,568.5	1,383.8	184.62	8.495		
18,466.1	12,500.0	17,539.2	11,573.7	108.8	108.4	-53.93	-5,980.7	955.8	1,568.1	1,382.0	186.13	8.425		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #218H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 216-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		
18,500.0	12,500.0	17,563.8	11,573.0	109.3	108.8	-53.90	-6,005.3	955.6	1,568.2	1,381.3	186.88	8.391		
18,600.0	12,500.0	17,688.4	11,570.8	110.8	110.7	-53.80	-6,129.8	955.0	1,568.3	1,378.7	189.53	8.274		
18,613.8	12,500.0	17,686.5	11,570.7	111.0	110.7	-53.80	-6,127.9	955.0	1,568.3	1,378.5	189.76	8.265		
18,700.0	12,500.0	17,736.5	11,569.7	112.3	111.4	-53.77	-6,177.9	955.4	1,569.3	1,377.7	191.59	8.191		
18,800.0	12,500.0	17,808.3	11,567.0	113.9	112.5	-53.71	-6,249.6	957.1	1,572.8	1,379.0	193.78	8.116		
18,900.0	12,500.0	17,895.9	11,564.2	115.4	113.9	-53.70	-6,337.1	960.7	1,577.3	1,381.1	196.21	8.039		
19,000.0	12,500.0	18,000.4	11,561.6	116.9	115.5	-53.72	-6,441.4	966.1	1,582.4	1,383.4	198.94	7.954		
19,100.0	12,500.0	18,105.7	11,559.9	118.4	117.1	-53.76	-6,546.6	971.0	1,586.5	1,384.8	201.71	7.865		
19,200.0	12,500.0	18,256.4	11,557.6	120.0	119.5	-53.78	-6,697.2	976.2	1,589.7	1,384.7	204.98	7.755		
19,300.0	12,500.0	18,340.6	11,555.6	121.5	120.8	-53.72	-6,781.3	977.0	1,591.3	1,383.9	207.36	7.674		
19,400.0	12,500.0	18,427.1	11,553.4	123.0	122.1	-53.68	-6,867.7	978.7	1,593.8	1,384.0	209.77	7.598		
19,500.0	12,500.0	18,514.9	11,552.7	124.6	123.5	-53.72	-6,955.5	982.4	1,597.1	1,384.7	212.36	7.521		
19,600.0	12,500.0	18,655.5	11,555.6	126.1	125.7	-53.95	-7,095.9	990.1	1,599.7	1,383.8	215.91	7.409		
19,700.0	12,500.0	18,764.9	11,552.3	127.7	127.4	-53.81	-7,205.2	989.1	1,600.1	1,381.7	218.41	7.326		
19,800.0	12,500.0	18,877.1	11,550.6	129.2	129.2	-53.76	-7,317.4	989.6	1,600.8	1,379.7	221.08	7.241		
19,853.2	12,500.0	18,927.3	11,549.5	130.1	129.9	-53.70	-7,367.5	988.8	1,600.5	1,378.2	222.36	7.198		
19,900.0	12,500.0	18,958.3	11,548.7	130.8	130.4	-53.67	-7,398.5	988.7	1,600.8	1,377.4	223.40	7.165		
20,000.0	12,500.0	19,082.2	11,545.0	132.3	132.4	-53.54	-7,522.3	988.7	1,602.1	1,376.1	226.03	7.088		
20,100.0	12,500.0	19,182.0	11,541.2	133.9	133.9	-53.36	-7,622.1	985.7	1,601.4	1,373.1	228.32	7.014		
20,189.7	12,500.0	19,264.1	11,539.4	135.3	135.2	-53.27	-7,704.1	984.8	1,601.2	1,370.7	230.47	6.948		
20,200.0	12,500.0	19,273.5	11,539.3	135.5	135.3	-53.27	-7,713.5	984.8	1,601.2	1,370.5	230.73	6.940		
20,300.0	12,500.0	19,378.5	11,536.8	137.0	137.0	-53.15	-7,818.5	983.6	1,601.2	1,368.0	233.20	6.866		
20,400.0	12,500.0	20,400.0	11,536.9	138.6	152.9	-53.00	-7,995.4	977.6	1,597.3	1,350.1	247.21	6.462		
20,500.0	12,500.0	19,675.0	11,543.4	140.1	141.6	-53.08	-8,114.6	973.9	1,590.8	1,352.0	238.84	6.660		
20,600.0	12,500.0	19,747.0	11,547.1	141.7	142.7	-53.15	-8,186.4	972.4	1,585.4	1,343.8	241.60	6.562		
20,700.0	12,500.0	19,846.5	11,550.9	143.3	144.3	-53.20	-8,285.8	970.6	1,581.0	1,336.6	244.39	6.469		
20,800.0	12,500.0	19,933.4	11,554.9	144.9	145.7	-53.29	-8,372.6	969.7	1,576.9	1,329.7	247.21	6.379		
20,900.0	12,500.0	20,004.9	11,558.6	146.4	146.8	-53.40	-8,444.1	970.4	1,574.0	1,324.0	250.00	6.296		
21,000.0	12,500.0	20,086.7	11,561.3	148.0	148.1	-53.50	-8,525.8	972.0	1,573.0	1,320.2	252.78	6.223		
21,100.0	12,500.0	20,197.2	11,563.7	149.6	149.9	-53.58	-8,636.3	973.3	1,572.0	1,316.3	255.74	6.147		
21,200.0	12,500.0	20,302.7	11,566.5	151.2	151.5	-53.66	-8,741.7	974.0	1,570.4	1,311.7	258.66	6.071		
21,300.0	12,500.0	20,395.8	11,568.1	152.7	153.0	-53.69	-8,834.8	974.0	1,568.8	1,307.4	261.40	6.002		
21,400.0	12,500.0	20,499.2	11,569.8	154.3	154.6	-53.73	-8,938.2	974.5	1,567.5	1,303.3	264.24	5.932		
21,500.0	12,500.0	20,605.6	11,571.1	155.9	156.3	-53.74	-9,044.6	973.9	1,565.8	1,298.8	267.01	5.864		
21,600.0	12,500.0	20,686.3	11,572.0	157.5	157.6	-53.75	-9,125.3	973.8	1,564.4	1,294.8	269.61	5.802		
21,700.0	12,500.0	20,779.9	11,571.0	159.1	159.1	-53.70	-9,218.8	973.4	1,564.1	1,291.9	272.14	5.747		
21,800.0	12,500.0	20,899.4	11,569.9	160.7	161.0	-53.62	-9,338.3	972.4	1,563.3	1,288.5	274.84	5.688		
21,900.0	12,500.0	20,982.0	11,570.7	162.3	162.3	-53.64	-9,421.0	972.6	1,562.4	1,284.9	277.46	5.631		
22,000.0	12,500.0	21,086.9	11,572.1	163.8	164.0	-53.69	-9,525.8	973.8	1,561.9	1,281.6	280.34	5.571		
22,100.0	12,500.0	21,218.2	11,570.4	165.4	166.1	-53.56	-9,657.0	971.0	1,560.4	1,277.5	282.94	5.515		
22,200.0	12,500.0	21,320.7	11,567.6	167.0	167.7	-53.33	-9,759.4	965.2	1,556.9	1,271.8	285.09	5.461		
22,300.0	12,500.0	21,388.3	11,566.6	168.6	168.8	-53.25	-9,826.9	963.5	1,555.1	1,267.7	287.41	5.411		
22,350.4	12,500.0	21,426.6	11,566.2	169.4	169.4	-53.23	-9,865.2	963.3	1,554.9	1,266.3	288.61	5.387		
22,400.0	12,500.0	21,468.0	11,565.7	170.2	170.0	-53.21	-9,906.6	963.5	1,555.1	1,265.2	289.84	5.365		
22,500.0	12,500.0	21,565.5	11,565.1	171.8	171.6	-53.20	-10,004.1	964.7	1,555.9	1,263.4	292.51	5.319		
22,600.0	12,500.0	21,693.5	11,572.2	173.4	173.7	-53.51	-10,131.7	969.9	1,555.1	1,258.8	296.28	5.249		
22,700.0	12,500.0	21,795.8	11,578.1	175.0	175.3	-53.75	-10,233.8	974.0	1,554.2	1,254.6	299.69	5.186		
22,796.4	12,500.0	21,873.1	11,582.7	176.6	176.6	-53.93	-10,310.9	976.5	1,553.0	1,250.4	302.65	5.131		
22,800.0	12,500.0	21,874.7	11,582.8	176.6	176.6	-53.94	-10,312.5	976.6	1,553.0	1,250.3	302.74	5.130		
22,900.0	12,500.0	21,919.8	11,582.5	178.2	177.3	-53.95	-10,357.6	977.8	1,554.9	1,250.1	304.82	5.101		
23,000.0	12,500.0	21,995.2	11,577.9	179.8	178.5	-53.84	-10,432.8	979.8	1,559.8	1,253.0	306.86	5.083		
23,100.0	12,500.0	22,090.4	11,574.4	181.4	180.1	-53.82	-10,527.8	984.1	1,565.1	1,255.7	309.45	5.058		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #218H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 216-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		
23,200.0	12,500.0	22,302.4	11,574.9	183.0	183.5	-53.97	-10,739.6	992.3	1,568.0	1,253.9	314.07	4.992		
23,300.0	12,500.0	22,400.2	11,577.0	184.6	185.1	-54.02	-10,837.4	992.4	1,566.1	1,249.2	316.94	4.942		
23,400.0	12,500.0	22,485.9	11,576.9	186.2	186.4	-54.00	-10,923.1	991.9	1,565.1	1,245.6	319.52	4.898		
23,500.0	12,500.0	22,593.3	11,573.4	187.8	188.2	-53.82	-11,030.3	989.4	1,564.5	1,242.7	321.82	4.861		
23,600.0	12,500.0	22,729.1	11,573.0	189.4	190.3	-53.70	-11,166.1	985.5	1,561.6	1,237.2	324.42	4.813		
23,700.0	12,500.0	22,796.0	11,574.4	191.0	191.4	-53.72	-11,233.0	985.1	1,559.3	1,232.3	327.06	4.768		
23,771.8	12,500.0	22,849.3	11,575.1	192.2	192.3	-53.75	-11,286.2	985.6	1,558.9	1,229.9	328.96	4.739		
23,800.0	12,500.0	22,869.9	11,575.3	192.6	192.6	-53.76	-11,306.9	986.0	1,558.9	1,229.2	329.69	4.728		
23,900.0	12,500.0	22,940.0	11,575.1	194.3	193.7	-53.77	-11,376.9	987.6	1,560.4	1,228.2	332.13	4.698		
24,000.0	12,500.0	24,000.0	11,571.0	195.9	210.8	-53.65	-11,495.4	988.3	1,562.3	1,214.6	347.70	4.493		
24,100.0	12,500.0	23,196.2	11,569.7	197.5	197.8	-53.55	-11,633.0	986.6	1,560.8	1,223.3	337.56	4.624		
24,161.2	12,500.0	23,238.9	11,568.1	198.5	198.5	-53.47	-11,675.7	985.4	1,560.5	1,221.6	338.85	4.605		
24,200.0	12,500.0	23,271.0	11,566.0	199.1	199.0	-53.38	-11,707.7	984.3	1,560.6	1,221.1	339.58	4.596		
24,300.0	12,500.0	23,351.4	11,559.2	200.7	200.3	-53.09	-11,787.7	981.1	1,561.9	1,220.7	341.23	4.577		
24,400.0	12,500.0	23,438.4	11,552.0	202.3	201.7	-52.81	-11,874.4	978.6	1,564.1	1,221.1	342.93	4.561		
24,500.0	12,500.0	23,514.1	11,548.0	203.9	202.9	-52.70	-11,950.0	979.2	1,567.3	1,222.4	344.91	4.544		
24,600.0	12,500.0	23,592.8	11,545.3	205.5	204.2	-52.68	-12,028.6	982.7	1,572.2	1,225.0	347.21	4.528		
24,700.0	12,500.0	23,686.7	11,543.3	207.1	205.7	-52.74	-12,122.2	988.8	1,578.0	1,228.0	350.01	4.509		
24,800.0	12,500.0	23,810.3	11,540.0	208.8	207.8	-52.77	-12,245.6	995.4	1,583.4	1,230.1	353.31	4.482		
24,811.6	12,500.0	23,826.4	11,540.2	208.9	208.0	-52.80	-12,261.6	996.5	1,583.9	1,230.1	353.81	4.477 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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #224H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 174-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	89.54	0.7	90.1	90.1					
100.0	100.0	97.8	97.8	0.1	0.1	89.52	0.8	90.2	90.2	89.9	0.28	327.990		
200.0	200.0	197.6	197.6	0.5	0.3	89.44	0.9	90.5	90.5	89.7	0.83	108.716		
300.0	300.0	297.2	297.2	0.8	0.7	89.18	1.3	91.1	91.1	89.6	1.55	58.871		
400.0	400.0	397.0	397.0	1.2	1.1	88.68	2.1	92.1	92.2	89.9	2.26	40.708		
500.0	500.0	496.9	496.9	1.6	1.4	87.99	3.3	93.2	93.3	90.3	2.98	31.304		
600.0	600.0	596.6	596.6	1.9	1.8	87.11	4.8	94.5	94.6	90.9	3.70	25.600		
700.0	700.0	696.2	696.1	2.3	2.1	86.09	6.6	96.1	96.4	91.9	4.41	21.841		
800.0	800.0	795.9	795.8	2.6	2.5	84.89	8.8	98.0	98.4	93.3	5.13	19.198		
900.0	900.0	895.6	895.4	3.0	2.9	83.49	11.4	100.2	100.9	95.0	5.84	17.259		
1,000.0	1,000.0	995.5	995.2	3.4	3.2	82.06	14.3	102.5	103.5	96.9	6.56	15.772		
1,100.0	1,100.0	1,095.4	1,095.1	3.7	3.6	80.84	16.9	104.8	106.2	98.9	7.28	14.594		
1,200.0	1,200.0	1,197.0	1,196.7	4.1	3.9	80.13	18.6	107.0	108.6	100.6	8.00	13.577		
1,300.0	1,300.0	1,298.9	1,298.6	4.4	4.3	79.99	18.9	107.0	108.7	100.0	8.71	12.479		
1,400.0	1,400.0	1,399.2	1,398.8	4.8	4.6	79.99	18.8	106.3	107.9	98.5	9.40	11.481		
1,500.0	1,500.0	1,499.4	1,499.1	5.1	5.0	80.22	18.2	105.5	107.1	97.0	10.09	10.613		
1,600.0	1,600.0	1,599.8	1,599.4	5.5	5.3	80.54	17.4	104.5	105.9	95.1	10.78	9.822		
1,700.0	1,700.0	1,700.1	1,699.7	5.9	5.6	80.89	16.5	103.1	104.4	92.9	11.48	9.097		
1,800.0	1,800.0	1,800.2	1,799.8	6.2	6.0	81.26	15.6	101.5	102.7	90.5	12.18	8.436		
1,900.0	1,900.0	1,900.2	1,899.8	6.6	6.3	81.68	14.6	99.9	100.9	88.1	12.88	7.840		
2,000.0	2,000.0	1,999.3	1,998.9	6.9	6.6	81.87	14.1	98.7	99.7	86.1	13.58	7.344		
2,074.5	2,074.5	2,074.0	2,073.6	7.2	6.9	141.95	14.1	98.0	99.4	85.3	14.10	7.049		
2,100.0	2,100.0	2,099.5	2,099.1	7.3	7.0	142.04	14.1	97.7	99.4	85.2	14.28	6.963 ES		
2,200.0	2,200.0	2,199.9	2,199.5	7.6	7.3	142.69	14.4	96.4	100.3	85.3	14.98	6.694		
2,300.0	2,299.9	2,300.4	2,299.9	8.0	7.7	143.77	14.9	94.3	101.8	86.1	15.68	6.489		
2,402.1	2,401.8	2,401.3	2,400.8	8.4	8.0	145.31	15.5	92.8	105.3	88.9	16.40	6.425		
2,500.0	2,499.4	2,498.5	2,498.0	8.7	8.4	147.12	15.8	92.2	110.5	93.4	17.08	6.465		
2,600.0	2,599.2	2,598.7	2,598.2	9.1	8.7	148.93	16.0	91.5	115.7	97.9	17.79	6.505		
2,700.0	2,698.9	2,696.9	2,696.4	9.4	9.1	150.56	16.1	90.9	121.1	102.7	18.49	6.554		
2,800.0	2,798.7	2,794.8	2,794.3	9.8	9.4	151.98	16.3	92.3	128.8	109.6	19.18	6.716		
2,900.0	2,898.4	2,894.4	2,893.9	10.1	9.8	153.21	16.6	94.2	136.9	117.0	19.87	6.887		
3,000.0	2,998.2	2,994.9	2,994.3	10.5	10.1	154.24	17.0	95.9	144.8	124.2	20.58	7.036		
3,100.0	3,098.0	3,094.9	3,094.4	10.9	10.5	155.21	17.4	97.0	152.2	131.0	21.29	7.153		
3,200.0	3,197.7	3,194.4	3,193.8	11.2	10.8	156.14	17.7	98.1	159.7	137.7	21.99	7.264		
3,300.0	3,297.5	3,294.6	3,294.0	11.6	11.2	157.03	17.8	99.2	167.2	144.5	22.69	7.367		
3,400.0	3,397.2	3,393.3	3,392.7	12.0	11.5	157.95	17.6	100.2	174.8	151.4	23.39	7.471		
3,500.0	3,497.0	3,491.8	3,491.2	12.3	11.9	158.99	16.6	101.8	183.0	158.9	24.08	7.599		
3,600.0	3,596.7	3,591.1	3,590.5	12.7	12.2	160.07	15.2	103.7	191.7	166.9	24.78	7.735		
3,700.0	3,696.5	3,688.2	3,687.5	13.1	12.5	161.23	13.0	106.2	201.3	175.8	25.46	7.904		
3,800.0	3,796.2	3,791.5	3,790.8	13.4	12.9	162.27	11.0	108.6	210.6	184.4	26.20	8.038		
3,900.0	3,896.0	3,896.1	3,895.3	13.8	13.3	162.43	12.5	109.2	217.5	190.6	26.93	8.076		
4,000.0	3,995.7	3,996.3	3,995.5	14.2	13.6	162.17	15.8	109.1	223.4	195.8	27.64	8.082		
4,100.0	4,095.5	4,095.9	4,095.1	14.5	14.0	161.96	18.8	109.0	229.4	201.0	28.35	8.090		
4,200.0	4,195.2	4,195.9	4,195.1	14.9	14.3	161.84	21.6	108.9	235.3	206.2	29.06	8.096		
4,300.0	4,295.0	4,296.0	4,295.1	15.3	14.7	161.85	23.8	108.5	241.1	211.4	29.77	8.099		
4,400.0	4,394.8	4,395.2	4,394.3	15.6	15.0	162.20	24.7	107.9	247.0	216.5	30.48	8.103		
4,500.0	4,494.5	4,494.1	4,493.2	16.0	15.4	162.65	24.9	107.5	253.3	222.1	31.18	8.123		
4,600.0	4,594.3	4,593.6	4,592.7	16.4	15.7	163.03	25.3	107.4	259.8	227.9	31.89	8.146		
4,700.0	4,694.0	4,693.3	4,692.4	16.7	16.1	163.35	25.9	107.4	266.3	233.7	32.60	8.170		
4,800.0	4,793.8	4,793.2	4,792.3	17.1	16.4	163.60	26.7	107.4	272.9	239.6	33.31	8.192		
4,900.0	4,893.5	4,892.9	4,892.0	17.5	16.8	163.79	27.7	107.5	279.5	245.4	34.03	8.213		
5,000.0	4,993.3	4,992.9	4,991.9	17.9	17.1	164.00	28.7	107.5	286.0	251.3	34.74	8.233		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #224H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 174-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	5,093.0	5,092.6	5,091.7	18.2	17.5	164.25	29.4	107.4	292.5	257.1	35.45	8.251		
5,200.0	5,192.8	5,193.2	5,192.3	18.6	17.8	164.51	30.0	107.2	298.9	262.7	36.17	8.265		
5,300.0	5,292.5	5,293.0	5,292.1	19.0	18.2	164.77	30.6	106.9	305.2	268.3	36.88	8.275		
5,400.0	5,392.3	5,393.7	5,392.8	19.3	18.5	164.99	31.4	106.4	311.3	273.7	37.59	8.280		
5,500.0	5,492.0	5,493.3	5,492.3	19.7	18.9	165.23	32.1	105.8	317.3	279.0	38.30	8.284		
5,600.0	5,591.8	5,593.1	5,592.1	20.1	19.3	165.50	32.5	105.2	323.4	284.4	39.01	8.289		
5,700.0	5,691.6	5,693.1	5,692.2	20.4	19.6	165.79	32.8	104.4	329.4	289.7	39.72	8.292		
5,800.0	5,791.3	5,792.7	5,791.7	20.8	20.0	166.09	33.0	103.7	335.5	295.0	40.43	8.297		
5,900.0	5,891.1	5,893.0	5,892.1	21.2	20.3	166.43	32.9	102.9	341.5	300.4	41.14	8.301		
6,000.0	5,990.8	5,993.1	5,992.2	21.6	20.6	166.80	32.6	101.8	347.3	305.5	41.85	8.300		
6,100.0	6,090.6	6,092.6	6,091.6	21.9	21.0	167.16	32.2	100.7	353.3	310.7	42.55	8.302		
6,200.0	6,190.3	6,191.8	6,190.9	22.3	21.3	167.55	31.7	99.7	359.3	316.0	43.25	8.307		
6,300.0	6,290.1	6,289.9	6,288.9	22.7	21.7	167.92	31.0	99.0	365.6	321.7	43.95	8.320		
6,400.0	6,389.8	6,388.7	6,387.7	23.0	22.0	168.32	29.9	98.6	372.5	327.8	44.64	8.343		
6,500.0	6,489.6	6,490.0	6,489.0	23.4	22.4	168.75	28.6	98.0	379.2	333.9	45.35	8.362		
6,600.0	6,589.3	6,590.8	6,589.8	23.8	22.7	169.18	27.3	97.0	385.6	339.5	46.06	8.370		
6,700.0	6,689.1	6,690.0	6,689.0	24.2	23.1	169.60	26.1	95.9	391.9	345.1	46.77	8.380		
6,800.0	6,788.8	6,788.7	6,787.7	24.5	23.4	170.01	24.7	95.1	398.4	351.0	47.46	8.394		
6,900.0	6,888.6	6,888.1	6,887.1	24.9	23.7	170.42	23.1	94.3	405.2	357.0	48.17	8.412		
7,000.0	6,988.4	6,989.1	6,988.0	25.3	24.1	170.81	21.7	93.5	411.8	363.0	48.88	8.426		
7,100.0	7,088.1	7,088.5	7,087.4	25.7	24.4	171.15	20.6	92.6	418.3	368.7	49.58	8.437		
7,200.0	7,187.9	7,182.2	7,181.1	26.0	24.8	171.36	20.0	92.8	425.7	375.5	50.25	8.472		
7,300.0	7,287.6	7,280.8	7,279.7	26.4	25.1	171.50	19.5	94.0	433.9	383.0	50.94	8.517		
7,400.0	7,387.4	7,380.7	7,379.6	26.8	25.4	171.67	18.7	95.1	442.2	390.5	51.65	8.561		
7,500.0	7,487.1	7,479.8	7,478.7	27.1	25.8	171.88	17.6	96.1	450.5	398.1	52.35	8.605		
7,600.0	7,586.9	7,579.0	7,577.8	27.5	26.1	172.11	16.3	97.2	458.9	405.9	53.05	8.651		
7,700.0	7,686.6	7,679.1	7,677.9	27.9	26.5	172.33	14.9	98.2	467.3	413.6	53.76	8.693		
7,800.0	7,786.4	7,779.3	7,778.2	28.3	26.8	172.48	14.2	99.4	475.7	421.2	54.47	8.733		
7,900.0	7,886.1	7,879.4	7,878.3	28.6	27.2	172.60	13.6	100.5	483.8	428.7	55.18	8.769		
7,973.2	7,959.2	7,952.7	7,951.5	28.9	27.4	172.69	13.1	101.3	489.8	434.1	55.69	8.795		
8,000.0	7,958.9	7,979.7	7,978.5	29.0	27.5	172.73	12.9	101.5	491.9	436.0	55.89	8.802		
8,100.0	8,058.8	8,081.1	8,079.9	29.4	27.9	172.86	12.3	102.3	497.8	441.2	56.60	8.795		
8,200.0	8,158.7	8,182.0	8,180.8	29.7	28.2	172.93	11.7	102.8	500.8	443.5	57.31	8.738		
8,241.3	8,227.0	8,223.7	8,222.6	29.9	28.4	113.01	11.5	102.9	501.3	443.7	57.60	8.702		
8,300.0	8,285.7	8,284.0	8,282.8	30.1	28.6	113.04	11.1	103.0	501.5	443.4	58.02	8.642		
8,400.0	8,385.7	8,386.3	8,385.2	30.4	28.9	113.11	10.6	102.7	501.4	442.7	58.74	8.536		
8,500.0	8,485.7	8,484.8	8,483.7	30.8	29.3	113.20	9.9	102.2	501.2	441.8	59.43	8.434		
8,547.2	8,532.9	8,533.6	8,532.4	30.9	29.4	113.24	9.6	102.0	501.2	441.4	59.77	8.385		
8,600.0	8,585.7	8,588.2	8,587.1	31.1	29.6	113.27	9.5	101.7	500.9	440.8	60.15	8.328		
8,700.0	8,685.7	8,690.9	8,689.7	31.5	30.0	113.27	9.9	100.8	500.0	439.1	60.86	8.214		
8,800.0	8,785.7	8,791.0	8,789.8	31.8	30.3	113.23	10.7	99.8	498.8	437.2	61.57	8.102		
8,900.0	8,885.7	8,892.2	8,891.0	32.2	30.7	113.23	11.2	98.5	497.4	435.1	62.27	7.987		
9,000.0	8,985.7	8,992.5	8,991.3	32.5	31.0	113.27	11.5	97.1	496.0	433.0	62.98	7.876		
9,100.0	9,085.7	9,092.1	9,090.9	32.8	31.4	113.29	12.0	95.5	494.3	430.6	63.68	7.763		
9,200.0	9,185.7	9,189.4	9,188.1	33.2	31.7	113.04	14.3	95.4	493.3	428.9	64.37	7.663		
9,300.0	9,285.7	9,286.2	9,284.8	33.5	32.1	112.48	19.0	96.6	492.5	427.5	65.05	7.571		
9,317.0	9,302.8	9,302.2	9,300.8	33.6	32.1	112.39	19.8	96.9	492.5	427.4	65.17	7.558		
9,400.0	9,385.7	9,384.0	9,382.5	33.9	32.4	111.95	23.2	98.6	492.8	427.0	65.74	7.496		
9,500.0	9,485.7	9,486.0	9,484.4	34.2	32.8	111.27	28.6	100.8	492.8	426.4	66.46	7.416		
9,600.0	9,585.7	9,589.1	9,587.1	34.6	33.1	110.22	37.2	103.6	492.5	425.3	67.18	7.331		
9,700.0	9,685.7	9,694.9	9,692.2	34.9	33.5	108.86	48.6	106.4	491.3	423.4	67.91	7.235		
9,800.0	9,785.7	9,801.3	9,797.9	35.3	33.9	107.40	61.2	107.9	489.0	420.4	68.64	7.124		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #224H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 174-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,900.0	9,885.7	9,908.2	9,903.8	35.6	34.3	105.80	75.3	108.3	485.5	416.1	69.37	6.999		
10,000.0	9,985.7	9,994.4	9,989.3	36.0	34.6	104.48	86.6	109.1	483.0	412.9	70.04	6.895		
10,100.0	10,085.7	10,091.7	10,085.8	36.3	34.9	103.00	98.9	111.3	482.2	411.5	70.74	6.817		
10,200.0	10,185.7	10,190.6	10,183.8	36.7	35.3	101.52	111.1	113.8	482.0	410.5	71.45	6.746		
10,203.4	10,189.2	10,193.9	10,187.2	36.7	35.3	101.47	111.6	113.9	482.0	410.5	71.47	6.744		
10,300.0	10,285.7	10,284.2	10,276.7	37.0	35.6	100.15	122.3	116.7	482.8	410.6	72.12	6.694		
10,400.0	10,385.7	10,381.7	10,373.5	37.4	36.0	98.80	133.3	120.3	484.6	411.7	72.81	6.655		
10,500.0	10,485.7	10,481.9	10,473.2	37.7	36.3	97.56	143.4	123.9	486.7	413.2	73.53	6.620		
10,600.0	10,585.7	10,585.4	10,576.1	38.1	36.7	96.37	153.2	127.0	488.6	414.3	74.27	6.578		
10,700.0	10,685.7	10,688.1	10,678.4	38.4	37.1	95.30	162.1	129.3	489.9	414.9	75.01	6.531		
10,800.0	10,785.7	10,790.7	10,780.7	38.8	37.4	94.49	169.0	130.7	490.7	415.0	75.74	6.479		
10,900.0	10,885.7	10,893.0	10,882.9	39.1	37.8	93.80	174.8	131.6	491.2	414.7	76.47	6.423		
11,000.0	10,985.7	10,995.6	10,985.4	39.5	38.2	93.32	178.9	131.7	491.0	413.8	77.20	6.361		
11,068.3	11,054.0	11,062.2	11,052.0	39.7	38.4	93.09	180.9	131.6	490.8	413.1	77.67	6.319		
11,100.0	11,085.7	11,091.5	11,081.3	39.8	38.5	92.99	181.8	131.7	490.9	413.0	77.88	6.303		
11,200.0	11,185.7	11,187.6	11,177.3	40.2	38.8	92.58	185.2	132.9	491.9	413.4	78.57	6.262		
11,300.0	11,285.7	11,287.8	11,277.5	40.5	39.2	92.16	188.8	134.4	493.3	414.0	79.28	6.222		
11,400.0	11,385.7	11,391.6	11,381.2	40.9	39.6	91.82	191.7	135.6	494.3	414.3	80.01	6.178		
11,500.0	11,485.7	11,493.7	11,483.2	41.2	39.9	91.66	193.1	135.7	494.4	413.7	80.73	6.124		
11,600.0	11,585.7	11,587.3	11,576.0	41.6	40.2	92.94	182.0	135.8	495.0	413.7	81.37	6.084		
11,700.0	11,685.7	11,666.5	11,651.7	42.0	40.5	95.59	158.9	136.9	498.8	417.1	81.77	6.100		
11,800.0	11,785.7	11,750.7	11,727.3	42.3	40.7	99.74	122.1	138.5	507.4	425.4	82.02	6.187		
11,900.0	11,885.7	11,805.1	11,773.4	42.7	40.8	102.91	93.1	140.0	523.2	441.9	81.31	6.435		
11,941.3	11,927.0	11,824.8	11,789.7	42.8	40.9	104.06	82.2	141.4	532.8	452.0	80.77	6.596		
11,950.0	11,935.7	11,828.9	11,793.1	42.8	40.9	-75.04	79.9	141.8	535.0	454.4	80.64	6.635		
12,000.0	11,985.6	11,860.0	11,818.4	43.0	41.0	-72.10	62.1	145.1	548.7	468.6	80.09	6.852		
12,050.0	12,035.1	11,890.5	11,842.8	43.1	41.1	-69.43	44.1	148.8	562.9	483.5	79.45	7.085		
12,100.0	12,083.7	11,934.2	11,877.1	43.3	41.2	-66.57	17.5	153.7	576.4	497.1	79.28	7.271		
12,150.0	12,131.2	11,954.0	11,892.3	43.4	41.3	-64.74	5.1	155.7	589.3	511.2	78.17	7.539		
12,200.0	12,177.0	11,993.1	11,921.2	43.6	41.4	-62.59	-20.9	160.0	601.7	523.9	77.79	7.734		
12,250.0	12,221.0	12,018.0	11,938.3	43.7	41.4	-60.92	-38.7	163.0	614.3	537.4	76.83	7.995		
12,300.0	12,262.8	12,046.0	11,956.3	43.8	41.5	-59.34	-59.9	166.7	626.7	550.7	75.99	8.247		
12,350.0	12,301.9	12,079.5	11,976.5	43.9	41.6	-57.88	-86.3	171.1	638.5	563.1	75.41	8.467		
12,400.0	12,338.3	12,118.5	11,998.7	43.9	41.7	-56.61	-118.0	175.8	648.8	573.7	75.08	8.642		
12,450.0	12,371.5	12,139.0	12,009.8	44.0	41.8	-55.70	-135.1	178.1	657.8	583.7	74.14	8.873		
12,500.0	12,401.3	12,172.0	12,026.1	44.1	41.9	-54.87	-163.5	181.9	665.9	592.2	73.74	9.031		
12,550.0	12,427.5	12,194.2	12,035.7	44.1	41.9	-54.21	-183.3	184.7	673.7	600.7	73.08	9.220		
12,600.0	12,449.9	12,233.0	12,049.7	44.2	42.1	-53.67	-219.0	190.1	681.5	608.5	73.00	9.335		
12,650.0	12,468.3	12,233.0	12,049.7	44.3	42.1	-53.16	-219.0	190.1	687.8	615.7	72.08	9.542		
12,700.0	12,482.6	12,267.0	12,059.3	44.4	42.2	-52.92	-251.2	195.2	693.6	621.4	72.18	9.609		
12,750.0	12,492.7	12,294.3	12,065.6	44.5	42.2	-52.78	-277.5	199.3	698.4	626.1	72.28	9.663		
12,800.0	12,498.5	12,327.0	12,071.4	44.6	42.3	-52.86	-309.3	204.3	702.3	629.6	72.62	9.670		
12,841.3	12,500.0	12,344.0	12,073.8	44.7	42.4	-52.93	-325.9	207.1	704.6	631.7	72.91	9.665		
12,900.0	12,500.0	12,375.4	12,077.9	44.9	42.5	-53.48	-356.4	213.1	708.7	635.2	73.56	9.635		
13,000.0	12,500.0	12,429.8	12,084.0	45.2	42.7	-54.47	-408.9	226.0	721.0	646.2	74.81	9.638		
13,100.0	12,500.0	12,498.0	12,087.6	45.6	43.0	-55.49	-474.7	243.4	738.6	662.5	76.13	9.702		
13,200.0	12,500.0	12,661.2	12,086.9	46.0	43.7	-56.66	-635.1	272.9	752.8	675.2	77.57	9.704		
13,300.0	12,500.0	12,753.2	12,082.8	46.5	44.1	-56.83	-726.3	283.8	764.6	686.1	78.50	9.740		
13,400.0	12,500.0	12,901.4	12,076.3	47.0	45.0	-56.99	-873.6	298.8	775.3	695.7	79.68	9.731		
13,500.0	12,500.0	13,003.1	12,073.2	47.6	45.6	-57.03	-975.0	305.4	781.9	701.1	80.77	9.681		
13,600.0	12,500.0	13,134.8	12,074.5	48.2	46.5	-57.29	-1,106.5	310.9	783.8	701.6	82.25	9.530		
13,700.0	12,500.0	13,283.5	12,079.4	48.9	47.6	-57.71	-1,255.1	314.8	784.2	700.1	84.06	9.330		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #224H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 174-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,800.0	12,500.0	13,370.1	12,079.2	49.6	48.3	-57.55	-1,341.6	312.0	780.9	695.7	85.20	9.166		
13,900.0	12,500.0	13,453.6	12,075.5	50.4	49.0	-57.17	-1,425.0	308.5	779.1	692.9	86.21	9.038		
13,994.6	12,500.0	13,542.8	12,071.0	51.2	49.7	-56.76	-1,514.0	305.9	778.8	691.5	87.26	8.925		
14,000.0	12,500.0	13,547.8	12,070.8	51.2	49.8	-56.74	-1,519.0	305.8	778.8	691.5	87.32	8.919		
14,100.0	12,500.0	13,637.5	12,065.9	52.0	50.6	-56.34	-1,608.6	304.0	779.5	691.0	88.48	8.810		
14,200.0	12,500.0	13,708.3	12,062.1	52.9	51.3	-56.11	-1,679.2	304.8	782.8	693.1	89.68	8.729		
14,300.0	12,500.0	13,793.9	12,059.2	53.8	52.1	-56.12	-1,764.7	310.0	789.1	697.9	91.22	8.651		
14,400.0	12,500.0	13,926.9	12,055.9	54.8	53.4	-56.17	-1,897.4	317.2	794.4	701.2	93.25	8.520		
14,500.0	12,500.0	14,025.8	12,051.8	55.8	54.5	-55.95	-1,996.2	318.5	797.2	702.4	94.83	8.407		
14,600.0	12,500.0	14,120.9	12,047.2	56.8	55.5	-55.71	-2,091.1	319.8	800.5	704.1	96.39	8.304		
14,700.0	12,500.0	14,219.6	12,045.3	57.8	56.6	-55.70	-2,189.8	323.4	804.0	705.7	98.25	8.183		
14,800.0	12,500.0	14,337.6	12,045.5	58.9	57.9	-55.92	-2,307.6	329.3	807.5	707.0	100.51	8.034		
14,900.0	12,500.0	14,454.3	12,048.3	60.0	59.2	-56.14	-2,424.2	331.6	807.1	704.3	102.82	7.849		
15,000.0	12,500.0	14,551.6	12,048.1	61.1	60.4	-56.10	-2,521.5	331.7	806.6	701.8	104.77	7.699		
15,100.0	12,500.0	14,654.7	12,043.8	62.3	61.6	-55.71	-2,624.5	329.0	806.2	699.7	106.48	7.571		
15,159.7	12,500.0	14,709.2	12,041.1	63.0	62.2	-55.47	-2,678.9	327.3	805.9	698.5	107.45	7.501		
15,200.0	12,500.0	14,744.5	12,040.3	63.5	62.7	-55.40	-2,714.2	327.1	806.1	697.9	108.18	7.451		
15,300.0	12,500.0	14,846.6	12,040.0	64.7	63.9	-55.41	-2,816.2	328.6	806.7	696.4	110.31	7.313		
15,400.0	12,500.0	14,944.9	12,039.5	65.9	65.1	-55.39	-2,914.6	329.5	807.2	694.8	112.41	7.181		
15,500.0	12,500.0	15,041.1	12,039.7	67.1	66.4	-55.44	-3,010.8	331.2	808.0	693.4	114.60	7.050		
15,600.0	12,500.0	15,138.0	12,041.8	68.3	67.6	-55.68	-3,107.5	334.9	809.2	692.2	117.02	6.915		
15,700.0	12,500.0	15,228.9	12,041.8	69.6	68.8	-55.77	-3,198.4	337.8	811.2	691.9	119.25	6.802		
15,800.0	12,500.0	15,321.5	12,039.3	70.9	70.0	-55.69	-3,291.0	340.2	814.2	692.9	121.35	6.710		
15,900.0	12,500.0	15,441.5	12,035.9	72.2	71.6	-55.51	-3,410.9	341.6	816.2	692.5	123.68	6.599		
16,000.0	12,500.0	15,534.9	12,034.2	73.5	72.9	-55.45	-3,504.2	343.1	817.9	692.0	125.84	6.500		
16,100.0	12,500.0	15,648.2	12,032.6	74.8	74.4	-55.34	-3,617.5	343.6	818.3	690.1	128.19	6.384		
16,200.0	12,500.0	15,743.1	12,029.5	76.2	75.7	-55.11	-3,712.4	343.0	819.0	688.8	130.23	6.289		
16,300.0	12,500.0	15,844.4	12,025.7	77.5	77.1	-54.82	-3,813.5	342.0	819.7	687.5	132.27	6.198		
16,400.0	12,500.0	15,943.5	12,019.5	78.9	78.4	-54.33	-3,912.4	339.2	820.5	686.4	134.04	6.121		
16,500.0	12,500.0	16,061.6	12,012.3	80.2	80.1	-53.71	-4,030.3	335.1	820.7	684.9	135.85	6.041		
16,600.0	12,500.0	16,156.9	12,009.4	81.6	81.4	-53.40	-4,125.4	332.1	819.3	681.5	137.80	5.946		
16,700.0	12,500.0	16,263.3	12,009.9	83.0	82.9	-53.38	-4,231.8	331.9	818.4	678.2	140.23	5.836		
16,786.3	12,500.0	16,337.1	12,010.8	84.2	84.0	-53.43	-4,305.6	332.4	817.7	675.4	142.26	5.748		
16,800.0	12,500.0	16,348.5	12,010.7	84.4	84.1	-53.42	-4,317.0	332.4	817.7	675.1	142.55	5.736		
16,900.0	12,500.0	16,448.5	12,008.7	85.8	85.6	-53.28	-4,417.0	332.3	818.2	673.4	144.79	5.651		
17,000.0	12,500.0	16,539.0	12,008.1	87.2	86.9	-53.26	-4,507.4	333.4	818.9	671.8	147.10	5.567		
17,100.0	12,500.0	16,633.2	12,007.0	88.7	88.2	-53.25	-4,601.6	335.4	820.8	671.3	149.47	5.491		
17,200.0	12,500.0	16,718.0	12,006.2	90.1	89.5	-53.31	-4,686.3	338.6	823.8	672.0	151.80	5.426		
17,300.0	12,500.0	16,858.8	12,011.8	91.5	91.5	-53.89	-4,826.8	346.2	825.1	669.5	155.62	5.302		
17,360.6	12,500.0	16,911.7	12,013.1	92.4	92.3	-53.99	-4,879.7	347.3	824.8	667.6	157.20	5.247		
17,400.0	12,500.0	16,950.7	12,012.7	93.0	92.9	-53.96	-4,918.7	347.3	824.9	666.7	158.14	5.216		
17,500.0	12,500.0	17,056.3	12,011.3	94.4	94.4	-53.82	-5,024.3	346.7	824.5	664.0	160.51	5.137		
17,600.0	12,500.0	17,161.8	12,010.5	95.9	96.0	-53.71	-5,129.7	345.7	823.6	660.7	162.91	5.056		
17,700.0	12,500.0	17,266.3	12,011.9	97.4	97.5	-53.74	-5,234.3	345.4	822.0	656.4	165.52	4.966		
17,800.0	12,500.0	17,359.3	12,011.3	98.8	98.9	-53.61	-5,327.2	343.8	820.4	652.6	167.80	4.889		
17,900.0	12,500.0	17,460.6	12,006.6	100.3	100.4	-53.17	-5,428.4	340.2	819.7	650.0	169.67	4.831		
18,000.0	12,500.0	17,600.9	12,003.7	101.8	102.5	-52.67	-5,568.4	333.3	816.5	644.9	171.62	4.758		
18,100.0	12,500.0	17,660.0	12,002.8	103.3	103.4	-52.51	-5,627.4	331.2	813.6	639.9	173.68	4.685		
18,200.0	12,500.0	17,754.2	12,003.3	104.8	104.8	-52.55	-5,721.6	332.2	813.4	637.2	176.22	4.616		
18,229.4	12,500.0	17,784.8	12,003.9	105.2	105.3	-52.59	-5,752.2	332.7	813.3	636.3	177.06	4.593		
18,300.0	12,500.0	17,841.0	12,005.2	106.3	106.1	-52.73	-5,808.4	334.5	813.8	634.8	178.92	4.548		
18,400.0	12,500.0	17,928.7	12,007.6	107.8	107.5	-53.04	-5,895.9	339.5	815.9	634.1	181.84	4.487		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #224H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 174-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		
18,500.0	12,500.0	18,024.9	12,010.1	109.3	108.9	-53.43	-5,991.9	346.0	819.2	634.2	185.00	4.428		
18,600.0	12,500.0	18,133.3	12,011.6	110.8	110.6	-53.72	-6,100.1	351.9	822.2	633.9	188.24	4.368		
18,700.0	12,500.0	18,221.4	12,010.2	112.3	112.0	-53.73	-6,188.2	354.6	825.0	634.3	190.66	4.327		
18,800.0	12,500.0	18,310.0	12,006.6	113.9	113.3	-53.61	-6,276.6	357.5	829.5	636.6	192.87	4.301		
18,900.0	12,500.0	18,400.8	12,002.0	115.4	114.7	-53.49	-6,367.2	361.2	835.2	640.1	195.06	4.282		
19,000.0	12,500.0	18,534.6	11,996.8	116.9	116.8	-53.38	-6,500.8	366.6	840.3	642.2	198.13	4.241		
19,100.0	12,500.0	18,641.2	11,995.5	118.4	118.5	-53.36	-6,607.4	368.8	842.1	641.3	200.82	4.194		
19,200.0	12,500.0	18,738.3	11,997.1	120.0	120.0	-53.56	-6,704.4	372.3	843.4	639.7	203.77	4.139		
19,300.0	12,500.0	18,826.6	11,995.3	121.5	121.3	-53.53	-6,792.6	374.6	846.2	640.0	206.17	4.104		
19,400.0	12,500.0	18,923.0	11,994.3	123.0	122.8	-53.56	-6,889.0	377.3	848.4	639.6	208.79	4.063		
19,500.0	12,500.0	18,973.2	11,994.1	124.6	123.6	-53.70	-6,939.0	381.5	854.9	644.3	210.52	4.061		
19,600.0	12,500.0	19,064.5	11,992.8	126.1	125.1	-54.09	-7,029.4	393.8	865.8	652.2	213.66	4.052		
19,700.0	12,500.0	19,224.3	11,993.9	127.7	127.6	-54.72	-7,188.4	410.0	873.4	654.3	219.04	3.987		
19,800.0	12,500.0	19,345.0	11,995.8	129.2	129.5	-54.95	-7,308.9	414.2	874.4	651.9	222.49	3.930		
19,900.0	12,500.0	19,420.7	11,994.7	130.8	130.7	-54.93	-7,384.6	416.0	876.6	651.9	224.77	3.900		
20,000.0	12,500.0	19,499.3	11,996.2	132.3	131.9	-55.25	-7,462.9	423.0	882.2	654.5	227.62	3.876		
20,100.0	12,500.0	19,614.2	11,995.3	133.9	133.7	-55.48	-7,577.5	431.4	888.0	656.9	231.14	3.842		
20,200.0	12,500.0	19,758.9	11,990.9	135.5	136.0	-55.28	-7,722.1	433.4	890.3	656.2	234.15	3.803		
20,300.0	12,500.0	19,917.9	11,986.3	137.0	138.5	-54.66	-7,880.6	424.3	886.7	651.0	235.70	3.762		
20,400.0	12,500.0	20,027.1	11,986.0	138.6	140.1	-54.23	-7,989.4	414.3	878.8	641.4	237.43	3.701		
20,500.0	12,500.0	20,105.2	11,984.7	140.1	141.3	-53.87	-8,067.2	407.4	871.9	632.5	239.46	3.641		
20,600.0	12,500.0	20,196.0	11,988.0	141.7	142.7	-53.94	-8,157.8	405.1	867.1	624.8	242.29	3.579		
20,700.0	12,500.0	20,291.4	11,995.1	143.3	144.3	-54.32	-8,253.0	405.9	862.9	617.1	245.82	3.510		
20,800.0	12,500.0	20,384.0	12,002.0	144.9	145.7	-54.73	-8,345.3	407.5	859.3	609.9	249.40	3.446		
20,900.0	12,500.0	20,465.1	12,006.4	146.4	147.0	-55.00	-8,426.3	409.0	857.2	604.6	252.61	3.393		
20,932.8	12,500.0	20,490.5	12,007.6	147.0	147.4	-55.10	-8,451.6	410.0	857.0	603.4	253.64	3.379		
21,000.0	12,500.0	20,551.5	12,009.7	148.0	148.4	-55.28	-8,512.5	412.2	857.3	601.5	255.80	3.352		
21,100.0	12,500.0	20,654.5	12,009.6	149.6	150.0	-55.31	-8,615.5	413.9	858.1	599.5	258.65	3.318		
21,200.0	12,500.0	20,751.4	12,010.2	151.2	151.6	-55.37	-8,712.4	415.4	858.4	596.9	261.49	3.283		
21,300.0	12,500.0	20,844.7	12,010.3	152.7	153.0	-55.43	-8,805.7	417.5	859.6	595.3	264.27	3.253		
21,400.0	12,500.0	20,985.4	12,008.1	154.3	155.3	-55.24	-8,946.4	416.7	859.7	592.7	266.96	3.220		
21,500.0	12,500.0	21,078.7	12,010.2	155.9	156.7	-55.29	-9,039.6	415.9	857.0	587.2	269.80	3.177		
21,600.0	12,500.0	21,160.5	12,013.5	157.5	158.1	-55.51	-9,121.3	417.4	855.6	582.7	272.91	3.135		
21,700.0	12,500.0	21,263.3	12,018.7	159.1	159.7	-55.92	-9,223.9	421.4	855.4	578.7	276.66	3.092		
21,800.0	12,500.0	21,394.0	12,026.6	160.7	161.8	-56.38	-9,354.3	422.8	852.1	571.4	280.64	3.036		
21,900.0	12,500.0	21,486.8	12,031.8	162.3	163.3	-56.64	-9,447.0	422.6	848.2	564.1	284.02	2.986		
22,000.0	12,500.0	21,582.8	12,032.6	163.8	164.8	-56.58	-9,542.9	420.6	845.3	558.7	286.66	2.949		
22,100.0	12,500.0	21,693.9	12,037.8	165.4	166.6	-56.83	-9,654.0	420.3	841.9	551.9	290.06	2.903		
22,200.0	12,500.0	21,826.0	12,043.3	167.0	168.7	-56.94	-9,785.8	415.6	836.1	543.2	292.86	2.855		
22,300.0	12,500.0	21,924.2	12,045.0	168.6	170.2	-56.73	-9,883.7	408.2	828.2	533.0	295.15	2.806		
22,400.0	12,500.0	22,012.3	12,044.3	170.2	171.6	-56.38	-9,971.5	400.9	821.1	523.9	297.20	2.763		
22,500.0	12,500.0	22,106.8	12,042.7	171.8	173.1	-55.97	-10,065.7	393.7	815.0	516.0	299.03	2.726		
22,600.0	12,500.0	22,204.3	12,040.8	173.4	174.6	-55.54	-10,162.9	386.3	809.2	508.5	300.71	2.691		
22,700.0	12,500.0	22,274.7	12,039.7	175.0	175.7	-55.32	-10,233.2	382.9	805.6	502.7	302.92	2.659		
22,800.0	12,500.0	22,370.3	12,039.1	176.6	177.2	-55.22	-10,328.8	381.9	804.4	499.0	305.40	2.634		
22,896.1	12,500.0	22,456.6	12,039.1	178.1	178.6	-55.19	-10,415.1	381.8	803.7	495.9	307.88	2.611		
22,900.0	12,500.0	22,460.0	12,039.1	178.2	178.7	-55.19	-10,418.5	381.8	803.7	495.8	307.98	2.610		
23,000.0	12,500.0	22,545.6	12,038.6	179.8	180.0	-55.18	-10,504.1	383.1	804.7	494.2	310.51	2.591		
23,100.0	12,500.0	22,633.5	12,037.8	181.4	181.4	-55.23	-10,591.9	386.0	807.3	494.2	313.16	2.578		
23,200.0	12,500.0	22,779.7	12,035.9	183.0	183.8	-55.16	-10,738.0	388.3	809.2	492.7	316.41	2.557		
23,300.0	12,500.0	22,873.1	12,035.7	184.6	185.3	-55.09	-10,831.5	387.4	807.8	488.8	318.94	2.533		
23,400.0	12,500.0	22,976.0	12,036.3	186.2	186.9	-55.05	-10,934.4	386.4	806.0	484.4	321.63	2.506		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design		Voni - Voni Fed Com #224H - Wellbore #1 - Actual											Offset Site Error:		0.0 usft
Survey Program:		174-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			
23,500.0	12,500.0	23,076.3	12,036.5	187.8	188.6	-54.96	-11,034.6	384.8	804.0	479.9	324.16	2.480			
23,600.0	12,500.0	23,170.3	12,037.2	189.4	190.1	-54.95	-11,128.6	384.2	802.4	475.5	326.87	2.455			
23,700.0	12,500.0	23,264.3	12,038.8	191.0	191.6	-55.06	-11,222.6	385.3	801.7	471.8	329.91	2.430			
23,800.0	12,500.0	23,361.7	12,042.0	192.6	193.2	-55.32	-11,319.9	387.6	801.2	467.9	333.39	2.403			
23,808.8	12,500.0	23,369.5	12,042.3	192.8	193.3	-55.34	-11,327.7	387.9	801.2	467.6	333.68	2.401			
23,900.0	12,500.0	23,460.1	12,044.2	194.3	194.7	-55.52	-11,418.2	390.3	801.6	464.9	336.74	2.381			
24,000.0	12,500.0	23,561.9	12,043.8	195.9	196.4	-55.47	-11,520.1	390.3	801.2	461.8	339.40	2.361			
24,010.5	12,500.0	23,571.4	12,043.8	196.0	196.5	-55.46	-11,529.5	390.3	801.2	461.5	339.67	2.359			
24,100.0	12,500.0	23,652.2	12,043.8	197.5	197.8	-55.49	-11,610.4	391.5	801.7	459.5	342.12	2.343			
24,200.0	12,500.0	23,748.3	12,046.1	199.1	199.4	-55.76	-11,706.3	395.6	803.2	457.5	345.65	2.324			
24,300.0	12,500.0	23,845.8	12,046.9	200.7	201.0	-55.90	-11,803.8	398.7	804.7	455.9	348.84	2.307			
24,400.0	12,500.0	23,938.0	12,048.9	202.3	202.5	-56.17	-11,895.8	403.3	807.1	454.8	352.27	2.291			
24,500.0	12,500.0	24,030.3	12,051.7	203.9	204.0	-56.56	-11,987.9	409.6	810.5	454.4	356.03	2.276			
24,600.0	12,500.0	24,127.3	12,054.9	205.5	205.6	-57.01	-12,084.6	417.2	814.6	454.5	360.10	2.262			
24,700.0	12,500.0	24,220.0	12,058.3	207.1	207.1	-57.48	-12,176.8	425.0	819.0	454.9	364.08	2.250			
24,800.0	12,500.0	24,307.4	12,058.7	208.8	208.5	-57.74	-12,263.9	432.0	824.9	457.7	367.24	2.246			
24,811.6	12,500.0	24,318.2	12,058.6	208.9	208.7	-57.77	-12,274.7	432.9	825.7	458.1	367.62	2.246 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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #228H - 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		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.0	0.0	2.0	-2.0	0.0	0.0	89.57	0.2	30.0	30.0					
100.0	100.0	102.0	98.0	0.1	0.1	89.57	0.2	30.0	30.0	29.7	0.26	113.858		
200.0	200.0	202.0	198.0	0.5	0.5	89.57	0.2	30.0	30.0	29.0	0.98	30.598		
300.0	300.0	302.0	298.0	0.8	0.9	89.57	0.2	30.0	30.0	28.3	1.70	17.674		
400.0	400.0	402.0	398.0	1.2	1.2	89.57	0.2	30.0	30.0	27.6	2.41	12.426		
500.0	500.0	502.0	498.0	1.6	1.6	89.57	0.2	30.0	30.0	26.9	3.13	9.581		
600.0	600.0	602.0	598.0	1.9	1.9	89.57	0.2	30.0	30.0	26.2	3.85	7.796		
700.0	700.0	702.0	698.0	2.3	2.3	89.57	0.2	30.0	30.0	25.4	4.57	6.571		
800.0	800.0	802.0	798.0	2.6	2.6	89.57	0.2	30.0	30.0	24.7	5.28	5.679		
900.0	900.0	902.0	898.0	3.0	3.0	89.57	0.2	30.0	30.0	24.0	6.00	5.001		
1,000.0	1,000.0	1,002.0	998.0	3.4	3.4	89.57	0.2	30.0	30.0	23.3	6.72	4.467		
1,100.0	1,100.0	1,102.0	1,098.0	3.7	3.7	89.57	0.2	30.0	30.0	22.6	7.43	4.036		
1,200.0	1,200.0	1,202.0	1,198.0	4.1	4.1	89.57	0.2	30.0	30.0	21.8	8.15	3.681		
1,300.0	1,300.0	1,302.0	1,298.0	4.4	4.4	89.57	0.2	30.0	30.0	21.1	8.87	3.383		
1,400.0	1,400.0	1,402.0	1,398.0	4.8	4.8	89.57	0.2	30.0	30.0	20.4	9.58	3.130		
1,500.0	1,500.0	1,502.0	1,498.0	5.1	5.2	89.57	0.2	30.0	30.0	19.7	10.30	2.912		
1,600.0	1,600.0	1,602.0	1,598.0	5.5	5.5	89.57	0.2	30.0	30.0	19.0	11.02	2.723		
1,700.0	1,700.0	1,702.0	1,698.0	5.9	5.9	89.57	0.2	30.0	30.0	18.3	11.73	2.556		
1,800.0	1,800.0	1,802.0	1,798.0	6.2	6.2	89.57	0.2	30.0	30.0	17.5	12.45	2.409		
1,900.0	1,900.0	1,902.0	1,898.0	6.6	6.6	89.57	0.2	30.0	30.0	16.8	13.17	2.278		
2,000.0	2,000.0	2,002.0	1,998.0	6.9	6.9	89.57	0.2	30.0	30.0	16.1	13.89	2.160 CC, ES		
2,100.0	2,100.0	2,102.0	2,098.0	7.3	7.3	150.34	0.2	30.0	30.8	16.2	14.60	2.107 SF		
2,200.0	2,200.0	2,202.0	2,198.0	7.6	7.7	152.57	0.2	30.0	33.1	17.7	15.31	2.160		
2,300.0	2,299.9	2,302.1	2,297.9	8.0	8.0	155.67	0.2	30.0	37.0	21.0	16.02	2.309		
2,402.1	2,401.8	2,400.2	2,399.8	8.4	8.4	159.10	0.2	30.0	42.8	26.0	16.73	2.556		
2,500.0	2,499.4	2,502.6	2,497.4	8.7	8.7	161.95	0.2	30.0	49.2	31.8	17.44	2.823		
2,600.0	2,599.2	2,602.8	2,597.2	9.1	9.1	164.18	0.2	30.0	55.9	37.8	18.15	3.083		
2,700.0	2,698.9	2,703.1	2,696.9	9.4	9.5	165.92	0.2	30.0	62.7	43.9	18.86	3.326		
2,800.0	2,798.7	2,803.3	2,796.7	9.8	9.8	167.33	0.2	30.0	69.5	50.0	19.57	3.553		
2,900.0	2,898.4	2,903.6	2,896.4	10.1	10.2	168.48	0.2	30.0	76.4	56.1	20.29	3.766		
3,000.0	2,998.2	2,996.2	2,996.2	10.5	10.5	169.45	0.2	30.0	83.3	62.3	20.97	3.971		
3,100.0	3,098.0	3,094.5	3,094.5	10.9	10.9	170.23	0.0	30.7	91.0	69.3	21.66	4.200		
3,200.0	3,197.7	3,192.4	3,192.3	11.2	11.2	170.84	-0.8	33.1	100.4	78.1	22.33	4.495		
3,300.0	3,297.5	3,290.0	3,289.8	11.6	11.5	171.30	-2.0	37.0	111.5	88.5	23.00	4.849		
3,400.0	3,397.2	3,387.1	3,386.8	12.0	11.8	171.63	-3.8	42.4	124.3	100.7	23.65	5.256		
3,500.0	3,497.0	3,483.9	3,483.3	12.3	12.2	171.84	-6.1	49.4	138.8	114.5	24.30	5.712		
3,600.0	3,596.7	3,580.1	3,579.1	12.7	12.5	171.98	-8.9	57.9	154.9	130.0	24.94	6.213		
3,700.0	3,696.5	3,675.8	3,674.2	13.1	12.8	172.05	-12.1	67.8	172.7	147.1	25.57	6.756		
3,800.0	3,796.2	3,770.8	3,768.5	13.4	13.2	172.07	-15.8	79.2	192.1	165.9	26.19	7.337		
3,900.0	3,896.0	3,867.0	3,863.8	13.8	13.5	172.06	-20.0	92.0	213.0	186.1	26.84	7.936		
4,000.0	3,995.7	3,964.8	3,960.5	14.2	13.9	172.05	-24.3	105.3	234.0	206.5	27.52	8.502		
4,100.0	4,095.5	4,062.6	4,057.3	14.5	14.2	172.04	-28.7	118.5	255.0	226.8	28.21	9.040		
4,200.0	4,195.2	4,160.3	4,154.1	14.9	14.6	172.03	-33.0	131.7	276.1	247.2	28.90	9.552		
4,300.0	4,295.0	4,258.1	4,250.8	15.3	15.0	172.02	-37.3	144.9	297.1	267.5	29.59	10.039		
4,400.0	4,394.8	4,355.8	4,347.6	15.6	15.3	172.02	-41.6	158.2	318.1	287.8	30.29	10.504		
4,500.0	4,494.5	4,453.6	4,444.4	16.0	15.7	172.01	-45.9	171.4	339.2	308.2	30.98	10.948		
4,600.0	4,594.3	4,551.4	4,541.1	16.4	16.1	172.01	-50.2	184.6	360.2	328.5	31.68	11.371		
4,700.0	4,694.0	4,649.1	4,637.9	16.7	16.4	172.00	-54.5	197.8	381.2	348.9	32.37	11.776		
4,800.0	4,793.8	4,746.9	4,734.7	17.1	16.8	172.00	-58.9	211.1	402.3	369.2	33.07	12.164		
4,900.0	4,893.5	4,846.2	4,833.0	17.5	17.2	171.98	-63.2	224.5	423.2	389.5	33.79	12.525		
5,000.0	4,993.3	4,949.2	4,935.0	17.9	17.6	171.83	-66.2	237.9	443.4	408.8	34.56	12.828		
5,100.0	5,093.0	5,052.5	5,037.5	18.2	18.0	171.50	-67.6	250.9	462.3	427.0	35.33	13.087		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #228H - 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	5,192.8	5,156.2	5,140.5	18.6	18.4	171.03	-67.1	263.3	480.2	444.1	36.10	13.304		
5,300.0	5,292.5	5,260.2	5,243.7	19.0	18.8	170.42	-64.9	275.2	497.0	460.2	36.86	13.484		
5,400.0	5,392.3	5,362.2	5,345.1	19.3	19.2	169.70	-61.1	286.4	512.9	475.3	37.60	13.639		
5,500.0	5,492.0	5,460.8	5,443.0	19.7	19.5	169.03	-57.1	297.1	528.6	490.3	38.31	13.796		
5,600.0	5,591.8	5,559.4	5,540.9	20.1	19.9	168.39	-53.0	307.7	544.4	505.3	39.02	13.950		
5,700.0	5,691.6	5,657.9	5,638.8	20.4	20.3	167.79	-49.0	318.4	560.2	520.5	39.73	14.099		
5,800.0	5,791.3	5,756.5	5,736.7	20.8	20.7	167.22	-45.0	329.0	576.1	535.6	40.44	14.244		
5,900.0	5,891.1	5,855.1	5,834.6	21.2	21.0	166.68	-41.0	339.7	592.0	550.9	41.16	14.385		
6,000.0	5,990.8	5,953.6	5,932.5	21.6	21.4	166.17	-36.9	350.4	608.0	566.1	41.87	14.522		
6,100.0	6,090.6	6,052.2	6,030.5	21.9	21.8	165.68	-32.9	361.0	624.1	581.5	42.58	14.656		
6,200.0	6,190.3	6,150.8	6,128.4	22.3	22.2	165.22	-28.9	371.7	640.1	596.8	43.29	14.785		
6,300.0	6,290.1	6,249.4	6,226.3	22.7	22.6	164.79	-24.9	382.4	656.2	612.2	44.01	14.912		
6,400.0	6,389.8	6,347.9	6,324.2	23.0	22.9	164.37	-20.8	393.0	672.4	627.7	44.72	15.035		
6,500.0	6,489.6	6,446.5	6,422.1	23.4	23.3	163.97	-16.8	403.7	688.6	643.1	45.44	15.155		
6,600.0	6,589.3	6,545.1	6,520.0	23.8	23.7	163.59	-12.8	414.3	704.8	658.6	46.15	15.271		
6,700.0	6,689.1	6,643.6	6,617.9	24.2	24.1	163.23	-8.8	425.0	721.0	674.2	46.87	15.385		
6,800.0	6,788.8	6,742.2	6,715.8	24.5	24.5	162.89	-4.7	435.7	737.3	689.7	47.58	15.495		
6,900.0	6,888.6	6,840.8	6,813.7	24.9	24.8	162.56	-0.7	446.3	753.6	705.3	48.30	15.603		
7,000.0	6,988.4	6,939.4	6,911.7	25.3	25.2	162.24	3.3	457.0	769.9	720.9	49.02	15.708		
7,100.0	7,088.1	7,037.9	7,009.6	25.7	25.6	161.94	7.3	467.7	786.3	736.5	49.73	15.810		
7,200.0	7,187.9	7,136.5	7,107.5	26.0	26.0	161.64	11.4	478.3	802.6	752.2	50.45	15.909		
7,300.0	7,287.6	7,235.1	7,205.4	26.4	26.4	161.36	15.4	489.0	819.0	767.8	51.17	16.007		
7,400.0	7,387.4	7,333.6	7,303.3	26.8	26.8	161.10	19.4	499.7	835.4	783.5	51.89	16.101		
7,500.0	7,487.1	7,432.2	7,401.2	27.1	27.1	160.84	23.4	510.3	851.8	799.2	52.60	16.193		
7,600.0	7,586.9	7,530.8	7,499.1	27.5	27.5	160.59	27.5	521.0	868.3	814.9	53.32	16.284		
7,700.0	7,686.6	7,629.4	7,597.0	27.9	27.9	160.35	31.5	531.6	884.7	830.7	54.04	16.372		
7,800.0	7,786.4	7,727.9	7,694.9	28.3	28.3	160.12	35.5	542.3	901.2	846.4	54.76	16.457		
7,900.0	7,886.1	7,826.5	7,792.8	28.6	28.7	159.90	39.5	553.0	917.7	862.2	55.48	16.541		
7,973.2	7,959.2	7,901.3	7,864.5	28.9	29.0	159.74	42.5	560.8	929.7	873.7	56.01	16.598		
8,000.0	7,985.9	7,925.1	7,890.8	29.0	29.1	159.70	43.6	563.6	934.1	877.9	56.20	16.621		
8,100.0	8,085.8	8,023.9	7,988.9	29.4	29.5	159.53	47.6	574.3	948.7	891.8	56.92	16.669		
8,200.0	8,185.7	8,123.1	8,087.4	29.7	29.8	159.30	51.6	585.0	960.9	903.3	57.63	16.673		
8,241.3	8,227.0	8,164.0	8,128.1	29.9	30.0	99.23	53.3	589.5	965.3	907.3	57.93	16.664		
8,300.0	8,285.7	8,222.4	8,186.0	30.1	30.2	99.03	55.7	595.8	971.2	912.8	58.35	16.645		
8,400.0	8,385.7	8,321.7	8,284.7	30.4	30.6	98.70	59.8	606.5	981.3	922.2	59.06	16.615		
8,500.0	8,485.7	8,421.0	8,383.4	30.8	31.0	98.37	63.8	617.3	991.4	931.6	59.77	16.586		
8,600.0	8,585.7	8,520.4	8,482.0	31.1	31.4	98.05	67.9	628.0	1,001.5	941.0	60.49	16.558		
8,700.0	8,685.7	8,619.7	8,580.7	31.5	31.8	97.74	71.9	638.8	1,011.7	950.5	61.20	16.531		
8,800.0	8,785.7	8,719.0	8,679.4	31.8	32.2	97.43	76.0	649.5	1,021.9	960.0	61.91	16.505		
8,900.0	8,885.7	8,818.3	8,778.0	32.2	32.6	97.13	80.0	660.3	1,032.1	969.5	62.63	16.480		
9,000.0	8,985.7	8,917.7	8,876.7	32.5	33.0	96.83	84.1	671.0	1,042.4	979.0	63.34	16.457		
9,100.0	9,085.7	9,017.0	8,975.4	32.8	33.4	96.54	88.1	681.7	1,052.6	988.6	64.05	16.434		
9,200.0	9,185.7	9,116.3	9,074.0	33.2	33.8	96.25	92.2	692.5	1,062.9	998.2	64.77	16.411		
9,300.0	9,285.7	9,215.7	9,172.7	33.5	34.1	95.98	96.3	703.2	1,073.3	1,007.8	65.48	16.390		
9,400.0	9,385.7	9,315.0	9,271.3	33.9	34.5	95.70	100.3	714.0	1,083.6	1,017.4	66.20	16.370		
9,500.0	9,485.7	9,414.3	9,370.0	34.2	34.9	95.43	104.4	724.7	1,094.0	1,027.1	66.91	16.350		
9,600.0	9,585.7	9,513.6	9,468.7	34.6	35.3	95.17	108.4	735.5	1,104.4	1,036.8	67.63	16.331		
9,700.0	9,685.7	9,613.0	9,567.3	34.9	35.7	94.91	112.5	746.2	1,114.9	1,046.5	68.34	16.313		
9,800.0	9,785.7	9,712.3	9,666.0	35.3	36.1	94.66	116.5	757.0	1,125.3	1,056.3	69.06	16.295		
9,900.0	9,885.7	9,811.6	9,764.7	35.6	36.5	94.41	120.6	767.7	1,135.8	1,066.0	69.77	16.278		
10,000.0	9,985.7	9,911.0	9,863.3	36.0	36.9	94.16	124.6	778.4	1,146.3	1,075.8	70.49	16.262		
10,100.0	10,085.7	10,010.3	9,962.0	36.3	37.3	93.92	128.7	789.2	1,156.8	1,085.6	71.21	16.246		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #228H - Wellbore #1 - BLM Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.0	10,185.7	10,109.6	10,060.6	36.7	37.7	93.69	132.8	799.9	1,167.3	1,095.4	71.92	16.231		
10,300.0	10,285.7	10,208.9	10,159.3	37.0	38.1	93.45	136.8	810.7	1,177.9	1,105.3	72.64	16.216		
10,400.0	10,385.7	10,308.3	10,258.0	37.4	38.5	93.23	140.9	821.4	1,188.5	1,115.1	73.35	16.202		
10,500.0	10,485.7	10,407.6	10,356.6	37.7	38.9	93.00	144.9	832.2	1,199.1	1,125.0	74.07	16.188		
10,600.0	10,585.7	10,506.9	10,455.3	38.1	39.2	92.78	149.0	842.9	1,209.7	1,134.9	74.79	16.175		
10,700.0	10,685.7	10,606.3	10,554.0	38.4	39.6	92.57	153.0	853.7	1,220.3	1,144.8	75.50	16.162		
10,800.0	10,785.7	10,705.6	10,652.6	38.8	40.0	92.36	157.1	864.4	1,230.9	1,154.7	76.22	16.150		
10,900.0	10,885.7	10,804.9	10,751.3	39.1	40.4	92.15	161.1	875.2	1,241.6	1,164.7	76.94	16.138		
11,000.0	10,985.7	10,904.3	10,850.0	39.5	40.8	91.94	165.2	885.9	1,252.3	1,174.6	77.65	16.127		
11,100.0	11,085.7	11,003.6	10,948.6	39.8	41.2	91.74	169.3	896.6	1,263.0	1,184.6	78.37	16.115		
11,200.0	11,185.7	11,102.9	11,047.3	40.2	41.6	91.54	173.3	907.4	1,273.7	1,194.6	79.09	16.105		
11,300.0	11,285.7	11,202.2	11,145.9	40.5	42.0	91.35	177.4	918.1	1,284.4	1,204.6	79.80	16.094		
11,400.0	11,385.7	11,301.6	11,244.6	40.9	42.4	91.16	181.4	928.9	1,295.1	1,214.6	80.52	16.084		
11,500.0	11,485.7	11,418.4	11,360.7	41.2	42.9	90.94	186.0	941.0	1,305.4	1,224.1	81.37	16.043		
11,600.0	11,585.7	11,544.9	11,486.7	41.6	43.3	90.76	190.0	951.6	1,313.8	1,231.6	82.27	15.970		
11,700.0	11,685.7	11,671.9	11,613.4	42.0	43.8	90.62	193.1	959.8	1,320.2	1,237.1	83.14	15.879		
11,800.0	11,785.7	11,799.2	11,740.5	42.3	44.3	90.53	195.1	965.2	1,324.5	1,240.5	83.98	15.772		
11,900.0	11,885.7	11,926.6	11,868.0	42.7	44.7	90.48	196.2	968.1	1,326.7	1,241.9	84.78	15.648		
11,941.3	11,927.0	11,979.3	11,920.6	42.8	44.9	90.48	196.4	968.5	1,327.0	1,241.9	85.10	15.593		
11,950.0	11,935.7	11,990.4	11,931.7	42.8	44.9	-89.09	196.4	968.5	1,327.0	1,241.9	85.17	15.581		
12,000.0	11,985.6	12,040.9	11,982.2	43.0	45.1	-89.16	194.9	968.5	1,327.0	1,241.5	85.50	15.521		
12,050.0	12,035.1	12,089.3	12,030.2	43.1	45.2	-89.22	189.4	968.6	1,327.0	1,241.2	85.81	15.465		
12,100.0	12,083.7	12,137.8	12,077.7	43.3	45.4	-89.30	179.8	968.7	1,327.0	1,240.9	86.10	15.412		
12,150.0	12,131.2	12,186.4	12,124.4	43.4	45.5	-89.38	166.2	968.8	1,327.0	1,240.6	86.38	15.362		
12,200.0	12,177.0	12,235.2	12,169.9	43.6	45.6	-89.46	148.7	968.9	1,327.0	1,240.3	86.65	15.314		
12,250.0	12,221.0	12,284.1	12,213.9	43.7	45.8	-89.55	127.2	969.1	1,327.0	1,240.0	86.91	15.268		
12,300.0	12,262.8	12,333.2	12,256.0	43.8	45.9	-89.64	102.0	969.3	1,326.9	1,239.8	87.16	15.224		
12,350.0	12,301.9	12,382.6	12,296.0	43.9	46.0	-89.74	73.2	969.5	1,326.9	1,239.5	87.40	15.183		
12,354.9	12,305.6	12,387.4	12,299.8	43.9	46.0	-89.75	70.1	969.5	1,326.9	1,239.5	87.42	15.179		
12,400.0	12,338.3	12,432.0	12,333.5	43.9	46.1	-89.84	40.8	969.7	1,326.9	1,239.3	87.63	15.142		
12,450.0	12,371.5	12,481.7	12,368.2	44.0	46.1	-89.94	5.3	970.0	1,327.0	1,239.1	87.86	15.103		
12,500.0	12,401.3	12,531.6	12,399.8	44.1	46.2	-90.04	-33.3	970.3	1,327.0	1,238.9	88.08	15.065		
12,550.0	12,427.5	12,581.7	12,428.0	44.1	46.3	-90.13	-74.7	970.7	1,327.0	1,238.7	88.31	15.026		
12,600.0	12,449.9	12,632.0	12,452.6	44.2	46.3	-90.23	-118.6	971.0	1,327.0	1,238.5	88.54	14.988		
12,650.0	12,468.3	12,682.5	12,473.3	44.3	46.4	-90.33	-164.6	971.4	1,327.0	1,238.3	88.76	14.950		
12,700.0	12,482.6	12,733.3	12,490.0	44.4	46.5	-90.42	-212.5	971.7	1,327.1	1,238.1	89.00	14.911		
12,750.0	12,492.7	12,784.2	12,502.4	44.5	46.6	-90.52	-261.8	972.1	1,327.1	1,237.9	89.23	14.872		
12,800.0	12,498.5	12,835.3	12,510.3	44.6	46.6	-90.60	-312.3	972.5	1,327.1	1,237.7	89.47	14.833		
12,841.3	12,500.0	12,877.6	12,513.5	44.7	46.7	-90.67	-354.5	972.9	1,327.2	1,237.5	89.67	14.801		
12,900.0	12,500.0	12,937.0	12,514.0	44.9	46.9	-90.69	-413.8	973.3	1,327.2	1,237.2	89.98	14.750		
13,000.0	12,500.0	13,037.0	12,514.0	45.2	47.2	-90.69	-513.8	974.1	1,327.2	1,236.6	90.58	14.652		
13,100.0	12,500.0	13,137.0	12,514.0	45.6	47.5	-90.69	-613.8	974.9	1,327.2	1,235.9	91.30	14.536		
13,200.0	12,500.0	13,237.0	12,514.0	46.0	47.9	-90.69	-713.8	975.7	1,327.3	1,235.1	92.14	14.405		
13,300.0	12,500.0	13,337.0	12,514.0	46.5	48.4	-90.69	-813.8	976.5	1,327.3	1,234.2	93.08	14.259		
13,400.0	12,500.0	13,437.0	12,514.0	47.0	48.9	-90.69	-913.8	977.3	1,327.3	1,233.2	94.13	14.101		
13,500.0	12,500.0	13,537.0	12,514.0	47.6	49.4	-90.69	-1,013.8	978.1	1,327.4	1,232.1	95.29	13.930		
13,600.0	12,500.0	13,637.0	12,514.0	48.2	50.0	-90.69	-1,113.8	978.9	1,327.4	1,230.9	96.54	13.750		
13,700.0	12,500.0	13,737.0	12,514.0	48.9	50.7	-90.69	-1,213.8	979.6	1,327.4	1,229.5	97.89	13.561		
13,800.0	12,500.0	13,837.0	12,514.0	49.6	51.4	-90.69	-1,313.8	980.4	1,327.5	1,228.1	99.33	13.364		
13,900.0	12,500.0	13,937.0	12,514.0	50.4	52.1	-90.69	-1,413.8	981.2	1,327.5	1,226.6	100.86	13.162		
14,000.0	12,500.0	14,037.0	12,514.0	51.2	52.9	-90.69	-1,513.8	982.0	1,327.5	1,225.1	102.47	12.955		
14,100.0	12,500.0	14,137.0	12,514.0	52.0	53.8	-90.69	-1,613.8	982.8	1,327.6	1,223.4	104.16	12.745		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #228H - 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	12,500.0	14,237.0	12,514.0	52.9	54.6	-90.69	-1,713.8	983.6	1,327.6	1,221.7	105.93	12.533		
14,300.0	12,500.0	14,337.0	12,514.0	53.8	55.5	-90.69	-1,813.8	984.4	1,327.6	1,219.9	107.77	12.319		
14,400.0	12,500.0	14,437.0	12,514.0	54.8	56.5	-90.69	-1,913.8	985.2	1,327.7	1,218.0	109.68	12.105		
14,500.0	12,500.0	14,537.0	12,514.0	55.8	57.4	-90.69	-2,013.8	986.0	1,327.7	1,216.0	111.65	11.891		
14,600.0	12,500.0	14,637.0	12,514.0	56.8	58.4	-90.69	-2,113.8	986.7	1,327.7	1,214.0	113.69	11.678		
14,700.0	12,500.0	14,737.0	12,514.0	57.8	59.4	-90.69	-2,213.8	987.5	1,327.7	1,212.0	115.79	11.467		
14,800.0	12,500.0	14,837.0	12,514.0	58.9	60.5	-90.69	-2,313.8	988.3	1,327.8	1,209.8	117.94	11.259		
14,900.0	12,500.0	14,937.0	12,514.0	60.0	61.6	-90.69	-2,413.8	989.1	1,327.8	1,207.7	120.14	11.052		
15,000.0	12,500.0	15,037.0	12,514.0	61.1	62.7	-90.69	-2,513.8	989.9	1,327.8	1,205.5	122.39	10.849		
15,100.0	12,500.0	15,137.0	12,514.0	62.3	63.8	-90.69	-2,613.8	990.7	1,327.9	1,203.2	124.69	10.649		
15,200.0	12,500.0	15,237.0	12,514.0	63.5	65.0	-90.69	-2,713.8	991.5	1,327.9	1,200.9	127.03	10.453		
15,300.0	12,500.0	15,337.0	12,514.0	64.7	66.1	-90.69	-2,813.8	992.3	1,327.9	1,198.5	129.42	10.261		
15,400.0	12,500.0	15,437.0	12,514.0	65.9	67.3	-90.69	-2,913.8	993.0	1,328.0	1,196.1	131.84	10.072		
15,500.0	12,500.0	15,537.0	12,514.0	67.1	68.5	-90.69	-3,013.7	993.8	1,328.0	1,193.7	134.31	9.888		
15,600.0	12,500.0	15,637.0	12,514.0	68.3	69.8	-90.69	-3,113.7	994.6	1,328.0	1,191.2	136.80	9.708		
15,700.0	12,500.0	15,737.0	12,514.0	69.6	71.0	-90.69	-3,213.7	995.4	1,328.1	1,188.7	139.34	9.531		
15,800.0	12,500.0	15,837.0	12,514.0	70.9	72.3	-90.69	-3,313.7	996.2	1,328.1	1,186.2	141.90	9.359		
15,900.0	12,500.0	15,937.0	12,514.0	72.2	73.6	-90.69	-3,413.7	997.0	1,328.1	1,183.6	144.49	9.192		
16,000.0	12,500.0	16,037.0	12,514.0	73.5	74.8	-90.69	-3,513.7	997.8	1,328.2	1,181.0	147.12	9.028		
16,100.0	12,500.0	16,137.0	12,514.0	74.8	76.2	-90.69	-3,613.7	998.6	1,328.2	1,178.4	149.76	8.869		
16,200.0	12,500.0	16,237.0	12,514.0	76.2	77.5	-90.69	-3,713.7	999.4	1,328.2	1,175.8	152.44	8.713		
16,300.0	12,500.0	16,337.0	12,514.0	77.5	78.8	-90.69	-3,813.7	1,000.1	1,328.3	1,173.1	155.14	8.562		
16,400.0	12,500.0	16,437.0	12,514.0	78.9	80.1	-90.69	-3,913.7	1,000.9	1,328.3	1,170.4	157.86	8.414		
16,500.0	12,500.0	16,537.0	12,514.0	80.2	81.5	-90.69	-4,013.7	1,001.7	1,328.3	1,167.7	160.60	8.271		
16,600.0	12,500.0	16,637.0	12,514.0	81.6	82.9	-90.69	-4,113.7	1,002.5	1,328.3	1,165.0	163.37	8.131		
16,700.0	12,500.0	16,737.0	12,514.0	83.0	84.2	-90.69	-4,213.7	1,003.3	1,328.4	1,162.2	166.15	7.995		
16,800.0	12,500.0	16,837.0	12,514.0	84.4	85.6	-90.69	-4,313.7	1,004.1	1,328.4	1,159.5	168.96	7.862		
16,900.0	12,500.0	16,937.0	12,514.0	85.8	87.0	-90.69	-4,413.7	1,004.9	1,328.4	1,156.7	171.78	7.733		
17,000.0	12,500.0	17,037.0	12,514.0	87.2	88.4	-90.69	-4,513.7	1,005.7	1,328.5	1,153.9	174.62	7.608		
17,100.0	12,500.0	17,137.0	12,514.0	88.7	89.8	-90.69	-4,613.7	1,006.5	1,328.5	1,151.0	177.47	7.486		
17,200.0	12,500.0	17,237.0	12,514.0	90.1	91.3	-90.69	-4,713.7	1,007.2	1,328.5	1,148.2	180.34	7.367		
17,300.0	12,500.0	17,337.0	12,514.0	91.5	92.7	-90.69	-4,813.7	1,008.0	1,328.6	1,145.3	183.23	7.251		
17,400.0	12,500.0	17,437.0	12,514.0	93.0	94.1	-90.69	-4,913.7	1,008.8	1,328.6	1,142.5	186.12	7.138		
17,500.0	12,500.0	17,537.0	12,514.0	94.4	95.6	-90.69	-5,013.7	1,009.6	1,328.6	1,139.6	189.04	7.029		
17,600.0	12,500.0	17,637.0	12,514.0	95.9	97.0	-90.69	-5,113.7	1,010.4	1,328.7	1,136.7	191.96	6.922		
17,700.0	12,500.0	17,737.0	12,514.0	97.4	98.5	-90.69	-5,213.7	1,011.2	1,328.7	1,133.8	194.90	6.817		
17,800.0	12,500.0	17,837.0	12,514.0	98.8	99.9	-90.69	-5,313.7	1,012.0	1,328.7	1,130.9	197.84	6.716		
17,900.0	12,500.0	17,937.0	12,514.0	100.3	101.4	-90.69	-5,413.7	1,012.8	1,328.8	1,128.0	200.80	6.617		
18,000.0	12,500.0	18,037.0	12,514.0	101.8	102.9	-90.69	-5,513.7	1,013.6	1,328.8	1,125.0	203.77	6.521		
18,100.0	12,500.0	18,137.0	12,514.0	103.3	104.4	-90.69	-5,613.7	1,014.3	1,328.8	1,122.1	206.75	6.427		
18,200.0	12,500.0	18,237.0	12,514.0	104.8	105.8	-90.69	-5,713.7	1,015.1	1,328.9	1,119.1	209.74	6.336		
18,300.0	12,500.0	18,337.0	12,514.0	106.3	107.3	-90.69	-5,813.7	1,015.9	1,328.9	1,116.1	212.74	6.246		
18,400.0	12,500.0	18,437.0	12,514.0	107.8	108.8	-90.69	-5,913.7	1,016.7	1,328.9	1,113.2	215.75	6.160		
18,500.0	12,500.0	18,537.0	12,514.0	109.3	110.3	-90.69	-6,013.7	1,017.5	1,328.9	1,110.2	218.77	6.075		
18,600.0	12,500.0	18,637.0	12,514.0	110.8	111.8	-90.69	-6,113.7	1,018.3	1,329.0	1,107.2	221.79	5.992		
18,700.0	12,500.0	18,737.0	12,514.0	112.3	113.3	-90.69	-6,213.6	1,019.1	1,329.0	1,104.2	224.82	5.911		
18,800.0	12,500.0	18,837.0	12,514.0	113.9	114.8	-90.69	-6,313.6	1,019.9	1,329.0	1,101.2	227.86	5.833		
18,900.0	12,500.0	18,937.0	12,514.0	115.4	116.4	-90.69	-6,413.6	1,020.6	1,329.1	1,098.2	230.91	5.756		
19,000.0	12,500.0	19,037.0	12,514.0	116.9	117.9	-90.69	-6,513.6	1,021.4	1,329.1	1,095.1	233.97	5.681		
19,100.0	12,500.0	19,137.0	12,514.0	118.4	119.4	-90.69	-6,613.6	1,022.2	1,329.1	1,092.1	237.03	5.608		
19,200.0	12,500.0	19,237.0	12,514.0	120.0	120.9	-90.69	-6,713.6	1,023.0	1,329.2	1,089.1	240.10	5.536		
19,300.0	12,500.0	19,337.0	12,514.0	121.5	122.4	-90.69	-6,813.6	1,023.8	1,329.2	1,086.0	243.17	5.466		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Voni - Voni Fed Com #228H - Wellbore #1 - BLM Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,400.0	12,500.0	19,437.0	12,514.0	123.0	124.0	-90.69	-6,913.6	1,024.6	1,329.2	1,083.0	246.25	5.398		
19,500.0	12,500.0	19,537.0	12,514.0	124.6	125.5	-90.69	-7,013.6	1,025.4	1,329.3	1,079.9	249.34	5.331		
19,600.0	12,500.0	19,637.0	12,514.0	126.1	127.0	-90.69	-7,113.6	1,026.2	1,329.3	1,076.9	252.43	5.266		
19,700.0	12,500.0	19,737.0	12,514.0	127.7	128.6	-90.69	-7,213.6	1,027.0	1,329.3	1,073.8	255.52	5.202		
19,800.0	12,500.0	19,837.0	12,514.0	129.2	130.1	-90.69	-7,313.6	1,027.7	1,329.4	1,070.7	258.62	5.140		
19,900.0	12,500.0	19,937.0	12,514.0	130.8	131.7	-90.69	-7,413.6	1,028.5	1,329.4	1,067.7	261.73	5.079		
20,000.0	12,500.0	20,037.0	12,514.0	132.3	133.2	-90.69	-7,513.6	1,029.3	1,329.4	1,064.6	264.84	5.020		
20,100.0	12,500.0	20,137.0	12,514.0	133.9	134.8	-90.69	-7,613.6	1,030.1	1,329.5	1,061.5	267.96	4.961		
20,200.0	12,500.0	20,237.0	12,514.0	135.5	136.3	-90.69	-7,713.6	1,030.9	1,329.5	1,058.4	271.08	4.904		
20,300.0	12,500.0	20,337.0	12,514.0	137.0	137.9	-90.69	-7,813.6	1,031.7	1,329.5	1,055.3	274.20	4.849		
20,400.0	12,500.0	20,437.0	12,514.0	138.6	139.4	-90.69	-7,913.6	1,032.5	1,329.5	1,052.2	277.33	4.794		
20,500.0	12,500.0	20,537.0	12,514.0	140.1	141.0	-90.69	-8,013.6	1,033.3	1,329.6	1,049.1	280.47	4.741		
20,600.0	12,500.0	20,637.0	12,514.0	141.7	142.6	-90.69	-8,113.6	1,034.1	1,329.6	1,046.0	283.60	4.688		
20,700.0	12,500.0	20,737.0	12,514.0	143.3	144.1	-90.69	-8,213.6	1,034.8	1,329.6	1,042.9	286.74	4.637		
20,800.0	12,500.0	20,837.0	12,514.0	144.9	145.7	-90.69	-8,313.6	1,035.6	1,329.7	1,039.8	289.89	4.587		
20,900.0	12,500.0	20,937.0	12,514.0	146.4	147.3	-90.69	-8,413.6	1,036.4	1,329.7	1,036.7	293.04	4.538		
21,000.0	12,500.0	21,037.0	12,514.0	148.0	148.8	-90.69	-8,513.6	1,037.2	1,329.7	1,033.6	296.19	4.490		
21,100.0	12,500.0	21,137.0	12,514.0	149.6	150.4	-90.69	-8,613.6	1,038.0	1,329.8	1,030.4	299.34	4.442		
21,200.0	12,500.0	21,237.0	12,514.0	151.2	152.0	-90.69	-8,713.6	1,038.8	1,329.8	1,027.3	302.50	4.396		
21,300.0	12,500.0	21,337.0	12,514.0	152.7	153.6	-90.69	-8,813.6	1,039.6	1,329.8	1,024.2	305.66	4.351		
21,400.0	12,500.0	21,437.0	12,514.0	154.3	155.1	-90.69	-8,913.6	1,040.4	1,329.9	1,021.0	308.83	4.306		
21,500.0	12,500.0	21,537.0	12,514.0	155.9	156.7	-90.69	-9,013.6	1,041.2	1,329.9	1,017.9	311.99	4.263		
21,600.0	12,500.0	21,637.0	12,514.0	157.5	158.3	-90.69	-9,113.6	1,041.9	1,329.9	1,014.8	315.16	4.220		
21,700.0	12,500.0	21,737.0	12,514.0	159.1	159.9	-90.69	-9,213.6	1,042.7	1,330.0	1,011.6	318.33	4.178		
21,800.0	12,500.0	21,837.0	12,514.0	160.7	161.4	-90.69	-9,313.6	1,043.5	1,330.0	1,008.5	321.51	4.137		
21,900.0	12,500.0	21,937.0	12,514.0	162.3	163.0	-90.69	-9,413.5	1,044.3	1,330.0	1,005.3	324.69	4.096		
22,000.0	12,500.0	22,037.0	12,514.0	163.8	164.6	-90.69	-9,513.5	1,045.1	1,330.1	1,002.2	327.87	4.057		
22,100.0	12,500.0	22,137.0	12,514.0	165.4	166.2	-90.69	-9,613.5	1,045.9	1,330.1	999.0	331.05	4.018		
22,200.0	12,500.0	22,237.0	12,514.0	167.0	167.8	-90.69	-9,713.5	1,046.7	1,330.1	995.9	334.24	3.980		
22,300.0	12,500.0	22,337.0	12,514.0	168.6	169.4	-90.69	-9,813.5	1,047.5	1,330.2	992.7	337.42	3.942		
22,400.0	12,500.0	22,437.0	12,514.0	170.2	171.0	-90.69	-9,913.5	1,048.2	1,330.2	989.6	340.61	3.905		
22,500.0	12,500.0	22,537.0	12,514.0	171.8	172.6	-90.69	-10,013.5	1,049.0	1,330.2	986.4	343.80	3.869		
22,600.0	12,500.0	22,637.0	12,514.0	173.4	174.2	-90.69	-10,113.5	1,049.8	1,330.2	983.2	347.00	3.834		
22,700.0	12,500.0	22,737.0	12,514.0	175.0	175.7	-90.69	-10,213.5	1,050.6	1,330.3	980.1	350.19	3.799		
22,800.0	12,500.0	22,837.0	12,514.0	176.6	177.3	-90.69	-10,313.5	1,051.4	1,330.3	976.9	353.39	3.764		
22,900.0	12,500.0	22,937.0	12,514.0	178.2	178.9	-90.69	-10,413.5	1,052.2	1,330.3	973.7	356.59	3.731		
23,000.0	12,500.0	23,037.0	12,514.0	179.8	180.5	-90.69	-10,513.5	1,053.0	1,330.4	970.6	359.79	3.698		
23,100.0	12,500.0	23,137.0	12,514.0	181.4	182.1	-90.69	-10,613.5	1,053.8	1,330.4	967.4	363.00	3.665		
23,200.0	12,500.0	23,237.0	12,514.0	183.0	183.7	-90.69	-10,713.5	1,054.6	1,330.4	964.2	366.20	3.633		
23,300.0	12,500.0	23,337.0	12,514.0	184.6	185.3	-90.69	-10,813.5	1,055.3	1,330.5	961.1	369.41	3.602		
23,400.0	12,500.0	23,437.0	12,514.0	186.2	186.9	-90.69	-10,913.5	1,056.1	1,330.5	957.9	372.62	3.571		
23,500.0	12,500.0	23,537.0	12,514.0	187.8	188.5	-90.69	-11,013.5	1,056.9	1,330.5	954.7	375.83	3.540		
23,600.0	12,500.0	23,637.0	12,514.0	189.4	190.1	-90.69	-11,113.5	1,057.7	1,330.6	951.5	379.04	3.510		
23,700.0	12,500.0	23,737.0	12,514.0	191.0	191.7	-90.69	-11,213.5	1,058.5	1,330.6	948.3	382.26	3.481		
23,800.0	12,500.0	23,837.0	12,514.0	192.6	193.3	-90.69	-11,313.5	1,059.3	1,330.6	945.2	385.47	3.452		
23,900.0	12,500.0	23,937.0	12,514.0	194.3	194.9	-90.69	-11,413.5	1,060.1	1,330.7	942.0	388.69	3.423		
24,000.0	12,500.0	24,037.0	12,514.0	195.9	196.6	-90.69	-11,513.5	1,060.9	1,330.7	938.8	391.91	3.395		
24,100.0	12,500.0	24,137.0	12,514.0	197.5	198.2	-90.69	-11,613.5	1,061.7	1,330.7	935.6	395.13	3.368		
24,200.0	12,500.0	24,237.0	12,514.0	199.1	199.8	-90.69	-11,713.5	1,062.4	1,330.8	932.4	398.35	3.341		
24,300.0	12,500.0	24,337.0	12,514.0	200.7	201.4	-90.69	-11,813.5	1,063.2	1,330.8	929.2	401.57	3.314		
24,400.0	12,500.0	24,437.0	12,514.0	202.3	203.0	-90.69	-11,913.5	1,064.0	1,330.8	926.0	404.79	3.288		
24,500.0	12,500.0	24,537.0	12,514.0	203.9	204.6	-90.69	-12,013.5	1,064.8	1,330.8	922.8	408.02	3.262		

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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design		Voni - Voni Fed Com #228H - 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	
24,600.0	12,500.0	24,637.0	12,514.0	205.5	206.2	-90.69	-12,113.5	1,065.6	1,330.9	919.6	411.25	3.236	
24,700.0	12,500.0	24,737.0	12,514.0	207.1	207.8	-90.69	-12,213.5	1,066.4	1,330.9	916.4	414.47	3.211	
24,800.0	12,500.0	24,837.0	12,514.0	208.8	209.4	-90.69	-12,313.5	1,067.2	1,330.9	913.2	417.70	3.186	
24,811.6	12,500.0	24,848.5	12,514.0	208.9	209.6	-90.69	-12,325.0	1,067.3	1,330.9	912.9	418.08	3.184	

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3222.5usft

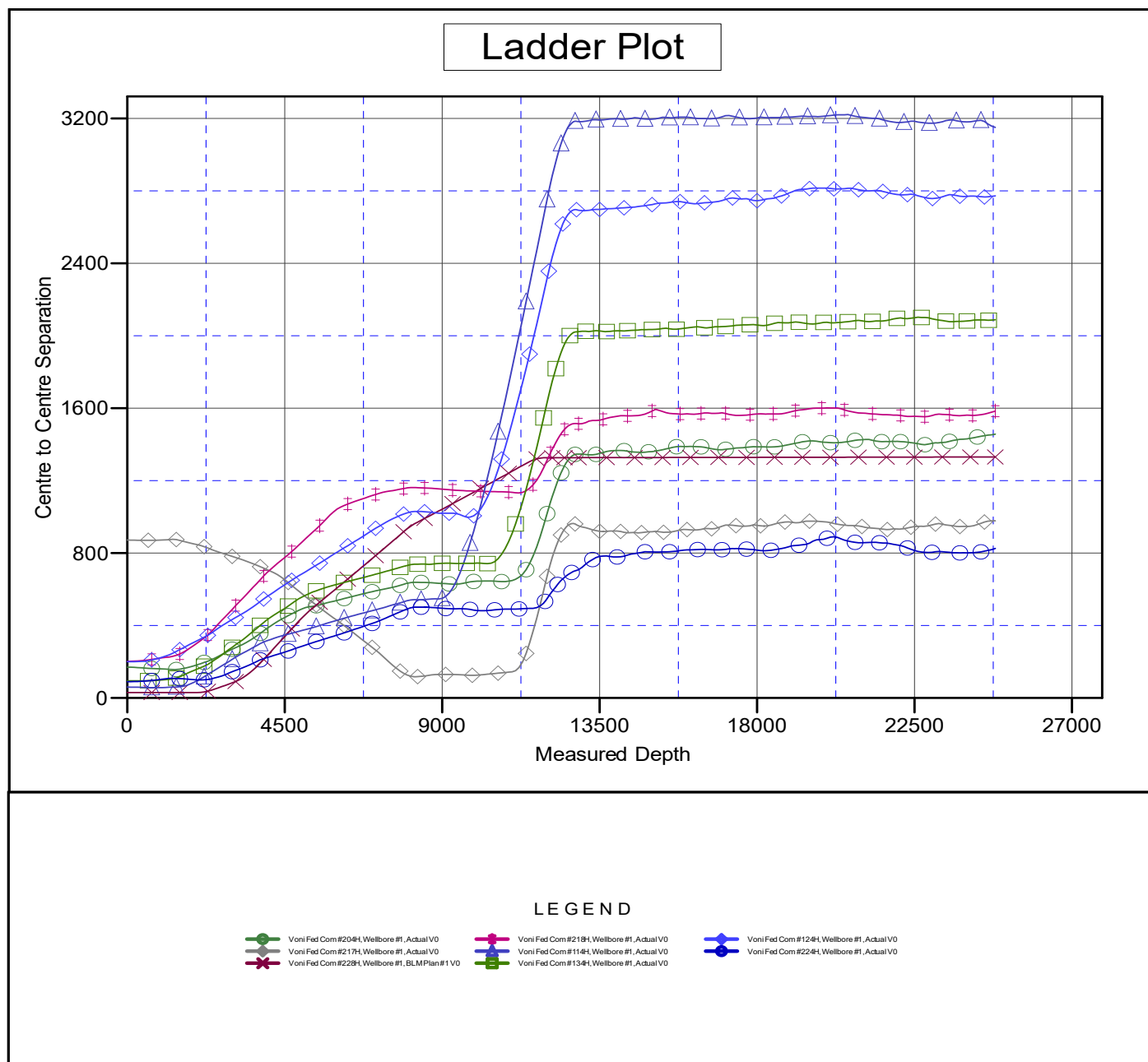
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Voni Fed Com #244H

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

Grid Convergence at Surface is: 0.29°



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 Voni Fed Com #244H
Project:	Rustler Breaks	TVD Reference:	KB @ 3222.5usft
Reference Site:	Voni	MD Reference:	KB @ 3222.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Voni Fed Com #244H	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 Single User Db
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3222.5usft

Offset Depths are relative to Offset Datum

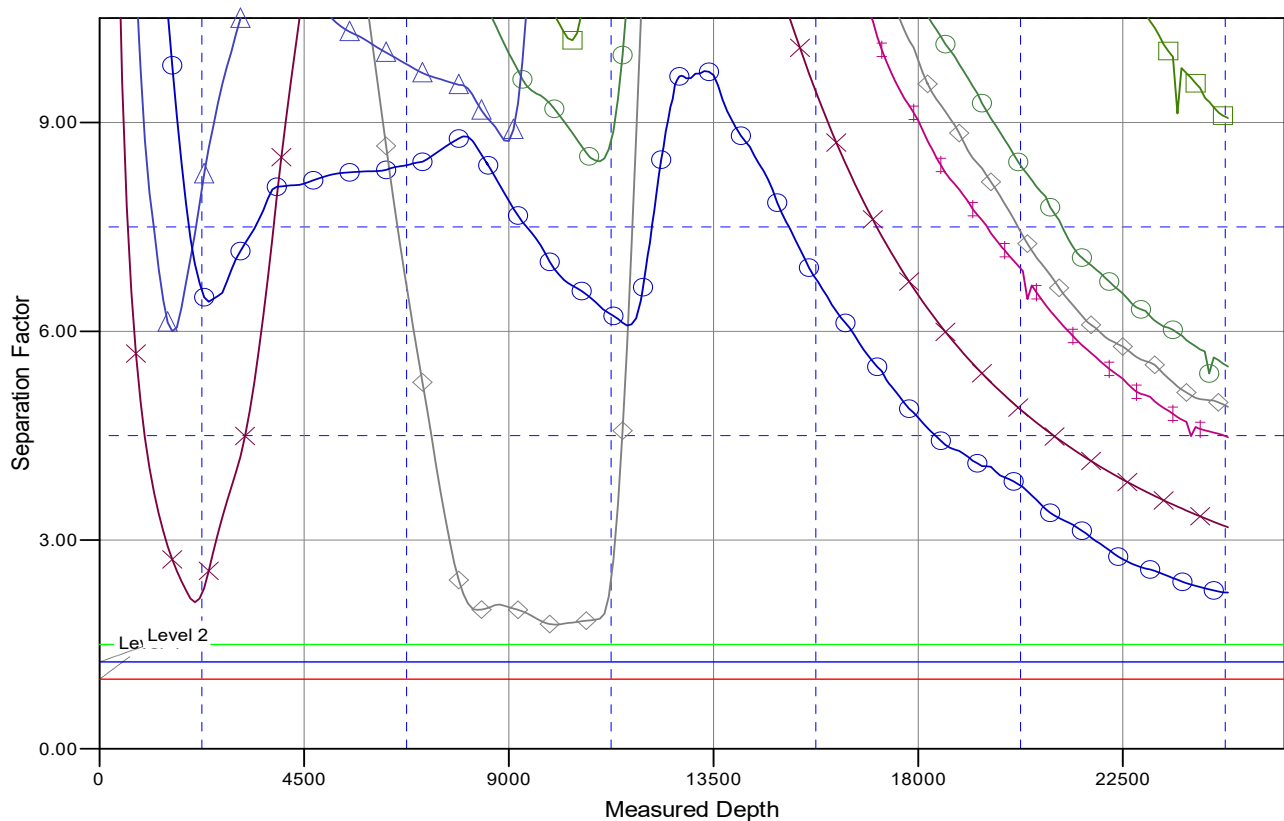
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Voni Fed Com #244H

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

Grid Convergence at Surface is: 0.29°

Separation Factor Plot



LEGEND

Voni Fed Com #204H, Wellbore #1, Actual V0	Voni Fed Com #217H, Wellbore #1, Actual V0	Voni Fed Com #124H, Wellbore #1, Actual V0
Voni Fed Com #228H, Wellbore #1, BLM Plan #1 V0	Voni Fed Com #114H, Wellbore #1, Actual V0	Voni Fed Com #224H, Wellbore #1, Actual V0
	Voni Fed Com #134H, Wellbore #1, Actual V0	

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

Matador Production Company

Rustler Breaks

Voni

Voni Fed Com #244H

Wellbore #1

Plan: BLM Plan #1

Standard Planning Report

19 April, 2022

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Voni Fed Com #244H
Company:	Matador Production Company	TVD Reference:	KB @ 3222.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3222.5usft
Site:	Voni	North Reference:	Grid
Well:	Voni Fed Com #244H	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	Voni					
Site Position:		Northing:	376,651.72 usft	Latitude:	32° 2' 3.721 N	
From:	Lat/Long	Easting:	668,298.64 usft	Longitude:	103° 47' 24.814 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.29 °

Well	Voni Fed Com #244H					
Well Position	+N/-S	112.9 usft	Northing:	376,764.62 usft	Latitude:	32° 2' 4.654 N
	+E/-W	3,668.1 usft	Easting:	671,966.48 usft	Longitude:	103° 46' 42.198 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,194.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/21/2020	6.75	59.82	47,539.41756956

Design		BLM Plan #1			
Audit Notes:					
Version:	1	Phase:	PROTOTYPE		Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)		+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0		0.0	0.0	179.53

Plan Survey Tool Program	Date	4/19/2022			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	24,811.6	BLM Plan #1 (Wellbore #1)	MWD	
			OWSG MWD - Standard		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,402.1	4.02	300.05	2,401.8	7.1	-12.2	1.00	1.00	0.00	300.05	
7,973.2	4.02	300.05	7,959.2	202.7	-350.3	0.00	0.00	0.00	0.00	
8,241.3	0.00	0.00	8,227.0	207.4	-358.5	1.50	-1.50	0.00	180.00	
11,941.3	0.00	0.00	11,927.0	207.4	-358.5	0.00	0.00	0.00	0.00	VP - Voni Fed Com #
12,841.3	90.00	179.57	12,500.0	-365.6	-354.2	10.00	10.00	19.95	179.57	
24,811.6	90.00	179.57	12,500.0	-12,335.5	-263.5	0.00	0.00	0.00	0.00	BHL - Voni Fed Com i

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Voni Fed Com #244H
Company:	Matador Production Company	TVD Reference:	KB @ 3222.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3222.5usft
Site:	Voni	North Reference:	Grid
Well:	Voni Fed Com #244H	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
893.6	0.00	0.00	893.6	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,574.6	0.00	0.00	1,574.6	0.0	0.0	0.0	0.00	0.00	0.00
Salado									
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
Start Build 1.00									
2,100.0	1.00	300.05	2,100.0	0.4	-0.8	-0.4	1.00	1.00	0.00
2,200.0	2.00	300.05	2,200.0	1.7	-3.0	-1.8	1.00	1.00	0.00
2,300.0	3.00	300.05	2,299.9	3.9	-6.8	-4.0	1.00	1.00	0.00
2,400.0	4.00	300.05	2,399.7	7.0	-12.1	-7.1	1.00	1.00	0.00
2,402.1	4.02	300.05	2,401.8	7.1	-12.2	-7.2	1.00	1.00	0.00
Start 5571.1 hold at 2402.1 MD									
2,500.0	4.02	300.05	2,499.4	10.5	-18.2	-10.6	0.00	0.00	0.00
2,600.0	4.02	300.05	2,599.2	14.0	-24.2	-14.2	0.00	0.00	0.00
2,700.0	4.02	300.05	2,698.9	17.5	-30.3	-17.8	0.00	0.00	0.00
2,800.0	4.02	300.05	2,798.7	21.0	-36.4	-21.3	0.00	0.00	0.00
2,900.0	4.02	300.05	2,898.4	24.5	-42.4	-24.9	0.00	0.00	0.00
3,000.0	4.02	300.05	2,998.2	28.1	-48.5	-28.5	0.00	0.00	0.00
3,100.0	4.02	300.05	3,098.0	31.6	-54.6	-32.0	0.00	0.00	0.00
3,200.0	4.02	300.05	3,197.7	35.1	-60.6	-35.6	0.00	0.00	0.00
3,300.0	4.02	300.05	3,297.5	38.6	-66.7	-39.1	0.00	0.00	0.00
3,400.0	4.02	300.05	3,397.2	42.1	-72.8	-42.7	0.00	0.00	0.00
3,500.0	4.02	300.05	3,497.0	45.6	-78.8	-46.3	0.00	0.00	0.00
3,600.0	4.02	300.05	3,596.7	49.1	-84.9	-49.8	0.00	0.00	0.00
3,700.0	4.02	300.05	3,696.5	52.6	-91.0	-53.4	0.00	0.00	0.00
3,800.0	4.02	300.05	3,796.2	56.1	-97.1	-56.9	0.00	0.00	0.00
3,900.0	4.02	300.05	3,896.0	59.7	-103.1	-60.5	0.00	0.00	0.00
4,000.0	4.02	300.05	3,995.7	63.2	-109.2	-64.1	0.00	0.00	0.00
4,029.6	4.02	300.05	4,025.3	64.2	-111.0	-65.1	0.00	0.00	0.00
Base Salt									
4,056.9	4.02	300.05	4,052.5	65.2	-112.6	-66.1	0.00	0.00	0.00
Bell Canyon									
4,100.0	4.02	300.05	4,095.5	66.7	-115.3	-67.6	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Voni Fed Com #244H
Company:	Matador Production Company	TVD Reference:	KB @ 3222.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3222.5usft
Site:	Voni	North Reference:	Grid
Well:	Voni Fed Com #244H	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)
4,200.0	4.02	300.05	4,195.2	70.2	-121.3	-71.2	0.00	0.00	0.00
4,300.0	4.02	300.05	4,295.0	73.7	-127.4	-74.7	0.00	0.00	0.00
4,400.0	4.02	300.05	4,394.8	77.2	-133.5	-78.3	0.00	0.00	0.00
4,500.0	4.02	300.05	4,494.5	80.7	-139.5	-81.9	0.00	0.00	0.00
4,600.0	4.02	300.05	4,594.3	84.2	-145.6	-85.4	0.00	0.00	0.00
4,700.0	4.02	300.05	4,694.0	87.7	-151.7	-89.0	0.00	0.00	0.00
4,800.0	4.02	300.05	4,793.8	91.3	-157.8	-92.5	0.00	0.00	0.00
4,900.0	4.02	300.05	4,893.5	94.8	-163.8	-96.1	0.00	0.00	0.00
5,000.0	4.02	300.05	4,993.3	98.3	-169.9	-99.7	0.00	0.00	0.00
5,100.0	4.02	300.05	5,093.0	101.8	-176.0	-103.2	0.00	0.00	0.00
5,149.7	4.02	300.05	5,142.6	103.5	-179.0	-105.0	0.00	0.00	0.00
Cherry Canyon									
5,200.0	4.02	300.05	5,192.8	105.3	-182.0	-106.8	0.00	0.00	0.00
5,300.0	4.02	300.05	5,292.5	108.8	-188.1	-110.4	0.00	0.00	0.00
5,400.0	4.02	300.05	5,392.3	112.3	-194.2	-113.9	0.00	0.00	0.00
5,500.0	4.02	300.05	5,492.0	115.8	-200.2	-117.5	0.00	0.00	0.00
5,600.0	4.02	300.05	5,591.8	119.3	-206.3	-121.0	0.00	0.00	0.00
5,700.0	4.02	300.05	5,691.6	122.9	-212.4	-124.6	0.00	0.00	0.00
5,800.0	4.02	300.05	5,791.3	126.4	-218.4	-128.2	0.00	0.00	0.00
5,900.0	4.02	300.05	5,891.1	129.9	-224.5	-131.7	0.00	0.00	0.00
6,000.0	4.02	300.05	5,990.8	133.4	-230.6	-135.3	0.00	0.00	0.00
6,100.0	4.02	300.05	6,090.6	136.9	-236.7	-138.8	0.00	0.00	0.00
6,200.0	4.02	300.05	6,190.3	140.4	-242.7	-142.4	0.00	0.00	0.00
6,300.0	4.02	300.05	6,290.1	143.9	-248.8	-146.0	0.00	0.00	0.00
6,301.9	4.02	300.05	6,292.0	144.0	-248.9	-146.0	0.00	0.00	0.00
Brushy Canyon									
6,400.0	4.02	300.05	6,389.8	147.4	-254.9	-149.5	0.00	0.00	0.00
6,500.0	4.02	300.05	6,489.6	150.9	-260.9	-153.1	0.00	0.00	0.00
6,600.0	4.02	300.05	6,589.3	154.5	-267.0	-156.6	0.00	0.00	0.00
6,700.0	4.02	300.05	6,689.1	158.0	-273.1	-160.2	0.00	0.00	0.00
6,800.0	4.02	300.05	6,788.8	161.5	-279.1	-163.8	0.00	0.00	0.00
6,900.0	4.02	300.05	6,888.6	165.0	-285.2	-167.3	0.00	0.00	0.00
7,000.0	4.02	300.05	6,988.4	168.5	-291.3	-170.9	0.00	0.00	0.00
7,100.0	4.02	300.05	7,088.1	172.0	-297.3	-174.4	0.00	0.00	0.00
7,200.0	4.02	300.05	7,187.9	175.5	-303.4	-178.0	0.00	0.00	0.00
7,300.0	4.02	300.05	7,287.6	179.0	-309.5	-181.6	0.00	0.00	0.00
7,400.0	4.02	300.05	7,387.4	182.5	-315.6	-185.1	0.00	0.00	0.00
7,400.7	4.02	300.05	7,388.1	182.6	-315.6	-185.2	0.00	0.00	0.00
L. Brushy Canyon									
7,500.0	4.02	300.05	7,487.1	186.1	-321.6	-188.7	0.00	0.00	0.00
7,600.0	4.02	300.05	7,586.9	189.6	-327.7	-192.3	0.00	0.00	0.00
7,700.0	4.02	300.05	7,686.6	193.1	-333.8	-195.8	0.00	0.00	0.00
7,800.0	4.02	300.05	7,786.4	196.6	-339.8	-199.4	0.00	0.00	0.00
7,900.0	4.02	300.05	7,886.1	200.1	-345.9	-202.9	0.00	0.00	0.00
7,958.3	4.02	300.05	7,944.3	202.2	-349.4	-205.0	0.00	0.00	0.00
BSGL									
7,973.2	4.02	300.05	7,959.2	202.7	-350.3	-205.5	0.00	0.00	0.00
Start Drop -1.50									
8,000.0	3.62	300.05	7,985.9	203.6	-351.9	-206.4	1.50	-1.50	0.00
8,100.0	2.12	300.05	8,085.8	206.1	-356.2	-209.0	1.50	-1.50	0.00
8,107.4	2.01	300.05	8,093.1	206.2	-356.5	-209.1	1.50	-1.50	0.00
Avalon-SS									
8,200.0	0.62	300.05	8,185.7	207.3	-358.3	-210.2	1.50	-1.50	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Voni Fed Com #244H
Company:	Matador Production Company	TVD Reference:	KB @ 3222.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3222.5usft
Site:	Voni	North Reference:	Grid
Well:	Voni Fed Com #244H	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)
8,241.3	0.00	0.00	8,227.0	207.4	-358.5	-210.3	1.50	-1.50	145.29
Start 3700.0 hold at 8241.3 MD									
8,300.0	0.00	0.00	8,285.7	207.4	-358.5	-210.3	0.00	0.00	0.00
8,400.0	0.00	0.00	8,385.7	207.4	-358.5	-210.3	0.00	0.00	0.00
8,500.0	0.00	0.00	8,485.7	207.4	-358.5	-210.3	0.00	0.00	0.00
8,600.0	0.00	0.00	8,585.7	207.4	-358.5	-210.3	0.00	0.00	0.00
8,700.0	0.00	0.00	8,685.7	207.4	-358.5	-210.3	0.00	0.00	0.00
8,800.0	0.00	0.00	8,785.7	207.4	-358.5	-210.3	0.00	0.00	0.00
8,900.0	0.00	0.00	8,885.7	207.4	-358.5	-210.3	0.00	0.00	0.00
8,944.6	0.00	0.00	8,930.3	207.4	-358.5	-210.3	0.00	0.00	0.00
FBSG									
9,000.0	0.00	0.00	8,985.7	207.4	-358.5	-210.3	0.00	0.00	0.00
9,100.0	0.00	0.00	9,085.7	207.4	-358.5	-210.3	0.00	0.00	0.00
9,200.0	0.00	0.00	9,185.7	207.4	-358.5	-210.3	0.00	0.00	0.00
9,300.0	0.00	0.00	9,285.7	207.4	-358.5	-210.3	0.00	0.00	0.00
9,369.8	0.00	0.00	9,355.5	207.4	-358.5	-210.3	0.00	0.00	0.00
SBSC									
9,400.0	0.00	0.00	9,385.7	207.4	-358.5	-210.3	0.00	0.00	0.00
9,500.0	0.00	0.00	9,485.7	207.4	-358.5	-210.3	0.00	0.00	0.00
9,600.0	0.00	0.00	9,585.7	207.4	-358.5	-210.3	0.00	0.00	0.00
9,623.2	0.00	0.00	9,609.0	207.4	-358.5	-210.3	0.00	0.00	0.00
SBSG									
9,700.0	0.00	0.00	9,685.7	207.4	-358.5	-210.3	0.00	0.00	0.00
9,800.0	0.00	0.00	9,785.7	207.4	-358.5	-210.3	0.00	0.00	0.00
9,900.0	0.00	0.00	9,885.7	207.4	-358.5	-210.3	0.00	0.00	0.00
10,000.0	0.00	0.00	9,985.7	207.4	-358.5	-210.3	0.00	0.00	0.00
10,100.0	0.00	0.00	10,085.7	207.4	-358.5	-210.3	0.00	0.00	0.00
10,126.2	0.00	0.00	10,112.0	207.4	-358.5	-210.3	0.00	0.00	0.00
TBSC									
10,200.0	0.00	0.00	10,185.7	207.4	-358.5	-210.3	0.00	0.00	0.00
10,300.0	0.00	0.00	10,285.7	207.4	-358.5	-210.3	0.00	0.00	0.00
10,400.0	0.00	0.00	10,385.7	207.4	-358.5	-210.3	0.00	0.00	0.00
10,500.0	0.00	0.00	10,485.7	207.4	-358.5	-210.3	0.00	0.00	0.00
10,600.0	0.00	0.00	10,585.7	207.4	-358.5	-210.3	0.00	0.00	0.00
10,700.0	0.00	0.00	10,685.7	207.4	-358.5	-210.3	0.00	0.00	0.00
10,800.0	0.00	0.00	10,785.7	207.4	-358.5	-210.3	0.00	0.00	0.00
10,833.7	0.00	0.00	10,819.4	207.4	-358.5	-210.3	0.00	0.00	0.00
TBSG									
10,900.0	0.00	0.00	10,885.7	207.4	-358.5	-210.3	0.00	0.00	0.00
11,000.0	0.00	0.00	10,985.7	207.4	-358.5	-210.3	0.00	0.00	0.00
11,100.0	0.00	0.00	11,085.7	207.4	-358.5	-210.3	0.00	0.00	0.00
11,173.4	0.00	0.00	11,159.1	207.4	-358.5	-210.3	0.00	0.00	0.00
L. TBSG									
11,200.0	0.00	0.00	11,185.7	207.4	-358.5	-210.3	0.00	0.00	0.00
11,249.9	0.00	0.00	11,235.6	207.4	-358.5	-210.3	0.00	0.00	0.00
WFMP-A									
11,300.0	0.00	0.00	11,285.7	207.4	-358.5	-210.3	0.00	0.00	0.00
11,400.0	0.00	0.00	11,385.7	207.4	-358.5	-210.3	0.00	0.00	0.00
11,500.0	0.00	0.00	11,485.7	207.4	-358.5	-210.3	0.00	0.00	0.00
11,532.1	0.00	0.00	11,517.8	207.4	-358.5	-210.3	0.00	0.00	0.00
WFMP A-Fat									
11,600.0	0.00	0.00	11,585.7	207.4	-358.5	-210.3	0.00	0.00	0.00
11,700.0	0.00	0.00	11,685.7	207.4	-358.5	-210.3	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Voni Fed Com #244H
Company:	Matador Production Company	TVD Reference:	KB @ 3222.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3222.5usft
Site:	Voni	North Reference:	Grid
Well:	Voni Fed Com #244H	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)
11,800.0	0.00	0.00	11,785.7	207.4	-358.5	-210.3	0.00	0.00	0.00
11,872.8	0.00	0.00	11,858.6	207.4	-358.5	-210.3	0.00	0.00	0.00
WFMP B									
11,900.0	0.00	0.00	11,885.7	207.4	-358.5	-210.3	0.00	0.00	0.00
11,941.3	0.00	0.00	11,927.0	207.4	-358.5	-210.3	0.00	0.00	0.00
Start DLS 10.00 TFO 179.57 - VP - Voni Fed Com #244H									
12,000.0	5.87	179.57	11,985.6	204.4	-358.5	-207.3	10.00	10.00	0.00
12,073.5	13.23	179.57	12,058.1	192.2	-358.4	-195.1	10.00	10.00	0.00
WFMP B.1									
12,100.0	15.87	179.57	12,083.7	185.5	-358.3	-188.5	10.00	10.00	0.00
12,200.0	25.87	179.57	12,177.0	150.0	-358.1	-152.9	10.00	10.00	0.00
12,273.9	33.27	179.57	12,241.3	113.5	-357.8	-116.4	10.00	10.00	0.00
WFMP B.2									
12,300.0	35.87	179.57	12,262.8	98.7	-357.7	-101.6	10.00	10.00	0.00
12,400.0	45.87	179.57	12,338.3	33.3	-357.2	-36.3	10.00	10.00	0.00
12,500.0	55.87	179.57	12,401.3	-44.1	-356.6	41.2	10.00	10.00	0.00
12,600.0	65.87	179.57	12,449.9	-131.4	-355.9	128.4	10.00	10.00	0.00
12,700.0	75.87	179.57	12,482.6	-225.7	-355.2	222.8	10.00	10.00	0.00
12,773.1	83.19	179.57	12,495.9	-297.6	-354.7	294.7	10.00	10.00	0.00
WFMP B.3									
12,800.0	85.87	179.57	12,498.5	-324.3	-354.5	321.4	10.00	10.00	0.00
12,841.3	90.00	179.57	12,500.0	-365.6	-354.2	362.6	10.00	10.00	0.00
Start 11970.3 hold at 12841.3 MD									
12,900.0	90.00	179.57	12,500.0	-424.3	-353.7	421.4	0.00	0.00	0.00
13,000.0	90.00	179.57	12,500.0	-524.3	-352.9	521.4	0.00	0.00	0.00
13,100.0	90.00	179.57	12,500.0	-624.3	-352.2	621.4	0.00	0.00	0.00
13,200.0	90.00	179.57	12,500.0	-724.3	-351.4	721.4	0.00	0.00	0.00
13,300.0	90.00	179.57	12,500.0	-824.3	-350.7	821.4	0.00	0.00	0.00
13,400.0	90.00	179.57	12,500.0	-924.3	-349.9	921.4	0.00	0.00	0.00
13,500.0	90.00	179.57	12,500.0	-1,024.3	-349.2	1,021.4	0.00	0.00	0.00
13,600.0	90.00	179.57	12,500.0	-1,124.3	-348.4	1,121.4	0.00	0.00	0.00
13,700.0	90.00	179.57	12,500.0	-1,224.3	-347.7	1,221.4	0.00	0.00	0.00
13,800.0	90.00	179.57	12,500.0	-1,324.3	-346.9	1,321.4	0.00	0.00	0.00
13,900.0	90.00	179.57	12,500.0	-1,424.3	-346.1	1,421.4	0.00	0.00	0.00
14,000.0	90.00	179.57	12,500.0	-1,524.3	-345.4	1,521.4	0.00	0.00	0.00
14,100.0	90.00	179.57	12,500.0	-1,624.3	-344.6	1,621.4	0.00	0.00	0.00
14,200.0	90.00	179.57	12,500.0	-1,724.3	-343.9	1,721.4	0.00	0.00	0.00
14,300.0	90.00	179.57	12,500.0	-1,824.3	-343.1	1,821.4	0.00	0.00	0.00
14,400.0	90.00	179.57	12,500.0	-1,924.3	-342.4	1,921.4	0.00	0.00	0.00
14,500.0	90.00	179.57	12,500.0	-2,024.2	-341.6	2,021.4	0.00	0.00	0.00
14,600.0	90.00	179.57	12,500.0	-2,124.2	-340.8	2,121.4	0.00	0.00	0.00
14,700.0	90.00	179.57	12,500.0	-2,224.2	-340.1	2,221.4	0.00	0.00	0.00
14,800.0	90.00	179.57	12,500.0	-2,324.2	-339.3	2,321.4	0.00	0.00	0.00
14,900.0	90.00	179.57	12,500.0	-2,424.2	-338.6	2,421.4	0.00	0.00	0.00
15,000.0	90.00	179.57	12,500.0	-2,524.2	-337.8	2,521.4	0.00	0.00	0.00
15,100.0	90.00	179.57	12,500.0	-2,624.2	-337.1	2,621.4	0.00	0.00	0.00
15,200.0	90.00	179.57	12,500.0	-2,724.2	-336.3	2,721.4	0.00	0.00	0.00
15,300.0	90.00	179.57	12,500.0	-2,824.2	-335.5	2,821.4	0.00	0.00	0.00
15,400.0	90.00	179.57	12,500.0	-2,924.2	-334.8	2,921.4	0.00	0.00	0.00
15,500.0	90.00	179.57	12,500.0	-3,024.2	-334.0	3,021.4	0.00	0.00	0.00
15,600.0	90.00	179.57	12,500.0	-3,124.2	-333.3	3,121.4	0.00	0.00	0.00
15,700.0	90.00	179.57	12,500.0	-3,224.2	-332.5	3,221.4	0.00	0.00	0.00
15,800.0	90.00	179.57	12,500.0	-3,324.2	-331.8	3,321.4	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Voni Fed Com #244H
Company:	Matador Production Company	TVD Reference:	KB @ 3222.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3222.5usft
Site:	Voni	North Reference:	Grid
Well:	Voni Fed Com #244H	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)
15,900.0	90.00	179.57	12,500.0	-3,424.2	-331.0	3,421.4	0.00	0.00	0.00
16,000.0	90.00	179.57	12,500.0	-3,524.2	-330.2	3,521.4	0.00	0.00	0.00
16,100.0	90.00	179.57	12,500.0	-3,624.2	-329.5	3,621.4	0.00	0.00	0.00
16,200.0	90.00	179.57	12,500.0	-3,724.2	-328.7	3,721.4	0.00	0.00	0.00
16,300.0	90.00	179.57	12,500.0	-3,824.2	-328.0	3,821.4	0.00	0.00	0.00
16,400.0	90.00	179.57	12,500.0	-3,924.2	-327.2	3,921.4	0.00	0.00	0.00
16,500.0	90.00	179.57	12,500.0	-4,024.2	-326.5	4,021.4	0.00	0.00	0.00
16,600.0	90.00	179.57	12,500.0	-4,124.2	-325.7	4,121.4	0.00	0.00	0.00
16,700.0	90.00	179.57	12,500.0	-4,224.2	-324.9	4,221.4	0.00	0.00	0.00
16,800.0	90.00	179.57	12,500.0	-4,324.2	-324.2	4,321.4	0.00	0.00	0.00
16,900.0	90.00	179.57	12,500.0	-4,424.2	-323.4	4,421.4	0.00	0.00	0.00
17,000.0	90.00	179.57	12,500.0	-4,524.2	-322.7	4,521.4	0.00	0.00	0.00
17,100.0	90.00	179.57	12,500.0	-4,624.2	-321.9	4,621.4	0.00	0.00	0.00
17,200.0	90.00	179.57	12,500.0	-4,724.2	-321.2	4,721.4	0.00	0.00	0.00
17,300.0	90.00	179.57	12,500.0	-4,824.2	-320.4	4,821.4	0.00	0.00	0.00
17,400.0	90.00	179.57	12,500.0	-4,924.2	-319.6	4,921.4	0.00	0.00	0.00
17,500.0	90.00	179.57	12,500.0	-5,024.2	-318.9	5,021.4	0.00	0.00	0.00
17,600.0	90.00	179.57	12,500.0	-5,124.2	-318.1	5,121.4	0.00	0.00	0.00
17,700.0	90.00	179.57	12,500.0	-5,224.2	-317.4	5,221.4	0.00	0.00	0.00
17,800.0	90.00	179.57	12,500.0	-5,324.2	-316.6	5,321.4	0.00	0.00	0.00
17,900.0	90.00	179.57	12,500.0	-5,424.2	-315.9	5,421.4	0.00	0.00	0.00
18,000.0	90.00	179.57	12,500.0	-5,524.1	-315.1	5,521.4	0.00	0.00	0.00
18,100.0	90.00	179.57	12,500.0	-5,624.1	-314.3	5,621.4	0.00	0.00	0.00
18,200.0	90.00	179.57	12,500.0	-5,724.1	-313.6	5,721.4	0.00	0.00	0.00
18,300.0	90.00	179.57	12,500.0	-5,824.1	-312.8	5,821.4	0.00	0.00	0.00
18,400.0	90.00	179.57	12,500.0	-5,924.1	-312.1	5,921.4	0.00	0.00	0.00
18,500.0	90.00	179.57	12,500.0	-6,024.1	-311.3	6,021.4	0.00	0.00	0.00
18,600.0	90.00	179.57	12,500.0	-6,124.1	-310.6	6,121.4	0.00	0.00	0.00
18,700.0	90.00	179.57	12,500.0	-6,224.1	-309.8	6,221.4	0.00	0.00	0.00
18,800.0	90.00	179.57	12,500.0	-6,324.1	-309.0	6,321.4	0.00	0.00	0.00
18,900.0	90.00	179.57	12,500.0	-6,424.1	-308.3	6,421.4	0.00	0.00	0.00
19,000.0	90.00	179.57	12,500.0	-6,524.1	-307.5	6,521.4	0.00	0.00	0.00
19,100.0	90.00	179.57	12,500.0	-6,624.1	-306.8	6,621.4	0.00	0.00	0.00
19,200.0	90.00	179.57	12,500.0	-6,724.1	-306.0	6,721.4	0.00	0.00	0.00
19,300.0	90.00	179.57	12,500.0	-6,824.1	-305.3	6,821.4	0.00	0.00	0.00
19,400.0	90.00	179.57	12,500.0	-6,924.1	-304.5	6,921.4	0.00	0.00	0.00
19,500.0	90.00	179.57	12,500.0	-7,024.1	-303.7	7,021.4	0.00	0.00	0.00
19,600.0	90.00	179.57	12,500.0	-7,124.1	-303.0	7,121.4	0.00	0.00	0.00
19,700.0	90.00	179.57	12,500.0	-7,224.1	-302.2	7,221.4	0.00	0.00	0.00
19,800.0	90.00	179.57	12,500.0	-7,324.1	-301.5	7,321.4	0.00	0.00	0.00
19,900.0	90.00	179.57	12,500.0	-7,424.1	-300.7	7,421.4	0.00	0.00	0.00
20,000.0	90.00	179.57	12,500.0	-7,524.1	-300.0	7,521.4	0.00	0.00	0.00
20,100.0	90.00	179.57	12,500.0	-7,624.1	-299.2	7,621.4	0.00	0.00	0.00
20,200.0	90.00	179.57	12,500.0	-7,724.1	-298.4	7,721.4	0.00	0.00	0.00
20,300.0	90.00	179.57	12,500.0	-7,824.1	-297.7	7,821.4	0.00	0.00	0.00
20,400.0	90.00	179.57	12,500.0	-7,924.1	-296.9	7,921.4	0.00	0.00	0.00
20,500.0	90.00	179.57	12,500.0	-8,024.1	-296.2	8,021.4	0.00	0.00	0.00
20,600.0	90.00	179.57	12,500.0	-8,124.1	-295.4	8,121.4	0.00	0.00	0.00
20,700.0	90.00	179.57	12,500.0	-8,224.1	-294.7	8,221.4	0.00	0.00	0.00
20,800.0	90.00	179.57	12,500.0	-8,324.1	-293.9	8,321.4	0.00	0.00	0.00
20,900.0	90.00	179.57	12,500.0	-8,424.1	-293.2	8,421.4	0.00	0.00	0.00
21,000.0	90.00	179.57	12,500.0	-8,524.1	-292.4	8,521.4	0.00	0.00	0.00
21,100.0	90.00	179.57	12,500.0	-8,624.1	-291.6	8,621.4	0.00	0.00	0.00
21,200.0	90.00	179.57	12,500.0	-8,724.1	-290.9	8,721.4	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Voni Fed Com #244H
Company:	Matador Production Company	TVD Reference:	KB @ 3222.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3222.5usft
Site:	Voni	North Reference:	Grid
Well:	Voni Fed Com #244H	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)	
21,300.0	90.00	179.57	12,500.0	-8,824.1	-290.1	8,821.4	0.00	0.00	0.00	
21,400.0	90.00	179.57	12,500.0	-8,924.1	-289.4	8,921.4	0.00	0.00	0.00	
21,500.0	90.00	179.57	12,500.0	-9,024.0	-288.6	9,021.4	0.00	0.00	0.00	
21,600.0	90.00	179.57	12,500.0	-9,124.0	-287.9	9,121.4	0.00	0.00	0.00	
21,700.0	90.00	179.57	12,500.0	-9,224.0	-287.1	9,221.4	0.00	0.00	0.00	
21,800.0	90.00	179.57	12,500.0	-9,324.0	-286.3	9,321.4	0.00	0.00	0.00	
21,900.0	90.00	179.57	12,500.0	-9,424.0	-285.6	9,421.4	0.00	0.00	0.00	
22,000.0	90.00	179.57	12,500.0	-9,524.0	-284.8	9,521.4	0.00	0.00	0.00	
22,100.0	90.00	179.57	12,500.0	-9,624.0	-284.1	9,621.4	0.00	0.00	0.00	
22,200.0	90.00	179.57	12,500.0	-9,724.0	-283.3	9,721.4	0.00	0.00	0.00	
22,300.0	90.00	179.57	12,500.0	-9,824.0	-282.6	9,821.4	0.00	0.00	0.00	
22,400.0	90.00	179.57	12,500.0	-9,924.0	-281.8	9,921.4	0.00	0.00	0.00	
22,500.0	90.00	179.57	12,500.0	-10,024.0	-281.0	10,021.4	0.00	0.00	0.00	
22,600.0	90.00	179.57	12,500.0	-10,124.0	-280.3	10,121.4	0.00	0.00	0.00	
22,700.0	90.00	179.57	12,500.0	-10,224.0	-279.5	10,221.4	0.00	0.00	0.00	
22,800.0	90.00	179.57	12,500.0	-10,324.0	-278.8	10,321.4	0.00	0.00	0.00	
22,900.0	90.00	179.57	12,500.0	-10,424.0	-278.0	10,421.4	0.00	0.00	0.00	
23,000.0	90.00	179.57	12,500.0	-10,524.0	-277.3	10,521.4	0.00	0.00	0.00	
23,100.0	90.00	179.57	12,500.0	-10,624.0	-276.5	10,621.4	0.00	0.00	0.00	
23,200.0	90.00	179.57	12,500.0	-10,724.0	-275.7	10,721.4	0.00	0.00	0.00	
23,300.0	90.00	179.57	12,500.0	-10,824.0	-275.0	10,821.4	0.00	0.00	0.00	
23,400.0	90.00	179.57	12,500.0	-10,924.0	-274.2	10,921.4	0.00	0.00	0.00	
23,500.0	90.00	179.57	12,500.0	-11,024.0	-273.5	11,021.4	0.00	0.00	0.00	
23,600.0	90.00	179.57	12,500.0	-11,124.0	-272.7	11,121.4	0.00	0.00	0.00	
23,700.0	90.00	179.57	12,500.0	-11,224.0	-272.0	11,221.4	0.00	0.00	0.00	
23,800.0	90.00	179.57	12,500.0	-11,324.0	-271.2	11,321.4	0.00	0.00	0.00	
23,900.0	90.00	179.57	12,500.0	-11,424.0	-270.4	11,421.4	0.00	0.00	0.00	
24,000.0	90.00	179.57	12,500.0	-11,524.0	-269.7	11,521.4	0.00	0.00	0.00	
24,100.0	90.00	179.57	12,500.0	-11,624.0	-268.9	11,621.4	0.00	0.00	0.00	
24,200.0	90.00	179.57	12,500.0	-11,724.0	-268.2	11,721.4	0.00	0.00	0.00	
24,300.0	90.00	179.57	12,500.0	-11,824.0	-267.4	11,821.4	0.00	0.00	0.00	
24,400.0	90.00	179.57	12,500.0	-11,924.0	-266.7	11,921.4	0.00	0.00	0.00	
24,500.0	90.00	179.57	12,500.0	-12,024.0	-265.9	12,021.4	0.00	0.00	0.00	
24,600.0	90.00	179.57	12,500.0	-12,124.0	-265.1	12,121.4	0.00	0.00	0.00	
24,700.0	90.00	179.57	12,500.0	-12,224.0	-264.4	12,221.4	0.00	0.00	0.00	
24,800.0	90.00	179.57	12,500.0	-12,324.0	-263.6	12,321.4	0.00	0.00	0.00	
24,811.6	90.00	179.57	12,500.0	-12,335.5	-263.5	12,333.0	0.00	0.00	0.00	
TD at 24811.6 - BHL - Voni Fed Com #244H										

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude Longitude		
VP - Voni Fed Com #244 - plan hits target center - Point	0.00	0.00	11,927.0	207.4	-358.5	376,972.00	671,608.00	32° 2' 6.724 N 103° 46' 46.350 W		
BHL - Voni Fed Com #244 - plan hits target center - Point	0.00	0.00	12,500.0	-12,335.5	-263.5	364,427.39	671,702.90	32° 0' 2.575 N 103° 46' 45.995 W		

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Voni Fed Com #244H
Company:	Matador Production Company	TVD Reference:	KB @ 3222.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3222.5usft
Site:	Voni	North Reference:	Grid
Well:	Voni Fed Com #244H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
893.6	891.6	Rustler				
1,574.6	1,572.6	Salado				
4,029.6	4,023.3	Base Salt				
4,056.9	4,050.5	Bell Canyon				
5,149.7	5,140.6	Cherry Canyon				
6,301.9	6,290.0	Brushy Canyon				
7,400.7	7,386.1	L. Brushy Canyon				
7,958.3	7,942.3	BSGL				
8,107.4	8,091.1	Avalon-SS				
8,944.6	8,928.3	FBSG				
9,369.8	9,353.5	SBSC				
9,623.2	9,607.0	SBSG				
10,126.2	10,110.0	TBSC				
10,833.7	10,817.4	TBSG				
11,173.4	11,157.1	L. TBSG				
11,249.9	11,233.6	WFMP-A				
11,532.1	11,515.8	WFMP A-Fat				
11,872.8	11,856.6	WFMP B				
12,073.5	12,056.1	WFMP B.1				
12,273.9	12,239.3	WFMP B.2				
12,773.1	12,493.9	WFMP B.3				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
2,000.0	2,000.0	0.0	0.0	Start Build 1.00	
2,402.1	2,401.8	7.1	-12.2	Start 5571.1 hold at 2402.1 MD	
7,973.2	7,959.2	202.7	-350.3	Start Drop -1.50	
8,241.3	8,227.0	207.4	-358.5	Start 3700.0 hold at 8241.3 MD	
11,941.3	11,927.0	207.4	-358.5	Start DLS 10.00 TFO 179.57	
12,841.3	12,500.0	-365.6	-354.2	Start 11970.3 hold at 12841.3 MD	
24,811.6	12,500.0	-12,335.5	-263.5	TD at 24811.6	



SURVEY PROGRAM

WELL DETAILS: Voni Fed Com #244H

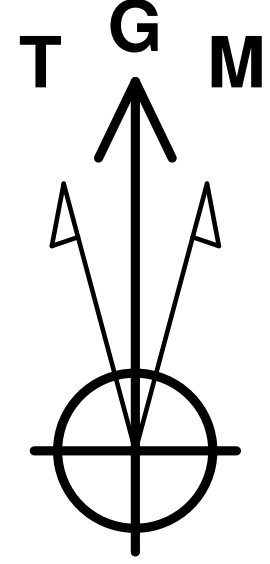
Depth From	Depth To	Survey/Plan	Tool				GL @ 3194.0	KB @ 3222.5usft		
0.0	24811.6	BLM Plan #1 (Wellbore #1)	MWD							
				+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
				0.0	0.0	376764.62	671966.48	32° 2' 4.654 N	103° 46' 42.198 W	

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
VP - Voni Fed Com #244H	11927.0	207.4	-358.5	376972.00	671608.00	32° 2' 6.724 N	103° 46' 46.350 W
BHL - Voni Fed Com #244H	12500.0	-12335.5	-263.5	364427.39	671702.90	32° 0' 2.575 N	103° 46' 45.995 W

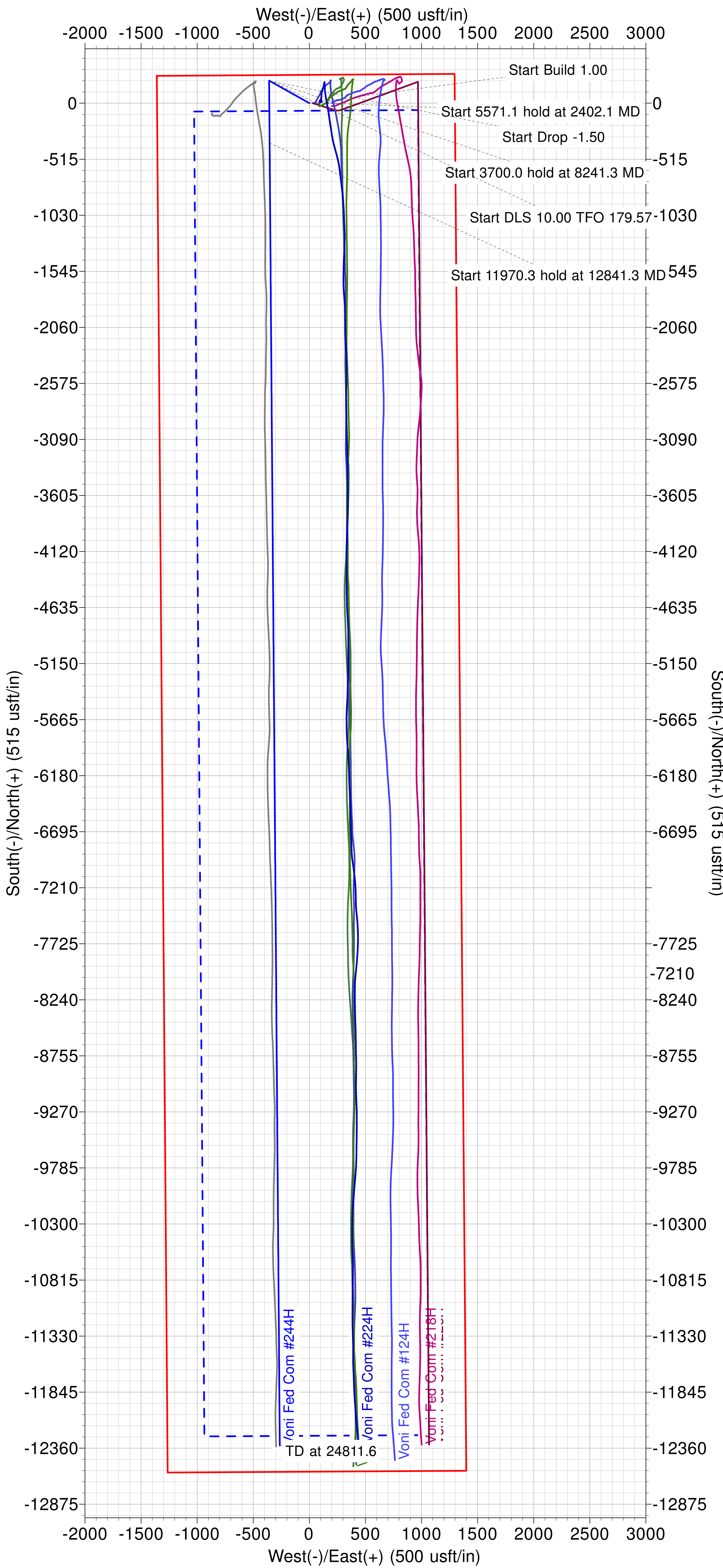
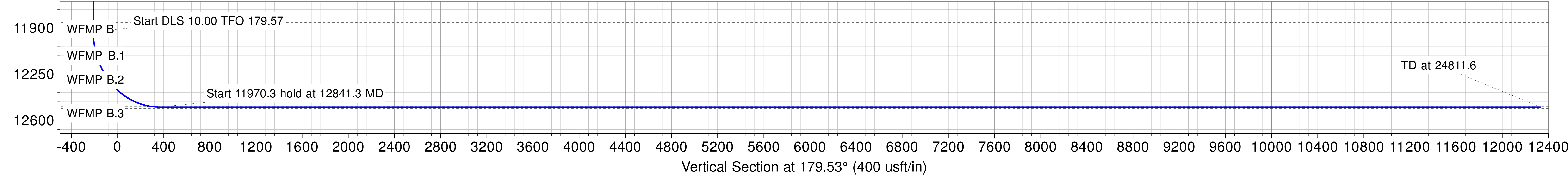
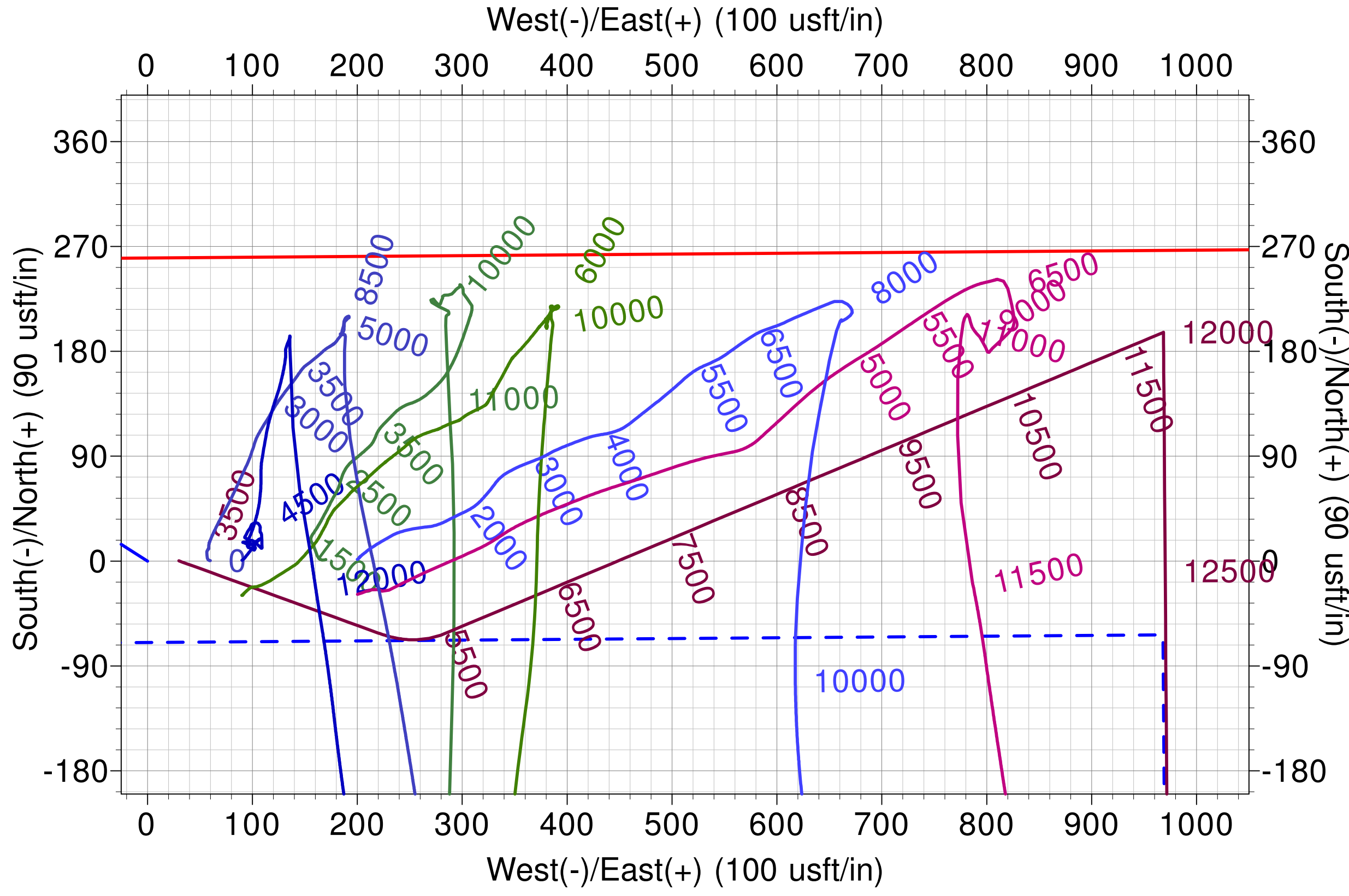
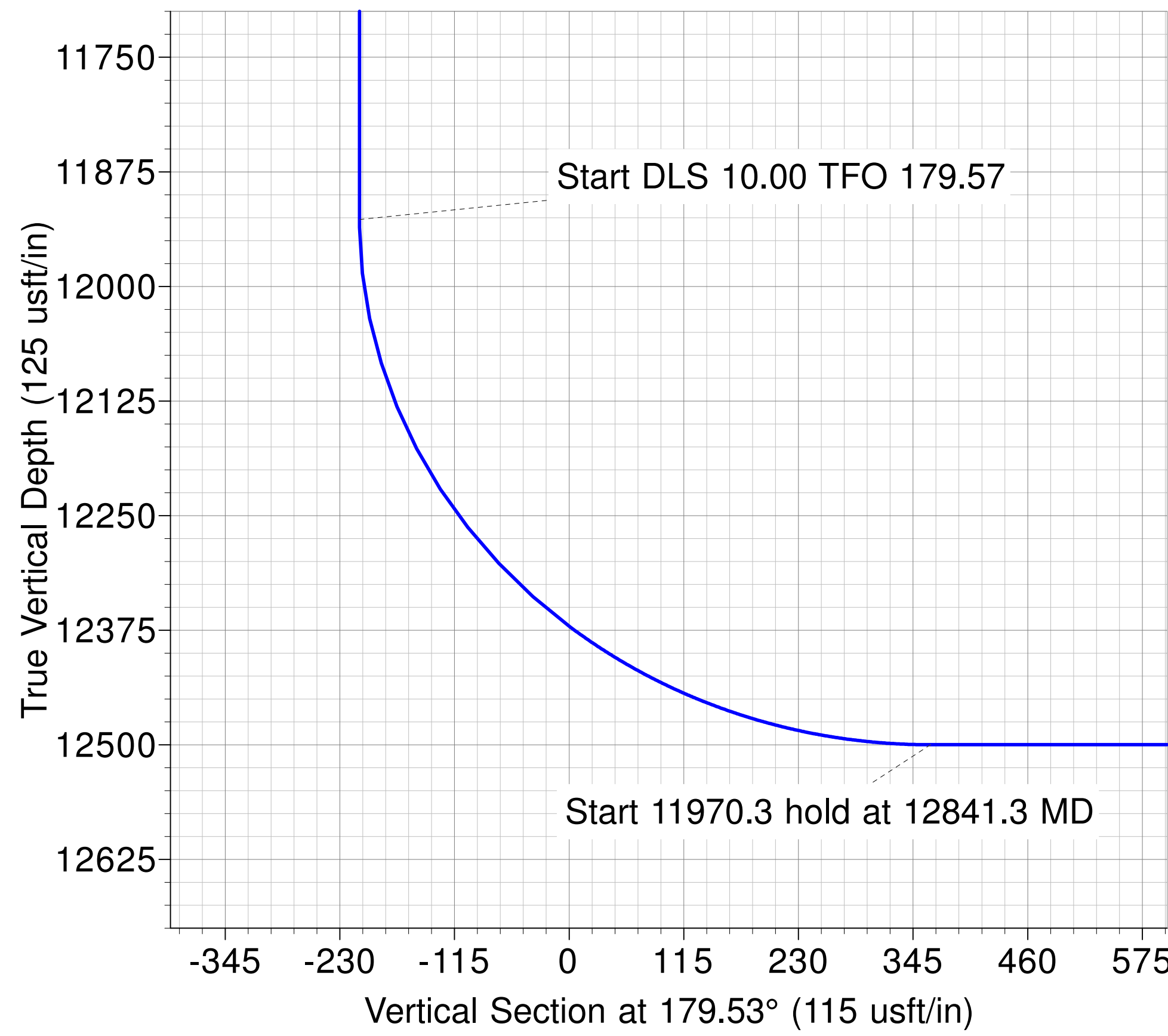
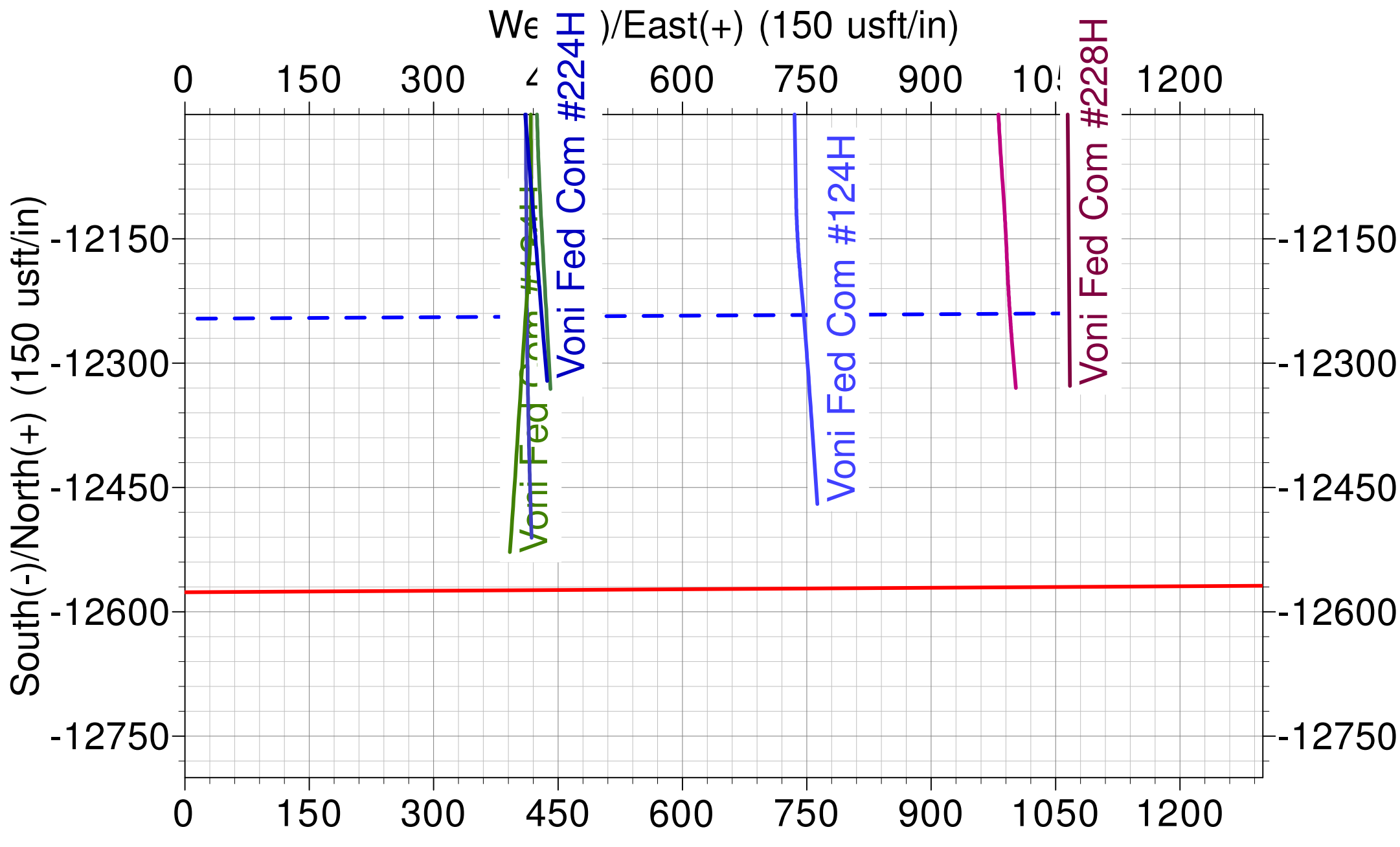
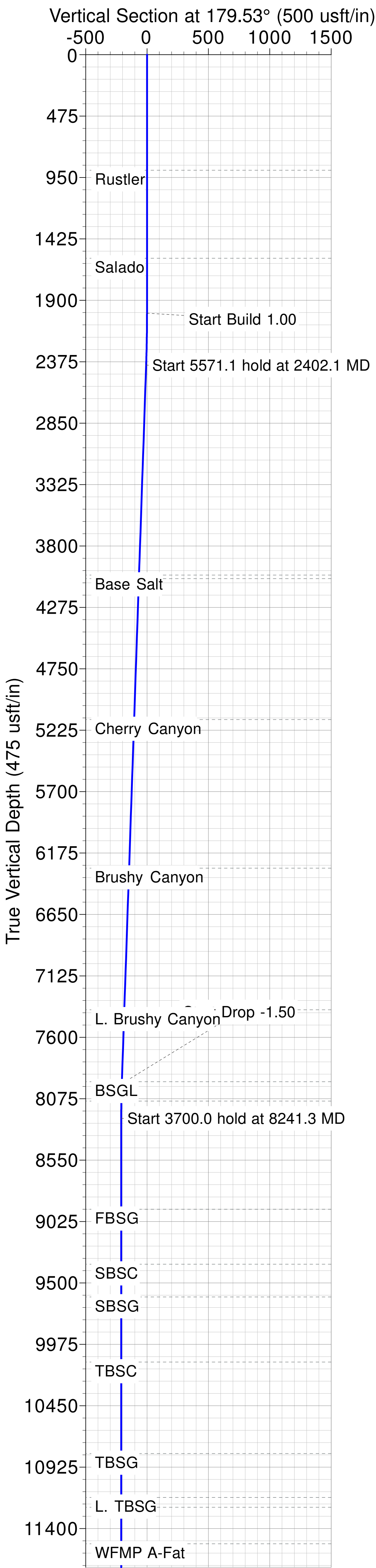
SECTION DETAILS

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	
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	Start Build 1.00
2402.1	4.02	300.05	2401.8	7.1	-12.2	1.00	300.05	-7.2	Start 5571.1 hold at 2402.1 MD
7973.2	4.02	300.05	7959.2	202.7	-350.3	0.00	0.00	-205.5	Start Drop -1.50
8241.3	0.00	0.00	8227.0	207.4	-358.5	1.50	180.00	-210.3	Start 3700.0 hold at 8241.3 MD
11941.3	0.00	0.00	11927.0	207.4	-358.5	0.00	0.00	-210.3	Start DLS 10.00 TFO 179.57
12841.3	90.00	179.57	12500.0	-365.6	-354.2	10.00	179.57	362.6	Start 11970.3 hold at 12841.3 MD
24811.6	90.00	179.57	12500.0	-12335.5	-263.5	0.00	0.00	12333.0	TD at 24811.6



Azimuths to Grid North
True North: -0.29°
Magnetic North: 6.22°

Magnetic Field
Strength: 47310.4snT
Dip Angle: 59.79°
Date: 4/19/2022
Model: IGRF2015



a2 well_id: 2539897
a2 app_id: 2667953
US Well Number: 3302503160
a1 well Id: 2539897
a1 notice Id:
a1 well_rmks_id: 26335
Author: RACHAEL RAMSEY
Remark Date: 2016-04-27
Remark Category: GENERAL

April 26, 2016

Electronic Commerce (EC)

Enerplus Resources
Attn: Joey Sheeley
950 17th Street Suite 2200
Denver, CO 80202

RE: Everest 148-95-12D-01H (Master)
SESE, Sec. 12, T148N, R95W (SHL)
NWSE, Sec. 1, T148N, R95W (BHL)
14-20-A04-9449
Dunn County, ND
EC#323960 Denali 148-95-12D-01H-TF
SESE, Sec. 12, T148N, R95W (SHL)
NWSE, Sec. 1, T148N, R95W (BHL)
14-20-A04-9449
Dunn County, ND
EC#323959

Dear Ms. Sheeley:

The enclosed Application for Permit to Drill (APD) is approved, subject to the following special conditions. Please be advised that all lease operations are also subject to the terms of the lease, all lease stipulations, and any written instructions or orders of the Authorized Officer or Surface Management Agency (see attachment to 12 point Surface Use Plan).

It is the sole responsibility of the operator and/or lessee to comply with all the requirements of Federal Oil and Gas regulations (43 CFR 3100), Notice to Lessees (NTL's), and Federal Onshore Oil and Gas Orders No. 1, 2, 3, 4, 5, 6, and 7. Any major deviation from the terms of this APD or Surface Use Plan requires prior approval.

CONDITIONS OF APPROVAL

I. SITE SPECIFIC REQUIREMENTS:

A. GAS FLARING: Gas produced from this well may not be vented or flared beyond an initial, authorized test period of 30 days or 50 MMCF following its completion, whichever first occurs, without the prior, written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the test period authorized above, you may be directed to shut in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted, and you shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

B. The operator is responsible for informing all persons in the area who are associated with this project that they will

be subject to prosecution for knowingly disturbing historic or archaeological materials which are uncovered during construction. The operator is to immediately stop work that might further disturb such materials, and contact the Authorized Officer (AO). Within five working days the AO will inform the operator as to:

whether the materials appear eligible for the National Register of Historic Places;

- the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and,

a timeframe for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and the mitigation is appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with the process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that the required mitigation has been completed, the operator will then be allowed to resume construction.

C. The surface casing shoe will not be drilled out until a minimum of 500 psi compressive strength is achieved at the shoe.

D. The Operator shall have sufficient weighting materials and loss circulation materials on location in the event of a pressure kick or in the event of loss circulation.

E. The flare line(s) discharge shall be located not less than 100 feet from the well head, having straight lines unless turns are targeted with running tees, and shall be positioned downwind of the prevailing wind direction and shall be anchored. The flare system shall have an effective method for ignition. Where noncombustible gas is likely or expected to be vented, the system shall be provided supplemental fuel for ignition and to maintain a continuous flare.

F. At the least, a cement bond log and gamma ray log will need to be run from the intermediate casing shoe to the base of the surface casing.

G. The following conditions of approval apply to the use of flex hose regarding this operation:

1. Manufacturer's technical specification must be kept on site and available for inspection at all times. Flexible hoses once approved and installed must match the original manufacturer's technical specifications regarding all stated dimensions and ratings. Flexible hoses which have been altered, repaired, or remanufactured in any way from their original specification without approval or certification from the original manufacturer will not be allowed. If the specifications are not available on site or the hose does not match the specifications, operations may be shut down until correction is accomplished.

2. Each flexible hose must be marked/stamped by the manufacturer with the following information clearly legible and accessible on the steel sections of each end of the flexible hose (end fittings, couplers, flanges, stiffeners, etc.):

- a. Name or identification of the manufacturer.
- b. Serial number.
- c. The internal diameter of the flexible hose assembly.
- d. The rated working pressure of the flexible hose assembly.

3. Flexible hoses must be firmly anchored to prevent excessive whip or vibration. Anchors must be constructed in a manner capable of withstanding whip and vibration given the rated working pressure and flow rates of the well control equipment. If the manufacturer does not specify anchoring requirements, they shall be anchored as follows:

- a. Anchors must be attached to the flexible portion of the hose and not to the "metal end assemblies" (e.g. hubs,

flanges, stiffeners, etc.).

b. Flexible hoses of twenty (20) feet or more in total length must be supported in order to keep the hose fairly level and secure from excessive movement. Leveling support locations must also be anchored adequately to withstand whip and vibration under rated working pressures and rated flowing conditions.

c. Each and every bend in the flexible hoses exceeding 450 must be anchored.

4. Use, operation, and maintenance of flexible hoses will comply fully with the manufacturer's specifications unless otherwise specified by the Authorized Officer.

5. Minimum diameters for choke lines will comply with the requirements of Onshore Order No. 2, III.A.2.a.

6. Flexible hose end connections will meet all minimum requirements of Onshore Order No. 2. For example 3M systems and above require "All BOPE connections subjected to well pressure shall be flanged, welded, or clamped".

7. Flexible hoses which are deformed (kinks, flattened areas, dents, significant surface abrasions or wear, permanent bends, etc.) from the manufacturer's design and operational specification will be replaced upon discovery.

H. Initial H2S training shall be completed and all H2S related safety equipment shall be installed, tested, and operational when drilling reaches a depth of 500 feet above, or 3 days prior to penetrating (whichever comes first) the first zone containing or reasonably expected to contain H2S. A specific H2S operations for completion and workover operation will not be required for approval. For completion and workover operations, all required equipment and warning systems shall be operational and training completed prior to commencing operations.

I. A road share agreement must be obtained from HRC for access road usage.

II. CONSTRUCTION AND DRILLING OPERATIONS:

A. A complete copy of the approved (APD), including conditions, stipulations, exhibits, and the H2S contingency plan (if required) must be on the well site and available for reference during the construction and drilling phases.

B. Notification requirements:

1. Verbally notify this office of the following actions:

a. At least 24 hours prior to beginning road and location construction.

b. Not more than 24 hours after the well is spudded, or on the next regular business day.

c. At least 24 hours prior to running/cementing surface casing. (This notification may be combined with the spud notice).

d. At least 24 hours prior to testing BOPE.

e. At least 24 hours prior to drilling 1000' above the Mission Canyon Formation or any H2S bearing formation, or on next regular business day.

2. Prior approval for abandonment must be obtained from the Authorized Officer. For verbal plugging orders on drilling locations, notify this office prior to plugging.

BLM representatives can be reached Monday through Friday (8:00AM - 4:30PM) at the office telephone no. (701) 227-7700. The BLM personnel can be contacted after hours or on weekends for plugging approvals or any other approvals/change in plans which do not allow for communications during normal office hours by calling the following personnel.

Name

Home/Cell Telephone

On Call 24 Hr. Cellular Phone	On-Call	701-290-8220 (c)
Supv Petroleum Engineer Tech. Don Herauf		701-290-8217 (c)
Natural Resources Specialist Assigned		701-227-7700 (o)

a2 well_id: 2539897
a2 app_id: 2667953
US Well Number: 3302503160
a1 well Id: 2539897
a1 notice Id:
a1 well_rmks_id: 26335
Author: RACHAEL RAMSEY
Remark Date: 2016-04-27
Remark Category: GENERAL

April 26, 2016

Electronic Commerce (EC)

Enerplus Resources
Attn: Joey Sheeley
950 17th Street Suite 2200
Denver, CO 80202

RE: Everest 148-95-12D-01H (Master)
SESE, Sec. 12, T148N, R95W (SHL)
NWSE, Sec. 1, T148N, R95W (BHL)
14-20-A04-9449
Dunn County, ND
EC#323960 Denali 148-95-12D-01H-TF
SESE, Sec. 12, T148N, R95W (SHL)
NWSE, Sec. 1, T148N, R95W (BHL)
14-20-A04-9449
Dunn County, ND
EC#323959

Dear Ms. Sheeley:

The enclosed Application for Permit to Drill (APD) is approved, subject to the following special conditions. Please be advised that all lease operations are also subject to the terms of the lease, all lease stipulations, and any written instructions or orders of the Authorized Officer or Surface Management Agency (see attachment to 12 point Surface Use Plan).

It is the sole responsibility of the operator and/or lessee to comply with all the requirements of Federal Oil and Gas regulations (43 CFR 3100), Notice to Lessees (NTL's), and Federal Onshore Oil and Gas Orders No. 1, 2, 3, 4, 5, 6, and 7. Any major deviation from the terms of this APD or Surface Use Plan requires prior approval.

CONDITIONS OF APPROVAL

I. SITE SPECIFIC REQUIREMENTS:

A. GAS FLARING: Gas produced from this well may not be vented or flared beyond an initial, authorized test period of 30 days or 50 MMCF following its completion, whichever first occurs, without the prior, written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the test period authorized above, you may be directed to shut in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted, and you shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

B. The operator is responsible for informing all persons in the area who are associated with this project that they will

be subject to prosecution for knowingly disturbing historic or archaeological materials which are uncovered during construction. The operator is to immediately stop work that might further disturb such materials, and contact the Authorized Officer (AO). Within five working days the AO will inform the operator as to:

whether the materials appear eligible for the National Register of Historic Places;

- the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and,

a timeframe for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and the mitigation is appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with the process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that the required mitigation has been completed, the operator will then be allowed to resume construction.

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Supv Petroleum Engineer Tech. Don Herauf		701-290-8217 (c)
Natural Resources Specialist Assigned		701-227-7700 (o)

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 172734

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 172734
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	1/11/2023