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.

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool or Exploratory Area

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

11. Country or Parish, State

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

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

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete 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 OFICE 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 ofthis form to U.S. Department ofthe Interior, Bureau ofLand 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: NENW / 350 FNL / 2350 FWL / TWSP: 26S / RANGE: 31E / SECTION: 21 / LAT: 32.0344973 / LONG: -103.7842269 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 330 FNL / 1980 FWL / TWSP: 26S / RANGE: 31E / SECTION: 21 / LAT: 32.0345514 / LONG: -103.7854228 (TVD: 11208 feet, MD: 11208 feet)

PPP: NENW / 0 FNL / 1980 FWL / TWSP: 26S / RANGE: 31E / SECTION: 28 / LAT: 32.0208124 / LONG: -103.785392 (TVD: 13558 feet, MD: 18600 feet)

BHL: LOT 3 / 240 FSL / 1980 FWL / TWSP: 26S / RANGE: 31E / SECTION: 33 / LAT: 32.0008374 / LONG: -103.7853479 (TVD: 12956 feet, MD: 25283 feet)

CONFIDENTIAL

Well Name: VONI FED COM

Well Location: T26S / R31E / SEC 21 / NENW / 32.0344973 / -103.7842269

County or Parish/State: EDDY / NM

Well Number: 242H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM138866

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001547111

Well Status: Approved Application for Permit to Drill

Operator: MATADOR PRODUCTION COMPANY

Notice of Intent

Sundry ID: 2667951

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/21/2022

Time Sundry Submitted: 08:32

Date proposed operation will begin: 12/01/2022

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 #242H: - Change the SHL from 350’ FNL & 2350’ FWL to 350’ FNL & 2300’ FWL. SHL remains on previously approved pad site. - Change the BHL from 240’ FSL & 1980’ FWL to 240’ FSL & 1001’ FWL. 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

Voni_Fed_Com_242H_Directional_AC_Report_v3_20220421082847.pdf

LO_VONI_FED_COM_242H_REV6_S_20220421082848.pdf

Voni_Fed_Com_242H_BLM_Drill_Plan_20220421082847.pdf

Voni_Fed_Com_242H_Directional_Well_Plan_v3_20220421082847.pdf

Voni_Fed_Com_242H_BLM_Tapered_String_Spec_20220421082847.pdf

Voni_Fed_Com_242H_Directional_Wall_Plot_v3_20220421082847.pdf

Released to Imaging: 1/12/2023 7:46:53 AM

Well Name: VONI FED COM

Well Location: T26S / R31E / SEC 21 / NENW / 32.0344973 / -103.7842269

County or Parish/State: EDDY / NM

Well Number: 242H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM138866

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001547111

Well Status: Approved Application for Permit to Drill

Operator: MATADOR PRODUCTION COMPANY

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: HAWKS HOLDER

Signed on: APR 21, 2022 08:28 AM

Name: MATADOR PRODUCTION COMPANY

Title: Landman

Street Address: 5400 LBJ FREEWAY, SUITE 1500

City: DALLAS **State:** TX

Phone: (806) 282-6846

Email address: HAWKS.HOLDER@MATADORRESOURCES.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CODY LAYTON

BLM POC Title: Assistant Field Manager Lands & Minerals

BLM POC Phone: 5752345959

BLM POC Email Address: clayton@blm.gov

Disposition: Approved

Disposition Date: 12/20/2022

Signature: Cody R. Layton

Released to Imaging: 1/12/2023 7:46:53 AM

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	[2]Pool Code	[3]Pool Name
30-015-47111	98220	PURPLE SAGE; WOLFCAMP (GAS)

[4]Property Code	[5]Property Name	[6]Well Number
328098	VONI FED COM	242H

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

[10]Surface Location

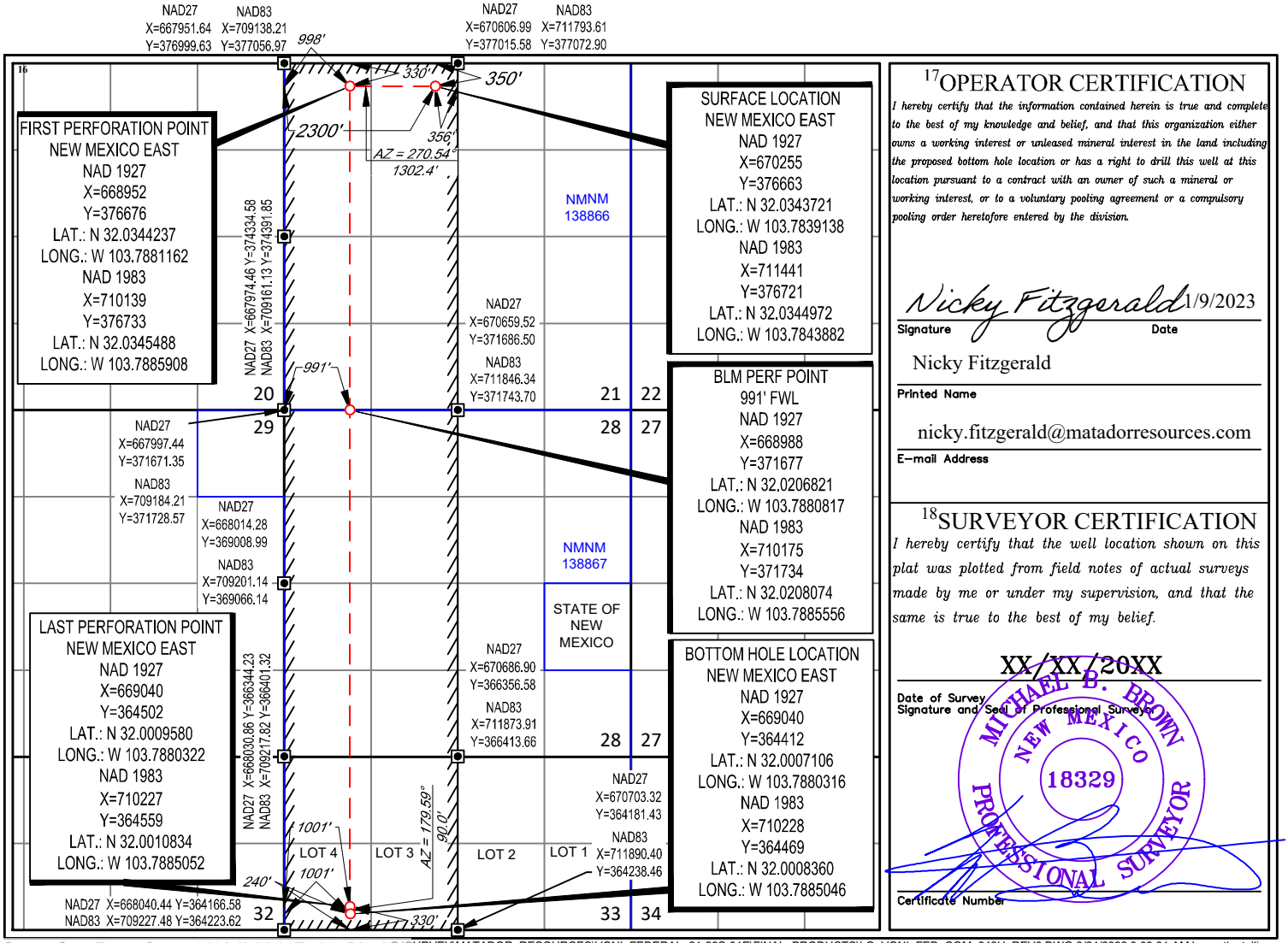
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	21	26-S	31-E	–	350'	NORTH	2300'	WEST	EDDY

[11]Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	33	26-S	31-E	–	240'	SOUTH	1001'	WEST	EDDY

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
770.71			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



[17]OPERATOR CERTIFICATION

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

Nicky Fitzgerald 1/9/2023
Signature Date

Nicky Fitzgerald
Printed Name

nicky.fitzgerald@matadorresources.com
E-mail Address

[18]SURVEYOR CERTIFICATION

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

XX/XX/20XX
Date of Survey
Signature and Seal of Professional Surveyor

MICHAEL B. BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR

Certificate Number

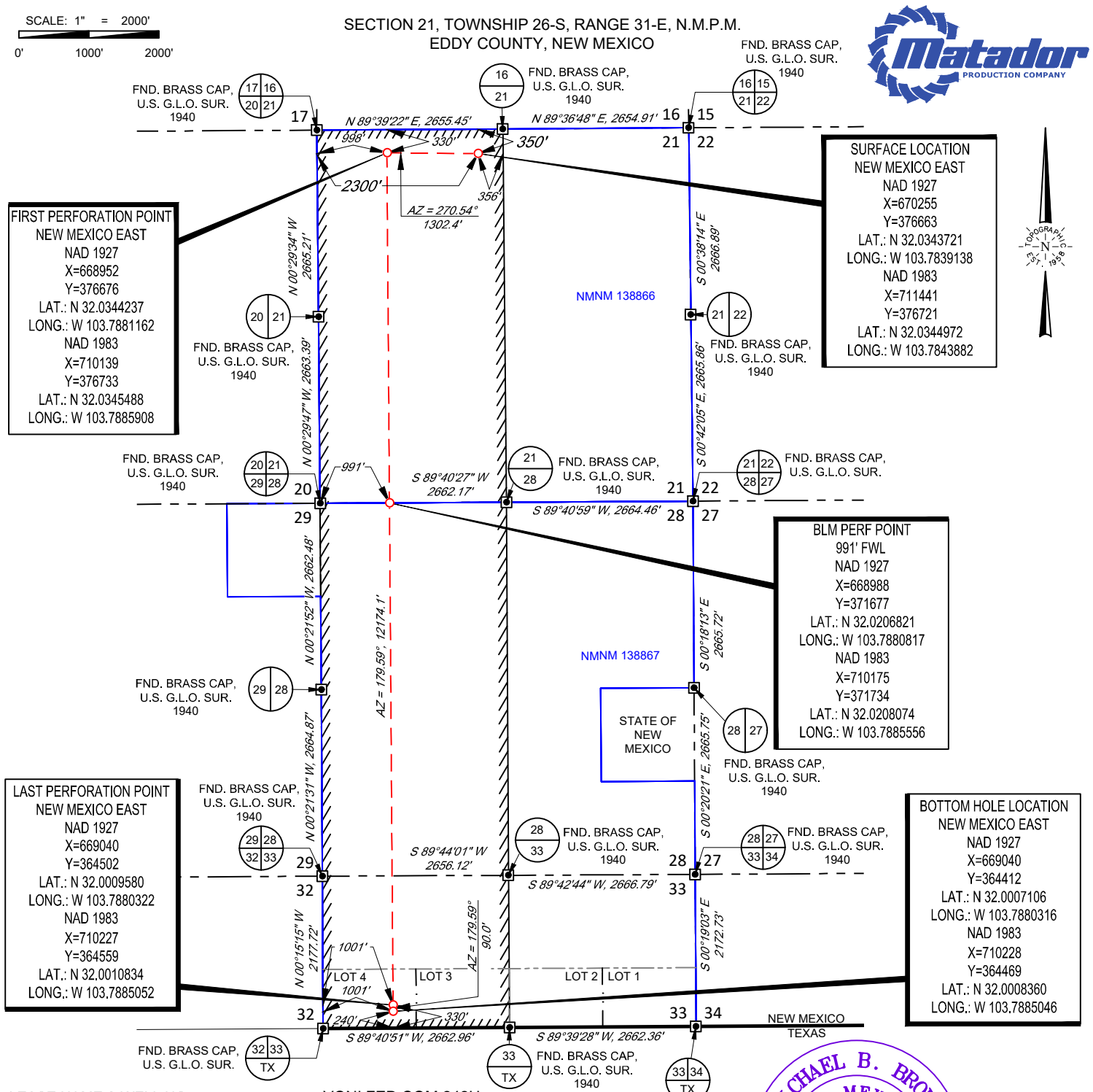
SURVEY\MATADOR_RESOURCES\VONI_FEDERAL_21-26S-31E\FINAL_PRODUCTS\LO_VONI_FED_COM_242H_REV6.DWG 3/24/2022 9:03:31 AM kenneth.stallings

SCALE: 1" = 2000'

0' 1000' 2000'

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

Matador PRODUCTION COMPANY



FIRST PERFORATION POINT
NEW MEXICO EAST
NAD 1927
X=668952
Y=376676
LAT.: N 32.0344237
LONG.: W 103.7881162
NAD 1983
X=710139
Y=376733
LAT.: N 32.0345488
LONG.: W 103.7885908

SURFACE LOCATION
NEW MEXICO EAST
NAD 1927
X=670255
Y=376663
LAT.: N 32.0343721
LONG.: W 103.7839138
NAD 1983
X=711441
Y=376721
LAT.: N 32.0344972
LONG.: W 103.7843882

BLM PERF POINT
991' FWL
NAD 1927
X=668988
Y=371677
LAT.: N 32.0206821
LONG.: W 103.7880817
NAD 1983
X=710175
Y=371734
LAT.: N 32.0208074
LONG.: W 103.7885556

LAST PERFORATION POINT
NEW MEXICO EAST
NAD 1927
X=669040
Y=364502
LAT.: N 32.0009580
LONG.: W 103.7880322
NAD 1983
X=710227
Y=364559
LAT.: N 32.0010834
LONG.: W 103.7885052

BOTTOM HOLE LOCATION
NEW MEXICO EAST
NAD 1927
X=669040
Y=364412
LAT.: N 32.0007106
LONG.: W 103.7880316
NAD 1983
X=710228
Y=364469
LAT.: N 32.0008360
LONG.: W 103.7885046

LEASE NAME & WELL NO.: VONI FED COM 242H

SECTION 21 TWP 26-S RGE 31-E SURVEY N.M.P.M.

COUNTY EDDY STATE NM

DESCRIPTION 350' FNL & 2300' FWL

DISTANCE & DIRECTION

FROM INT. OF NM128. & J-1/ORLA RD., GO SOUTH ON J-1/ORLA RD. ±10.5 MILES, THENCE WEST (RIGHT) ON PIPELINE RD ±5.2 MILES, THENCE SOUTH (LEFT) ON PROPOSED RD. ±1.0 MILE, THENCE WEST (RIGHT) ON PROPOSED RD. ±1.8 MILES, THENCE WEST (RIGHT) ON PROPOSED RD. ±1209 FEET, TO A POINT ±305 FEET NORTHEAST OF THE LOCATION.

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

THIS EASEMENT/SERVITUDE 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. 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.

AS OF THE DATE OF SURVEY, ALL ABOVE GROUND APPURTENANCES WITHIN 300' OF THE STAKED LOCATION ARE SHOWN HEREON.

MICHAEL B. BROWN NEW MEXICO 18329 PROFESSIONAL SURVEYOR

Michael Blake Brown, P.S. No. 18329

March 14, 2022

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

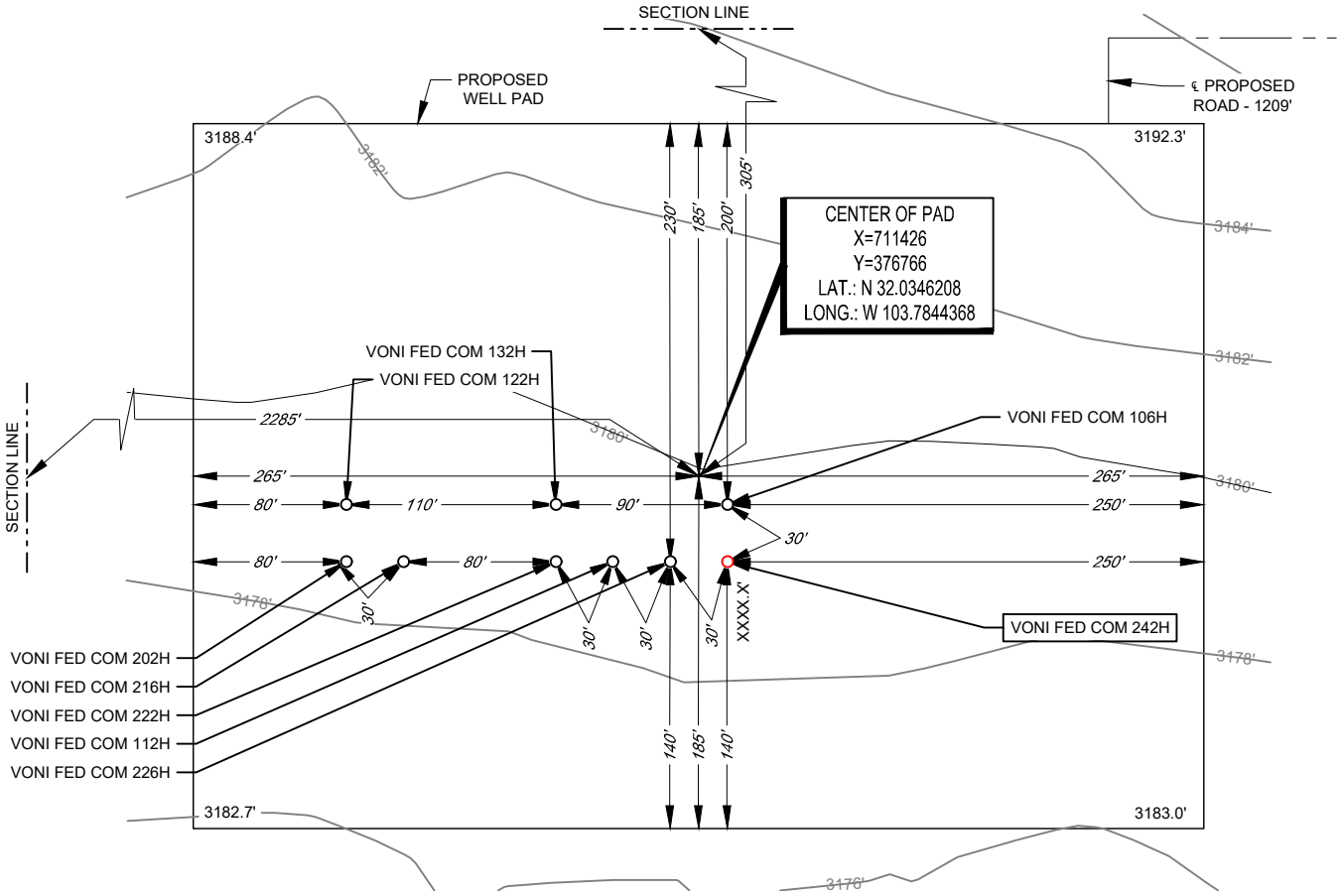
S:\SURVEY\MATADOR_RESOURCES\VONI_FEDERAL_21-26S-31E\FINAL_PRODUCTS\LO_VONI_FED_COM_242H_REV6.DWG 3/24/2022 9:03:32 AM kenneth.stallings

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 242H

242H LATITUDE N 32.0344972 242H LONGITUDE W 103.7843882

CENTER OF PAD IS 305' FNL & 2285' FWL

MICHAEL B. BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR

Michael Blake Brown, P.S. No. 18329

March 14, 2022

SCALE: 1" = 100'

0' 50' 100'

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"

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

Tapered String Specification Sheet

Voni Fed Com 242H
SHL: 350' FNL & 2300' FWL Section 21
BHL: 240' FSL & 1001' FWL Section 33
Township/Range: 26S 31E
Elevation Above Sea Level: 3286'

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 - 11865	0 - 11777	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	6.75	0 - 24887	0 - 12500	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

Voni Fed Com 242H
SHL: 350' FNL & 2300' FWL Section 21
BHL: 240' FSL & 1001' FWL Section 33
Township/Range: 26S 31E
Elevation Above Sea Level: 3286

Drilling Operation Plan

Proposed Drilling Depth: 24887' 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): 32.0353181352 N / -103.7882648714 W
TD Lat/Long (NAD83): 32.0008359145 N N / -103.7885051283 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	789	789	748	Anhydrite	Barren
Salado (Top of Salt)	1,537	1,537	1,854	Salt	Barren
Lamar (Base of Salt)	3,993	3,993	30	Salt	Barren
Bell Canyon	4,023	4,023	1,114	Sandstone	Oil/Natural Gas
Cherry Canyon	5,137	5,137	1,139	Sandstone	Oil/Natural Gas
Brushy Canyon	6,276	6,276	1,646	Sandstone	Oil/Natural Gas
Bone Spring Lime	7,922	7,922	965	Limestone	Oil/Natural Gas
1st Bone Spring Sand	8,887	8,887	462	Sandstone	Oil/Natural Gas
2nd Bone Spring Carbonate	9,349	9,349	213	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	9,562	9,562	558	Sandstone	Oil/Natural Gas
3rd Bone Spring Carbonate	10,120	10,120	661	Carbonate	Oil/Natural Gas
3rd Bone Spring Sand	10,781	10,781	427	Sandstone	Oil/Natural Gas
Wolfcamp	11,208	11,208	-	Shale	Oil/Natural Gas
KOP	**12,015**	**11,927**	**-**	**Shale**	**Oil/Natural Gas**
TD	**24,887**	**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.

Testing 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 - 11865	0 - 11777	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	6.75	0 - 24887	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

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	880	3.66	3217	10.3	25%	0	A/C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	200	1.41	286	13.2	25%	10865	A/C	Fluid Loss + Dispersant + Retarder + LCM
Production	Tail	1030	1.19	1224	14.2	10%	11665	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 - 11865	8.4 - 9.4	28-30	NC
Production	6.75	OBM	11865 - 24887	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.

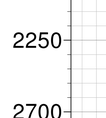
In accordance with Onshore Order 6, Matador does not anticipate that there will be enough H2S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of a "H2S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this 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.

Received by OCD: 1/9/2023 7:23:46 AM

Company: Matador Production Company
Well: Voni Fed Com #242H
County: Eddy County, New Mexico
Wellbore: Wellbore #1
Plan: BLM Plan #1
Date: 1/16/2020

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

To convert a Magnetic Direction to a Grid Direction, Add 6.22°
To convert a Magnetic Direction to a True Direction, Add 6.51° East
To convert a True Direction to a Grid Direction, Subtract 0.29°



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

Magnetic Field
Strength: 47311.7snT
Dip Angle: 59.79°
Date: 4/12/2022
Model: IGRF2015

SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
0.0	24887.2	BLM Plan #1 (Wellbore #1)	MWD

WELL DETAILS: Voni Fed Com #242H

GL @ 3186.0 KB @ 3214.5usft

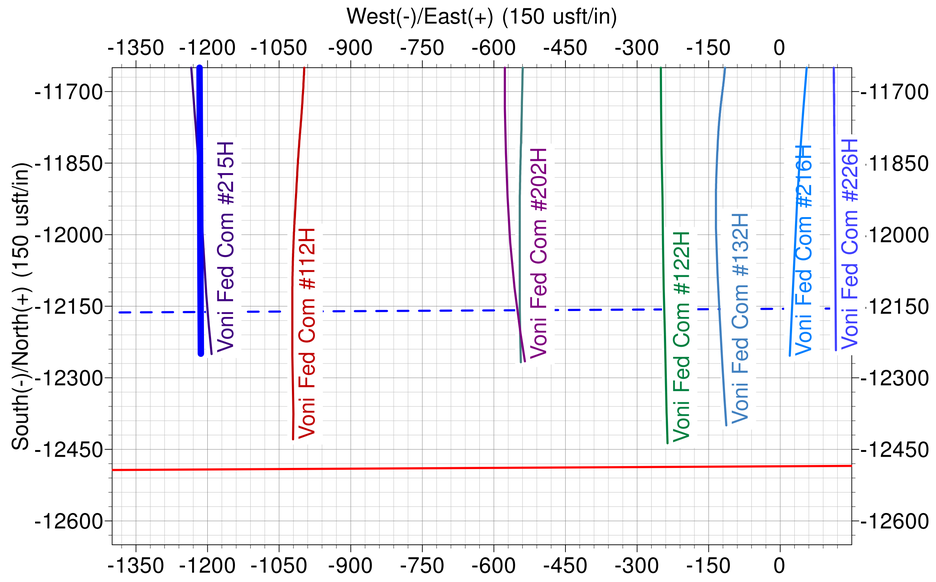
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.0	0.0	376663.47	670254.72	32° 2' 3.740 N	103° 47' 2.090 W	

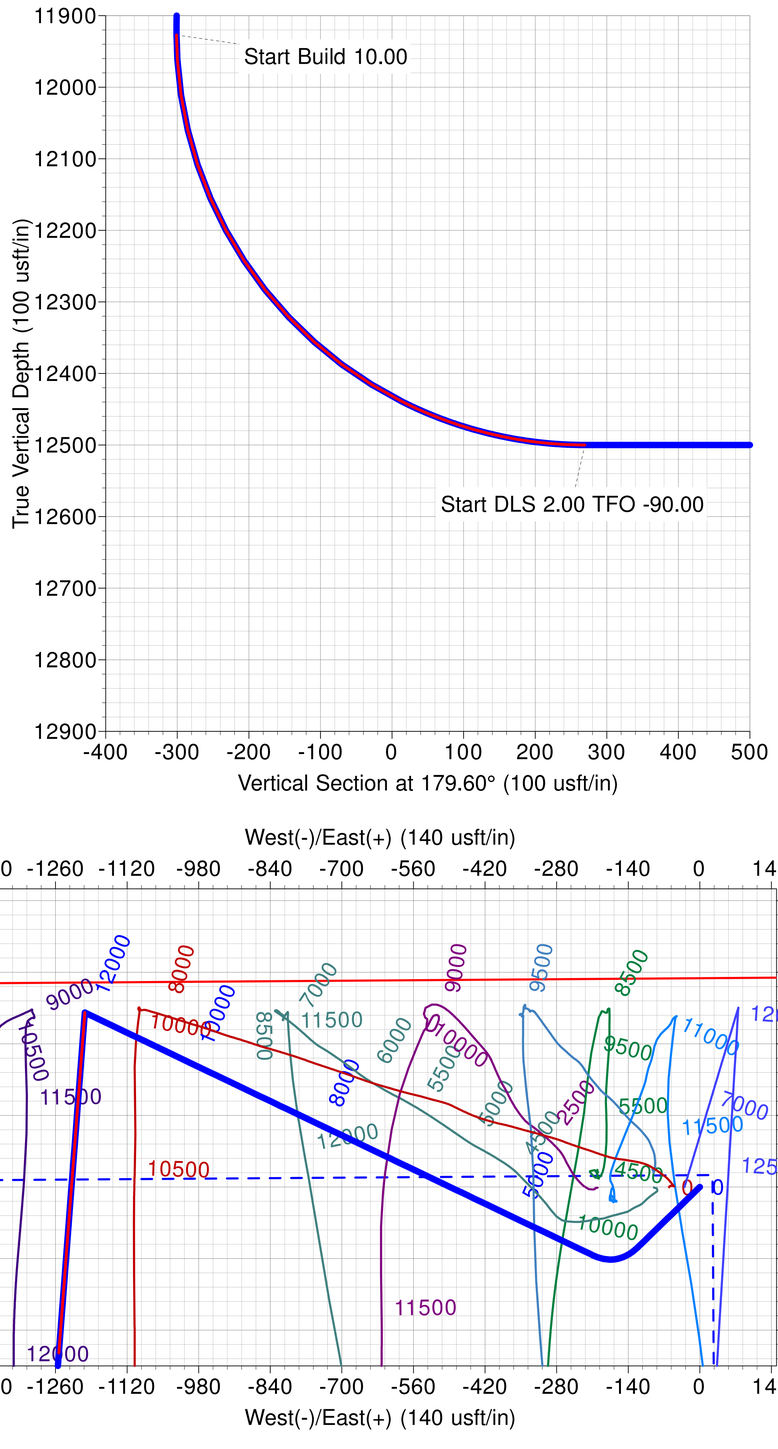
DESIGN TARGET DETAILS

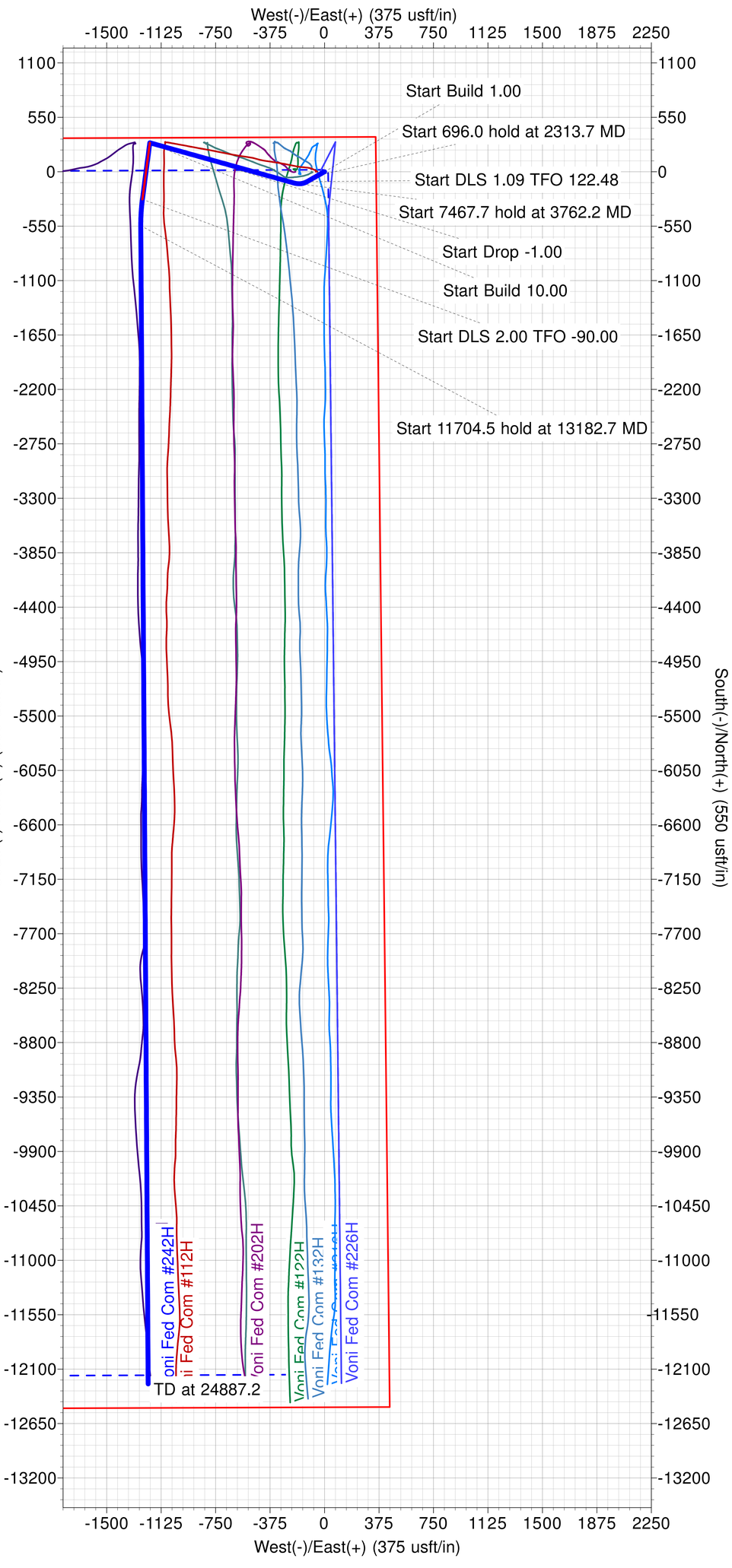
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
VP - Voni Fed Com #242H	11927.0	292.5	-1202.7	376956.00	669052.00	32° 2' 6.695 N	103° 47' 16.044 W
BHL - Voni Fed Com #242H	12500.0	-12249.6	-1214.1	364412.14	669040.46	32° 0' 2.558 N	103° 47' 16.914 W

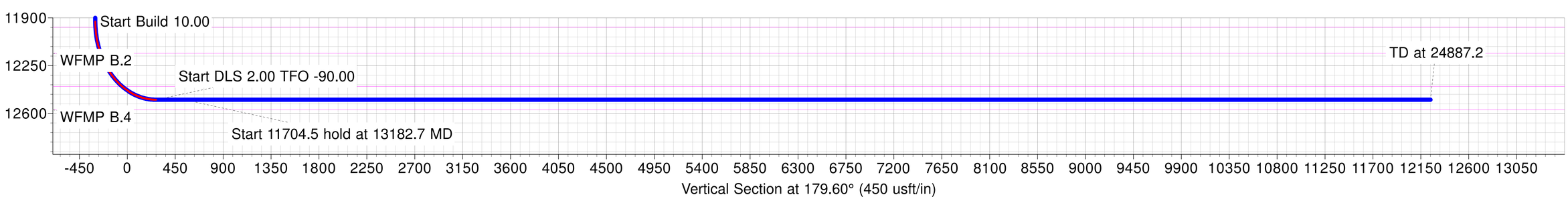
SECTION DETIALS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DIeg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	Start Build 1.00
2313.7	8.14	230.19	2311.0	-36.9	-44.3	1.00	230.19	36.6	Start 696.0 hold at 2313.7 MD
3009.7	8.14	230.19	3000.0	-100.0	-120.0	0.00	0.00	99.2	Start DLS 1.09 TFO 122.48
3762.2	7.85	292.27	3746.4	-114.6	-208.6	1.09	122.48	113.2	Start 7467.7 hold at 3762.2 MD
11229.9	7.85	292.27	11144.0	272.2	-1153.0	0.00	0.00	-280.2	Start Drop -1.00
12015.3	0.00	0.00	11927.0	292.5	-1202.7	1.00	180.00	-300.9	Start Build 10.00
12915.3	90.00	185.10	12500.0	-278.2	-1253.6	10.00	185.10	269.4	Start DLS 2.00 TFO -90.00
13182.7	90.00	179.75	12500.0	-545.3	-1265.0	2.00	-90.00	536.4	Start 11704.5 hold at 13182.7 MD
24887.2	90.00	179.75	12500.0	-12249.6	-1214.1	0.00	0.00	12240.8	TD at 24887.2









Released to Imaging: 1/12/2023 7:46:53 AM

Matador Production Company

Rustler Breaks
Voni
Voni Fed Com #242H

Wellbore #1

Plan: BLM Plan #1

Standard Planning Report

12 April, 2022

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3214.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3214.5usft
Site:	Voni	**North Reference:**	Grid
Well:	Voni Fed Com #242H	**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 #242H				
Well Position	**+N/-S**	11.7 usft	**Northing:**	376,663.47 usft	**Latitude:**	32° 2' 3.740 N
	+E/-W	1,956.2 usft	**Easting:**	670,254.72 usft	**Longitude:**	103° 47' 2.090 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,186.0 usft

Wellbore	Wellbore #1				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	4/12/2022	6.51	59.79	47,311.65756079

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	179.60	

Plan Survey Tool Program **Date** 4/12/2022

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	24,887.2	BLM Plan #1 (Wellbore #1)	MWD	
				OWSG MWD - Standard	

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3214.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3214.5usft
Site:	Voni	**North Reference:**	Grid
Well:	Voni Fed Com #242H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,313.7	8.14	230.19	2,311.0	-36.9	-44.3	1.00	1.00	0.00	230.19	
3,009.7	8.14	230.19	3,000.0	-100.0	-120.0	0.00	0.00	0.00	0.00	
3,762.2	7.85	292.27	3,746.4	-114.6	-208.6	1.09	-0.04	8.25	122.48	
11,229.9	7.85	292.27	11,144.0	272.2	-1,153.0	0.00	0.00	0.00	0.00	
12,015.3	0.00	0.00	11,927.0	292.5	-1,202.7	1.00	-1.00	0.00	180.00	VP - Voni Fed Com #2
12,915.3	90.00	185.10	12,500.0	-278.2	-1,253.6	10.00	10.00	0.00	185.10	
13,182.7	90.00	179.75	12,500.0	-545.3	-1,265.0	2.00	0.00	-2.00	-90.00	
24,887.2	90.00	179.75	12,500.0	-12,249.6	-1,214.1	0.00	0.00	0.00	0.00	BHL - Voni Fed Com #

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3214.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3214.5usft
Site:	Voni	**North Reference:**	Grid
Well:	Voni Fed Com #242H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,185.7	0.00	0.00	1,185.7	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
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
1,368.2	0.00	0.00	1,368.2	0.0	0.0	0.0	0.00	0.00	0.00
Salado									
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
Start Build 1.00									
1,600.0	1.00	230.19	1,600.0	-0.6	-0.7	0.6	1.00	1.00	0.00
1,700.0	2.00	230.19	1,700.0	-2.2	-2.7	2.2	1.00	1.00	0.00
1,800.0	3.00	230.19	1,799.9	-5.0	-6.0	5.0	1.00	1.00	0.00
1,900.0	4.00	230.19	1,899.7	-8.9	-10.7	8.9	1.00	1.00	0.00
2,000.0	5.00	230.19	1,999.4	-14.0	-16.7	13.8	1.00	1.00	0.00
2,100.0	6.00	230.19	2,098.9	-20.1	-24.1	19.9	1.00	1.00	0.00
2,200.0	7.00	230.19	2,198.3	-27.3	-32.8	27.1	1.00	1.00	0.00
2,300.0	8.00	230.19	2,297.4	-35.7	-42.8	35.4	1.00	1.00	0.00
2,313.7	8.14	230.19	2,311.0	-36.9	-44.3	36.6	1.00	1.00	0.00
Start 696.0 hold at 2313.7 MD									
2,400.0	8.14	230.19	2,396.4	-44.7	-53.7	44.4	0.00	0.00	0.00
2,500.0	8.14	230.19	2,495.4	-53.8	-64.6	53.4	0.00	0.00	0.00
2,600.0	8.14	230.19	2,594.4	-62.9	-75.4	62.3	0.00	0.00	0.00
2,700.0	8.14	230.19	2,693.4	-71.9	-86.3	71.3	0.00	0.00	0.00
2,800.0	8.14	230.19	2,792.4	-81.0	-97.2	80.3	0.00	0.00	0.00
2,900.0	8.14	230.19	2,891.4	-90.1	-108.1	89.3	0.00	0.00	0.00
3,000.0	8.14	230.19	2,990.4	-99.1	-118.9	98.3	0.00	0.00	0.00
3,009.7	8.14	230.19	3,000.0	-100.0	-120.0	99.2	0.00	0.00	0.00
Start DLS 1.09 TFO 122.48									
3,100.0	7.65	236.46	3,089.4	-107.4	-129.9	106.5	1.09	-0.54	6.94
3,200.0	7.23	244.27	3,188.6	-113.8	-141.1	112.8	1.09	-0.42	7.81
3,300.0	6.96	252.86	3,287.8	-118.3	-152.6	117.3	1.09	-0.27	8.58
3,400.0	6.86	261.91	3,387.1	-121.0	-164.3	119.8	1.09	-0.11	9.06
3,500.0	6.93	271.02	3,486.4	-121.7	-176.2	120.5	1.09	0.07	9.11
3,600.0	7.16	279.74	3,585.6	-120.5	-188.4	119.2	1.09	0.23	8.72
3,700.0	7.55	287.74	3,684.8	-117.5	-200.8	116.1	1.09	0.39	8.00
3,762.2	7.85	292.27	3,746.4	-114.6	-208.6	113.2	1.09	0.49	7.28
Start 7467.7 hold at 3762.2 MD									
3,800.0	7.85	292.27	3,783.9	-112.7	-213.4	111.2	0.00	0.00	0.00
3,900.0	7.85	292.27	3,882.9	-107.5	-226.1	105.9	0.00	0.00	0.00
4,000.0	7.85	292.27	3,982.0	-102.3	-238.7	100.6	0.00	0.00	0.00
4,010.1	7.85	292.27	3,992.0	-101.8	-240.0	100.1	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3214.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3214.5usft
Site:	Voni	**North Reference:**	Grid
Well:	Voni Fed Com #242H	**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)
G30:CS14-CSB									
4,053.1	7.85	292.27	4,034.6	-99.6	-245.4	97.8	0.00	0.00	0.00
G26: Bell Cyn.									
4,100.0	7.85	292.27	4,081.1	-97.1	-251.4	95.4	0.00	0.00	0.00
4,200.0	7.85	292.27	4,180.1	-92.0	-264.0	90.1	0.00	0.00	0.00
4,300.0	7.85	292.27	4,279.2	-86.8	-276.6	84.8	0.00	0.00	0.00
4,400.0	7.85	292.27	4,378.2	-81.6	-289.3	79.6	0.00	0.00	0.00
4,500.0	7.85	292.27	4,477.3	-76.4	-301.9	74.3	0.00	0.00	0.00
4,600.0	7.85	292.27	4,576.4	-71.2	-314.6	69.0	0.00	0.00	0.00
4,700.0	7.85	292.27	4,675.4	-66.1	-327.2	63.8	0.00	0.00	0.00
4,800.0	7.85	292.27	4,774.5	-60.9	-339.9	58.5	0.00	0.00	0.00
4,900.0	7.85	292.27	4,873.6	-55.7	-352.5	53.2	0.00	0.00	0.00
5,000.0	7.85	292.27	4,972.6	-50.5	-365.2	48.0	0.00	0.00	0.00
5,070.9	7.85	292.27	5,042.8	-46.8	-374.1	44.2	0.00	0.00	0.00
G13: Cherry Cyn.									
5,100.0	7.85	292.27	5,071.7	-45.3	-377.8	42.7	0.00	0.00	0.00
5,200.0	7.85	292.27	5,170.7	-40.2	-390.5	37.4	0.00	0.00	0.00
5,300.0	7.85	292.27	5,269.8	-35.0	-403.1	32.2	0.00	0.00	0.00
5,400.0	7.85	292.27	5,368.9	-29.8	-415.8	26.9	0.00	0.00	0.00
5,500.0	7.85	292.27	5,467.9	-24.6	-428.4	21.6	0.00	0.00	0.00
5,600.0	7.85	292.27	5,567.0	-19.4	-441.0	16.4	0.00	0.00	0.00
5,700.0	7.85	292.27	5,666.0	-14.3	-453.7	11.1	0.00	0.00	0.00
5,800.0	7.85	292.27	5,765.1	-9.1	-466.3	5.8	0.00	0.00	0.00
5,900.0	7.85	292.27	5,864.2	-3.9	-479.0	0.6	0.00	0.00	0.00
6,000.0	7.85	292.27	5,963.2	1.3	-491.6	-4.7	0.00	0.00	0.00
6,100.0	7.85	292.27	6,062.3	6.5	-504.3	-10.0	0.00	0.00	0.00
6,200.0	7.85	292.27	6,161.4	11.6	-516.9	-15.2	0.00	0.00	0.00
6,293.1	7.85	292.27	6,253.5	16.5	-528.7	-20.1	0.00	0.00	0.00
G7: Brushy Cyn.									
6,300.0	7.85	292.27	6,260.4	16.8	-529.6	-20.5	0.00	0.00	0.00
6,400.0	7.85	292.27	6,359.5	22.0	-542.2	-25.8	0.00	0.00	0.00
6,500.0	7.85	292.27	6,458.5	27.2	-554.9	-31.0	0.00	0.00	0.00
6,600.0	7.85	292.27	6,557.6	32.4	-567.5	-36.3	0.00	0.00	0.00
6,700.0	7.85	292.27	6,656.7	37.5	-580.1	-41.6	0.00	0.00	0.00
6,800.0	7.85	292.27	6,755.7	42.7	-592.8	-46.8	0.00	0.00	0.00
6,900.0	7.85	292.27	6,854.8	47.9	-605.4	-52.1	0.00	0.00	0.00
7,000.0	7.85	292.27	6,953.9	53.1	-618.1	-57.4	0.00	0.00	0.00
7,100.0	7.85	292.27	7,052.9	58.2	-630.7	-62.7	0.00	0.00	0.00
7,200.0	7.85	292.27	7,152.0	63.4	-643.4	-67.9	0.00	0.00	0.00
7,300.0	7.85	292.27	7,251.0	68.6	-656.0	-73.2	0.00	0.00	0.00
7,400.0	7.85	292.27	7,350.1	73.8	-668.7	-78.5	0.00	0.00	0.00
7,500.0	7.85	292.27	7,449.2	79.0	-681.3	-83.7	0.00	0.00	0.00
7,600.0	7.85	292.27	7,548.2	84.1	-694.0	-89.0	0.00	0.00	0.00
7,700.0	7.85	292.27	7,647.3	89.3	-706.6	-94.3	0.00	0.00	0.00
7,800.0	7.85	292.27	7,746.3	94.5	-719.2	-99.5	0.00	0.00	0.00
7,900.0	7.85	292.27	7,845.4	99.7	-731.9	-104.8	0.00	0.00	0.00
8,000.0	7.85	292.27	7,944.5	104.9	-744.5	-110.1	0.00	0.00	0.00
8,008.5	7.85	292.27	7,952.9	105.3	-745.6	-110.5	0.00	0.00	0.00
G4: BSGL (CS9)									
8,100.0	7.85	292.27	8,043.5	110.0	-757.2	-115.3	0.00	0.00	0.00
8,200.0	7.85	292.27	8,142.6	115.2	-769.8	-120.6	0.00	0.00	0.00
8,300.0	7.85	292.27	8,241.7	120.4	-782.5	-125.9	0.00	0.00	0.00
8,400.0	7.85	292.27	8,340.7	125.6	-795.1	-131.1	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3214.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3214.5usft
Site:	Voni	**North Reference:**	Grid
Well:	Voni Fed Com #242H	**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)
8,500.0	7.85	292.27	8,439.8	130.8	-807.8	-136.4	0.00	0.00	0.00
8,600.0	7.85	292.27	8,538.8	135.9	-820.4	-141.7	0.00	0.00	0.00
8,700.0	7.85	292.27	8,637.9	141.1	-833.1	-146.9	0.00	0.00	0.00
8,800.0	7.85	292.27	8,737.0	146.3	-845.7	-152.2	0.00	0.00	0.00
8,900.0	7.85	292.27	8,836.0	151.5	-858.3	-157.5	0.00	0.00	0.00
8,949.2	7.85	292.27	8,884.7	154.0	-864.6	-160.1	0.00	0.00	0.00
L5.1: FBSG									
9,000.0	7.85	292.27	8,935.1	156.7	-871.0	-162.7	0.00	0.00	0.00
9,100.0	7.85	292.27	9,034.2	161.8	-883.6	-168.0	0.00	0.00	0.00
9,135.0	7.85	292.27	9,068.8	163.7	-888.1	-169.8	0.00	0.00	0.00
M. FBSG									
9,199.5	7.85	292.27	9,132.8	167.0	-896.2	-173.2	0.00	0.00	0.00
L. FBSG									
9,200.0	7.85	292.27	9,133.2	167.0	-896.3	-173.3	0.00	0.00	0.00
9,300.0	7.85	292.27	9,232.3	172.2	-908.9	-178.5	0.00	0.00	0.00
9,400.0	7.85	292.27	9,331.3	177.4	-921.6	-183.8	0.00	0.00	0.00
9,478.4	7.85	292.27	9,409.0	181.4	-931.5	-187.9	0.00	0.00	0.00
L4.3: SBSC									
9,500.0	7.85	292.27	9,430.4	182.6	-934.2	-189.1	0.00	0.00	0.00
9,600.0	7.85	292.27	9,529.5	187.7	-946.9	-194.3	0.00	0.00	0.00
9,633.7	7.85	292.27	9,562.8	189.5	-951.1	-196.1	0.00	0.00	0.00
L4.1: SBSG									
9,700.0	7.85	292.27	9,628.5	192.9	-959.5	-199.6	0.00	0.00	0.00
9,800.0	7.85	292.27	9,727.6	198.1	-972.2	-204.9	0.00	0.00	0.00
9,900.0	7.85	292.27	9,826.6	203.3	-984.8	-210.1	0.00	0.00	0.00
10,000.0	7.85	292.27	9,925.7	208.5	-997.4	-215.4	0.00	0.00	0.00
10,100.0	7.85	292.27	10,024.8	213.6	-1,010.1	-220.7	0.00	0.00	0.00
10,200.0	7.85	292.27	10,123.8	218.8	-1,022.7	-225.9	0.00	0.00	0.00
10,235.3	7.85	292.27	10,158.8	220.6	-1,027.2	-227.8	0.00	0.00	0.00
L3.3: TBSC									
10,300.0	7.85	292.27	10,222.9	224.0	-1,035.4	-231.2	0.00	0.00	0.00
10,400.0	7.85	292.27	10,322.0	229.2	-1,048.0	-236.5	0.00	0.00	0.00
10,428.4	7.85	292.27	10,350.1	230.6	-1,051.6	-238.0	0.00	0.00	0.00
L3.3.2: Break Sand (T)									
10,463.1	7.85	292.27	10,384.4	232.4	-1,056.0	-239.8	0.00	0.00	0.00
L3.3.1: Break Sand (B)									
10,500.0	7.85	292.27	10,421.0	234.4	-1,060.7	-241.8	0.00	0.00	0.00
10,600.0	7.85	292.27	10,520.1	239.5	-1,073.3	-247.0	0.00	0.00	0.00
10,632.1	7.85	292.27	10,551.9	241.2	-1,077.4	-248.7	0.00	0.00	0.00
Lower TBSC									
10,700.0	7.85	292.27	10,619.1	244.7	-1,086.0	-252.3	0.00	0.00	0.00
10,729.3	7.85	292.27	10,648.2	246.2	-1,089.7	-253.8	0.00	0.00	0.00
L3.2: TBSH									
10,800.0	7.85	292.27	10,718.2	249.9	-1,098.6	-257.6	0.00	0.00	0.00
10,896.0	7.85	292.27	10,813.3	254.9	-1,110.8	-262.6	0.00	0.00	0.00
L3.1: TBSG									
10,900.0	7.85	292.27	10,817.3	255.1	-1,111.3	-262.8	0.00	0.00	0.00
11,000.0	7.85	292.27	10,916.3	260.3	-1,123.9	-268.1	0.00	0.00	0.00
11,100.0	7.85	292.27	11,015.4	265.4	-1,136.6	-273.4	0.00	0.00	0.00
11,200.0	7.85	292.27	11,114.5	270.6	-1,149.2	-278.6	0.00	0.00	0.00
11,229.9	7.85	292.27	11,144.0	272.2	-1,153.0	-280.2	0.00	0.00	0.00
Start Drop -1.00									

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3214.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3214.5usft
Site:	Voni	**North Reference:**	Grid
Well:	Voni Fed Com #242H	**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)
11,281.4	7.34	292.27	11,195.1	274.7	-1,159.3	-282.8	1.00	-1.00	0.00
L2: WFMP A									
11,300.0	7.15	292.27	11,213.6	275.6	-1,161.4	-283.7	1.00	-1.00	0.00
11,400.0	6.15	292.27	11,312.9	280.0	-1,172.2	-288.2	1.00	-1.00	0.00
11,500.0	5.15	292.27	11,412.4	283.8	-1,181.3	-292.0	1.00	-1.00	0.00
11,554.7	4.61	292.27	11,466.9	285.5	-1,185.6	-293.8	1.00	-1.00	0.00
WFMP A Fat									
11,600.0	4.15	292.27	11,512.1	286.8	-1,188.8	-295.1	1.00	-1.00	0.00
11,700.0	3.15	292.27	11,611.9	289.2	-1,194.7	-297.6	1.00	-1.00	0.00
11,800.0	2.15	292.27	11,711.8	291.0	-1,199.0	-299.4	1.00	-1.00	0.00
11,849.3	1.66	292.27	11,761.0	291.6	-1,200.5	-300.0	1.00	-1.00	0.00
WFMP B									
11,900.0	1.15	292.27	11,811.7	292.1	-1,201.6	-300.5	1.00	-1.00	0.00
12,000.0	0.15	292.27	11,911.7	292.5	-1,202.7	-300.9	1.00	-1.00	0.00
12,015.3	0.00	0.00	11,927.0	292.5	-1,202.7	-300.9	1.00	-1.00	0.00
Start Build 10.00 - VP - Voni Fed Com #242H									
12,056.9	4.16	185.10	11,968.6	291.0	-1,202.8	-299.4	10.00	10.00	0.00
WFMP B.1									
12,100.0	8.47	185.10	12,011.4	286.3	-1,203.3	-294.7	10.00	10.00	0.00
12,200.0	18.47	185.10	12,108.5	263.1	-1,205.3	-271.5	10.00	10.00	0.00
12,254.5	23.93	185.10	12,159.4	243.5	-1,207.1	-251.9	10.00	10.00	0.00
WFMP B.2									
12,300.0	28.47	185.10	12,200.1	223.5	-1,208.9	-231.9	10.00	10.00	0.00
12,400.0	38.47	185.10	12,283.5	168.6	-1,213.8	-177.1	10.00	10.00	0.00
12,500.0	48.47	185.10	12,355.9	100.2	-1,219.9	-108.7	10.00	10.00	0.00
12,576.4	56.11	185.10	12,402.6	40.1	-1,225.2	-48.6	10.00	10.00	0.00
WFMP B.3									
12,600.0	58.47	185.10	12,415.4	20.3	-1,227.0	-28.8	10.00	10.00	0.00
12,700.0	68.47	185.10	12,460.0	-68.7	-1,235.0	60.1	10.00	10.00	0.00
12,800.0	78.47	185.10	12,488.4	-164.1	-1,243.5	155.4	10.00	10.00	0.00
12,900.0	88.47	185.10	12,499.8	-262.9	-1,252.3	254.2	10.00	10.00	0.00
12,915.3	90.00	185.10	12,500.0	-278.2	-1,253.6	269.4	10.00	10.00	0.00
Start DLS 2.00 TFO -90.00									
13,000.0	90.00	183.41	12,500.0	-362.6	-1,259.9	353.8	2.00	0.00	-2.00
13,100.0	90.00	181.41	12,500.0	-462.5	-1,264.1	453.7	2.00	0.00	-2.00
13,182.7	90.00	179.75	12,500.0	-545.3	-1,265.0	536.4	2.00	0.00	-2.00
Start 11704.5 hold at 13182.7 MD									
13,200.0	90.00	179.75	12,500.0	-562.5	-1,264.9	553.7	0.00	0.00	0.00
13,300.0	90.00	179.75	12,500.0	-662.5	-1,264.4	653.7	0.00	0.00	0.00
13,400.0	90.00	179.75	12,500.0	-762.5	-1,264.0	753.7	0.00	0.00	0.00
13,500.0	90.00	179.75	12,500.0	-862.5	-1,263.6	853.7	0.00	0.00	0.00
13,600.0	90.00	179.75	12,500.0	-962.5	-1,263.1	953.7	0.00	0.00	0.00
13,700.0	90.00	179.75	12,500.0	-1,062.5	-1,262.7	1,053.7	0.00	0.00	0.00
13,800.0	90.00	179.75	12,500.0	-1,162.5	-1,262.3	1,153.7	0.00	0.00	0.00
13,900.0	90.00	179.75	12,500.0	-1,262.5	-1,261.8	1,253.7	0.00	0.00	0.00
14,000.0	90.00	179.75	12,500.0	-1,362.5	-1,261.4	1,353.7	0.00	0.00	0.00
14,100.0	90.00	179.75	12,500.0	-1,462.5	-1,261.0	1,453.7	0.00	0.00	0.00
14,200.0	90.00	179.75	12,500.0	-1,562.5	-1,260.5	1,553.7	0.00	0.00	0.00
14,300.0	90.00	179.75	12,500.0	-1,662.5	-1,260.1	1,653.7	0.00	0.00	0.00
14,400.0	90.00	179.75	12,500.0	-1,762.5	-1,259.7	1,753.7	0.00	0.00	0.00
14,500.0	90.00	179.75	12,500.0	-1,862.5	-1,259.2	1,853.7	0.00	0.00	0.00
14,600.0	90.00	179.75	12,500.0	-1,962.5	-1,258.8	1,953.7	0.00	0.00	0.00
14,700.0	90.00	179.75	12,500.0	-2,062.5	-1,258.4	2,053.7	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3214.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3214.5usft
Site:	Voni	**North Reference:**	Grid
Well:	Voni Fed Com #242H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,800.0	90.00	179.75	12,500.0	-2,162.5	-1,257.9	2,153.7	0.00	0.00	0.00
14,900.0	90.00	179.75	12,500.0	-2,262.5	-1,257.5	2,253.7	0.00	0.00	0.00
15,000.0	90.00	179.75	12,500.0	-2,362.5	-1,257.1	2,353.7	0.00	0.00	0.00
15,100.0	90.00	179.75	12,500.0	-2,462.5	-1,256.6	2,453.7	0.00	0.00	0.00
15,200.0	90.00	179.75	12,500.0	-2,562.5	-1,256.2	2,553.7	0.00	0.00	0.00
15,300.0	90.00	179.75	12,500.0	-2,662.5	-1,255.8	2,653.7	0.00	0.00	0.00
15,400.0	90.00	179.75	12,500.0	-2,762.5	-1,255.3	2,753.7	0.00	0.00	0.00
15,500.0	90.00	179.75	12,500.0	-2,862.5	-1,254.9	2,853.7	0.00	0.00	0.00
15,600.0	90.00	179.75	12,500.0	-2,962.5	-1,254.5	2,953.7	0.00	0.00	0.00
15,700.0	90.00	179.75	12,500.0	-3,062.5	-1,254.0	3,053.7	0.00	0.00	0.00
15,800.0	90.00	179.75	12,500.0	-3,162.5	-1,253.6	3,153.7	0.00	0.00	0.00
15,900.0	90.00	179.75	12,500.0	-3,262.5	-1,253.1	3,253.7	0.00	0.00	0.00
16,000.0	90.00	179.75	12,500.0	-3,362.5	-1,252.7	3,353.7	0.00	0.00	0.00
16,100.0	90.00	179.75	12,500.0	-3,462.5	-1,252.3	3,453.7	0.00	0.00	0.00
16,200.0	90.00	179.75	12,500.0	-3,562.5	-1,251.8	3,553.7	0.00	0.00	0.00
16,300.0	90.00	179.75	12,500.0	-3,662.5	-1,251.4	3,653.7	0.00	0.00	0.00
16,400.0	90.00	179.75	12,500.0	-3,762.5	-1,251.0	3,753.7	0.00	0.00	0.00
16,500.0	90.00	179.75	12,500.0	-3,862.5	-1,250.5	3,853.7	0.00	0.00	0.00
16,600.0	90.00	179.75	12,500.0	-3,962.5	-1,250.1	3,953.7	0.00	0.00	0.00
16,700.0	90.00	179.75	12,500.0	-4,062.5	-1,249.7	4,053.7	0.00	0.00	0.00
16,800.0	90.00	179.75	12,500.0	-4,162.5	-1,249.2	4,153.7	0.00	0.00	0.00
16,900.0	90.00	179.75	12,500.0	-4,262.5	-1,248.8	4,253.7	0.00	0.00	0.00
17,000.0	90.00	179.75	12,500.0	-4,362.5	-1,248.4	4,353.7	0.00	0.00	0.00
17,100.0	90.00	179.75	12,500.0	-4,462.5	-1,247.9	4,453.7	0.00	0.00	0.00
17,200.0	90.00	179.75	12,500.0	-4,562.5	-1,247.5	4,553.7	0.00	0.00	0.00
17,300.0	90.00	179.75	12,500.0	-4,662.5	-1,247.1	4,653.7	0.00	0.00	0.00
17,400.0	90.00	179.75	12,500.0	-4,762.5	-1,246.6	4,753.7	0.00	0.00	0.00
17,500.0	90.00	179.75	12,500.0	-4,862.5	-1,246.2	4,853.7	0.00	0.00	0.00
17,600.0	90.00	179.75	12,500.0	-4,962.5	-1,245.8	4,953.7	0.00	0.00	0.00
17,700.0	90.00	179.75	12,500.0	-5,062.5	-1,245.3	5,053.7	0.00	0.00	0.00
17,800.0	90.00	179.75	12,500.0	-5,162.5	-1,244.9	5,153.7	0.00	0.00	0.00
17,900.0	90.00	179.75	12,500.0	-5,262.5	-1,244.5	5,253.7	0.00	0.00	0.00
18,000.0	90.00	179.75	12,500.0	-5,362.5	-1,244.0	5,353.7	0.00	0.00	0.00
18,100.0	90.00	179.75	12,500.0	-5,462.5	-1,243.6	5,453.7	0.00	0.00	0.00
18,200.0	90.00	179.75	12,500.0	-5,562.5	-1,243.2	5,553.7	0.00	0.00	0.00
18,300.0	90.00	179.75	12,500.0	-5,662.5	-1,242.7	5,653.7	0.00	0.00	0.00
18,400.0	90.00	179.75	12,500.0	-5,762.5	-1,242.3	5,753.7	0.00	0.00	0.00
18,500.0	90.00	179.75	12,500.0	-5,862.5	-1,241.8	5,853.7	0.00	0.00	0.00
18,600.0	90.00	179.75	12,500.0	-5,962.5	-1,241.4	5,953.7	0.00	0.00	0.00
18,700.0	90.00	179.75	12,500.0	-6,062.5	-1,241.0	6,053.7	0.00	0.00	0.00
18,800.0	90.00	179.75	12,500.0	-6,162.5	-1,240.5	6,153.7	0.00	0.00	0.00
18,900.0	90.00	179.75	12,500.0	-6,262.5	-1,240.1	6,253.7	0.00	0.00	0.00
19,000.0	90.00	179.75	12,500.0	-6,362.5	-1,239.7	6,353.7	0.00	0.00	0.00
19,100.0	90.00	179.75	12,500.0	-6,462.5	-1,239.2	6,453.7	0.00	0.00	0.00
19,200.0	90.00	179.75	12,500.0	-6,562.5	-1,238.8	6,553.7	0.00	0.00	0.00
19,300.0	90.00	179.75	12,500.0	-6,662.5	-1,238.4	6,653.7	0.00	0.00	0.00
19,400.0	90.00	179.75	12,500.0	-6,762.5	-1,237.9	6,753.7	0.00	0.00	0.00
19,500.0	90.00	179.75	12,500.0	-6,862.5	-1,237.5	6,853.7	0.00	0.00	0.00
19,600.0	90.00	179.75	12,500.0	-6,962.5	-1,237.1	6,953.7	0.00	0.00	0.00
19,700.0	90.00	179.75	12,500.0	-7,062.5	-1,236.6	7,053.7	0.00	0.00	0.00
19,800.0	90.00	179.75	12,500.0	-7,162.5	-1,236.2	7,153.7	0.00	0.00	0.00
19,900.0	90.00	179.75	12,500.0	-7,262.5	-1,235.8	7,253.7	0.00	0.00	0.00
20,000.0	90.00	179.75	12,500.0	-7,362.5	-1,235.3	7,353.7	0.00	0.00	0.00
20,100.0	90.00	179.75	12,500.0	-7,462.5	-1,234.9	7,453.7	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3214.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3214.5usft
Site:	Voni	**North Reference:**	Grid
Well:	Voni Fed Com #242H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,200.0	90.00	179.75	12,500.0	-7,562.5	-1,234.5	7,553.7	0.00	0.00	0.00
20,300.0	90.00	179.75	12,500.0	-7,662.5	-1,234.0	7,653.7	0.00	0.00	0.00
20,400.0	90.00	179.75	12,500.0	-7,762.5	-1,233.6	7,753.7	0.00	0.00	0.00
20,500.0	90.00	179.75	12,500.0	-7,862.5	-1,233.2	7,853.7	0.00	0.00	0.00
20,600.0	90.00	179.75	12,500.0	-7,962.5	-1,232.7	7,953.7	0.00	0.00	0.00
20,700.0	90.00	179.75	12,500.0	-8,062.5	-1,232.3	8,053.7	0.00	0.00	0.00
20,800.0	90.00	179.75	12,500.0	-8,162.5	-1,231.9	8,153.7	0.00	0.00	0.00
20,900.0	90.00	179.75	12,500.0	-8,262.5	-1,231.4	8,253.7	0.00	0.00	0.00
21,000.0	90.00	179.75	12,500.0	-8,362.5	-1,231.0	8,353.7	0.00	0.00	0.00
21,100.0	90.00	179.75	12,500.0	-8,462.5	-1,230.5	8,453.7	0.00	0.00	0.00
21,200.0	90.00	179.75	12,500.0	-8,562.5	-1,230.1	8,553.7	0.00	0.00	0.00
21,300.0	90.00	179.75	12,500.0	-8,662.5	-1,229.7	8,653.7	0.00	0.00	0.00
21,400.0	90.00	179.75	12,500.0	-8,762.5	-1,229.2	8,753.7	0.00	0.00	0.00
21,500.0	90.00	179.75	12,500.0	-8,862.5	-1,228.8	8,853.7	0.00	0.00	0.00
21,600.0	90.00	179.75	12,500.0	-8,962.5	-1,228.4	8,953.7	0.00	0.00	0.00
21,700.0	90.00	179.75	12,500.0	-9,062.5	-1,227.9	9,053.7	0.00	0.00	0.00
21,800.0	90.00	179.75	12,500.0	-9,162.5	-1,227.5	9,153.7	0.00	0.00	0.00
21,900.0	90.00	179.75	12,500.0	-9,262.5	-1,227.1	9,253.7	0.00	0.00	0.00
22,000.0	90.00	179.75	12,500.0	-9,362.5	-1,226.6	9,353.7	0.00	0.00	0.00
22,100.0	90.00	179.75	12,500.0	-9,462.5	-1,226.2	9,453.7	0.00	0.00	0.00
22,200.0	90.00	179.75	12,500.0	-9,562.5	-1,225.8	9,553.7	0.00	0.00	0.00
22,300.0	90.00	179.75	12,500.0	-9,662.5	-1,225.3	9,653.7	0.00	0.00	0.00
22,400.0	90.00	179.75	12,500.0	-9,762.5	-1,224.9	9,753.7	0.00	0.00	0.00
22,500.0	90.00	179.75	12,500.0	-9,862.5	-1,224.5	9,853.7	0.00	0.00	0.00
22,600.0	90.00	179.75	12,500.0	-9,962.4	-1,224.0	9,953.7	0.00	0.00	0.00
22,700.0	90.00	179.75	12,500.0	-10,062.4	-1,223.6	10,053.7	0.00	0.00	0.00
22,800.0	90.00	179.75	12,500.0	-10,162.4	-1,223.2	10,153.7	0.00	0.00	0.00
22,900.0	90.00	179.75	12,500.0	-10,262.4	-1,222.7	10,253.7	0.00	0.00	0.00
23,000.0	90.00	179.75	12,500.0	-10,362.4	-1,222.3	10,353.7	0.00	0.00	0.00
23,100.0	90.00	179.75	12,500.0	-10,462.4	-1,221.9	10,453.7	0.00	0.00	0.00
23,200.0	90.00	179.75	12,500.0	-10,562.4	-1,221.4	10,553.7	0.00	0.00	0.00
23,300.0	90.00	179.75	12,500.0	-10,662.4	-1,221.0	10,653.7	0.00	0.00	0.00
23,400.0	90.00	179.75	12,500.0	-10,762.4	-1,220.6	10,753.7	0.00	0.00	0.00
23,500.0	90.00	179.75	12,500.0	-10,862.4	-1,220.1	10,853.7	0.00	0.00	0.00
23,600.0	90.00	179.75	12,500.0	-10,962.4	-1,219.7	10,953.7	0.00	0.00	0.00
23,700.0	90.00	179.75	12,500.0	-11,062.4	-1,219.2	11,053.7	0.00	0.00	0.00
23,800.0	90.00	179.75	12,500.0	-11,162.4	-1,218.8	11,153.7	0.00	0.00	0.00
23,900.0	90.00	179.75	12,500.0	-11,262.4	-1,218.4	11,253.7	0.00	0.00	0.00
24,000.0	90.00	179.75	12,500.0	-11,362.4	-1,217.9	11,353.7	0.00	0.00	0.00
24,100.0	90.00	179.75	12,500.0	-11,462.4	-1,217.5	11,453.7	0.00	0.00	0.00
24,200.0	90.00	179.75	12,500.0	-11,562.4	-1,217.1	11,553.7	0.00	0.00	0.00
24,300.0	90.00	179.75	12,500.0	-11,662.4	-1,216.6	11,653.7	0.00	0.00	0.00
24,400.0	90.00	179.75	12,500.0	-11,762.4	-1,216.2	11,753.7	0.00	0.00	0.00
24,500.0	90.00	179.75	12,500.0	-11,862.4	-1,215.8	11,853.7	0.00	0.00	0.00
24,600.0	90.00	179.75	12,500.0	-11,962.4	-1,215.3	11,953.7	0.00	0.00	0.00
24,700.0	90.00	179.75	12,500.0	-12,062.4	-1,214.9	12,053.7	0.00	0.00	0.00
24,800.0	90.00	179.75	12,500.0	-12,162.4	-1,214.5	12,153.7	0.00	0.00	0.00
24,887.2	90.00	179.75	12,500.0	-12,249.6	-1,214.1	12,240.8	0.00	0.00	0.00
TD at 24887.2 - BHL - Voni Fed Com #242H									

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3214.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3214.5usft
Site:	Voni	**North Reference:**	Grid
Well:	Voni Fed Com #242H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
VP - Voni Fed Com #24 - plan hits target center - Point	0.00	0.00	11,927.0	292.5	-1,202.7	376,956.00	669,052.00	32° 2' 6.695 N	103° 47' 16.044 W
BHL - Voni Fed Com #2 - plan hits target center - Point	0.00	0.00	12,500.0	-12,249.6	-1,214.1	364,412.14	669,040.46	32° 0' 2.558 N	103° 47' 16.914 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,185.7	1,185.7	Rustler			
1,368.2	1,368.2	Salado			
4,010.1	3,992.0	G30:CS14-CSB			
4,053.1	4,034.6	G26: Bell Cyn.			
5,070.9	5,042.8	G13: Cherry Cyn.			
6,293.1	6,253.5	G7: Brushy Cyn.			
8,008.5	7,952.9	G4: BSGL (CS9)			
8,949.2	8,884.7	L5.1: FBSG			
9,135.0	9,068.8	M. FBSG			
9,199.5	9,132.8	L. FBSG			
9,478.4	9,409.0	L4.3: SBSC			
9,633.7	9,562.8	L4.1: SBSG			
10,235.3	10,158.8	L3.3: TBSC			
10,428.4	10,350.1	L3.3.2: Break Sand (T)			
10,463.1	10,384.4	L3.3.1: Break Sand (B)			
10,632.1	10,551.9	Lower TBSC			
10,729.3	10,648.2	L3.2: TBSH			
10,896.0	10,813.3	L3.1: TBSG			
11,281.4	11,195.1	L2: WFMP A			
11,554.7	11,466.9	WFMP A Fat			
11,849.3	11,761.0	WFMP B			
12,056.9	11,968.6	WFMP B.1			
12,254.5	12,159.4	WFMP B.2			
12,576.4	12,402.6	WFMP B.3			

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3214.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3214.5usft
Site:	Voni	**North Reference:**	Grid
Well:	Voni Fed Com #242H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,500.0	1,500.0	0.0	0.0	Start Build 1.00
2,313.7	2,311.0	-36.9	-44.3	Start 696.0 hold at 2313.7 MD
3,009.7	3,000.0	-100.0	-120.0	Start DLS 1.09 TFO 122.48
3,762.2	3,746.4	-114.6	-208.6	Start 7467.7 hold at 3762.2 MD
11,229.9	11,144.0	272.2	-1,153.0	Start Drop -1.00
12,015.3	11,927.0	292.5	-1,202.7	Start Build 10.00
12,915.3	12,500.0	-278.2	-1,253.6	Start DLS 2.00 TFO -90.00
13,182.7	12,500.0	-545.3	-1,265.0	Start 11704.5 hold at 13182.7 MD
24,887.2	12,500.0	-12,249.6	-1,214.1	TD at 24887.2

Matador Production Company

Rustler Breaks
Voni
Voni Fed Com #242H

Wellbore #1
BLM Plan #1

Anticollision Report

12 April, 2022

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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** 4/12/2022

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	24,887.2	BLM Plan #1 (Wellbore #1)	MWD	OWSG MWD - Standard

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Voni						
Voni Fed Com #112H - Wellbore #1 - Actual Surveys	1,096.6	1,096.7	50.3	42.9	6.736	CC
Voni Fed Com #112H - Wellbore #1 - Actual Surveys	10,213.6	10,230.4	82.4	8.4	1.114	Level 2, ES, SF
Voni Fed Com #122H - Wellbore #1 - Actual	3,897.2	3,877.3	126.6	99.6	4.683	CC
Voni Fed Com #122H - Wellbore #1 - Actual	3,900.0	3,880.0	126.6	99.5	4.680	ES
Voni Fed Com #122H - Wellbore #1 - Actual	4,000.0	3,978.4	127.8	100.1	4.613	SF
Voni Fed Com #132H - Wellbore #1 - Actual Surveys	1,357.3	1,357.5	93.3	84.0	10.057	CC
Voni Fed Com #132H - Wellbore #1 - Actual Surveys	1,400.0	1,399.4	93.5	84.0	9.767	ES
Voni Fed Com #132H - Wellbore #1 - Actual Surveys	7,000.0	6,977.8	372.7	322.0	7.346	SF
Voni Fed Com #202H - Wellbore #1 - Actual	0.0	1.0	200.0			
Voni Fed Com #202H - Wellbore #1 - Actual	7,300.0	7,287.0	233.1	179.8	4.375	ES
Voni Fed Com #202H - Wellbore #1 - Actual	7,500.0	7,483.4	236.5	182.0	4.334	SF
Voni Fed Com #215H - Wellbore #1 - Actual	11,368.8	11,322.7	155.9	75.2	1.931	CC, ES, SF
Voni Fed Com #216H - Wellbore #1 - Actual	2,799.4	2,789.8	90.4	71.1	4.692	CC
Voni Fed Com #216H - Wellbore #1 - Actual	2,800.0	2,790.5	90.4	71.1	4.691	ES
Voni Fed Com #216H - Wellbore #1 - Actual	3,900.0	3,883.9	99.8	72.9	3.707	SF
Voni Fed Com #222H - Wellbore #1 - Actual Survey	3,824.3	3,806.1	82.1	55.0	3.023	CC, ES
Voni Fed Com #222H - Wellbore #1 - Actual Survey	9,100.0	9,108.8	143.8	75.0	2.092	SF
Voni Fed Com #226H - Wellbore #1 - Blm Plan #1	1,866.0	1,865.6	23.8	11.0	1.856	CC
Voni Fed Com #226H - Wellbore #1 - Blm Plan #1	1,900.0	1,900.5	24.0	10.9	1.837	ES, SF

Offset Design Voni - Voni Fed Com #112H - Wellbore #1 - Actual Surveys

Survey Program: 29-MWD

Offset Site Error: 0.0 usft

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.46	-0.5	-60.1	60.1				
100.0	100.0	100.0	100.0	0.1	0.3	-90.39	-0.4	-60.1	60.1	59.7	0.38	156.360	
200.0	200.0	199.9	199.9	0.5	0.6	-90.04	0.0	-60.2	60.2	59.1	1.10	54.658	
300.0	300.0	300.1	300.1	0.8	1.0	-89.66	0.4	-60.2	60.2	58.4	1.82	33.150	
400.0	400.0	400.7	400.7	1.2	1.3	-89.23	0.8	-59.4	59.4	56.9	2.53	23.487	
500.0	500.0	500.8	500.8	1.6	1.7	-88.34	1.7	-58.3	58.3	55.0	3.24	17.980	
600.0	600.0	601.0	601.0	1.9	2.0	-87.87	2.1	-56.6	56.6	52.7	3.95	14.320	
700.0	700.0	700.7	700.6	2.3	2.4	-87.96	2.0	-55.1	55.2	50.5	4.66	11.842	
800.0	800.0	800.8	800.7	2.6	2.7	-87.97	1.9	-54.1	54.1	48.8	5.37	10.079	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #112H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 29-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
900.0	900.0	900.8	900.7	3.0	3.1	-88.03	1.8	-52.6	52.6	46.5	6.08	8.646	
1,000.0	1,000.0	1,000.8	1,000.8	3.4	3.4	-88.67	1.2	-51.3	51.3	44.5	6.79	7.555	
1,096.6	1,096.6	1,096.7	1,096.6	3.7	3.8	-89.18	0.7	-50.3	50.3	42.9	7.47	6.736	CC
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.8	-89.17	0.7	-50.3	50.3	42.8	7.50	6.715	
1,200.0	1,200.0	1,198.8	1,198.7	4.1	4.1	-87.72	2.1	-51.5	51.6	43.4	8.19	6.299	
1,300.0	1,300.0	1,297.8	1,297.6	4.4	4.5	-84.18	5.6	-54.9	55.2	46.3	8.89	6.209	
1,400.0	1,400.0	1,396.8	1,396.4	4.8	4.8	-80.04	10.4	-59.3	60.3	50.7	9.59	6.292	
1,500.0	1,500.0	1,495.6	1,494.9	5.1	5.2	-76.56	15.6	-65.1	67.1	56.8	10.28	6.530	
1,600.0	1,600.0	1,594.8	1,593.7	5.5	5.5	56.01	20.3	-72.1	74.7	63.8	10.96	6.817	
1,700.0	1,700.0	1,694.6	1,693.1	5.8	5.9	59.18	25.0	-79.5	81.8	70.1	11.64	7.025	
1,800.0	1,799.9	1,792.3	1,790.4	6.2	6.2	62.59	29.7	-87.6	89.1	76.8	12.30	7.248	
1,900.0	1,899.7	1,889.2	1,886.6	6.5	6.6	66.11	35.0	-97.9	98.5	85.6	12.94	7.611	
2,000.0	1,999.4	1,986.6	1,982.9	6.8	6.9	68.73	39.6	-111.2	109.8	96.2	13.60	8.073	
2,100.0	2,098.9	2,085.4	2,080.5	7.2	7.3	70.50	42.7	-126.7	121.7	107.4	14.29	8.511	
2,200.0	2,198.3	2,184.6	2,178.3	7.5	7.7	72.25	45.0	-142.8	133.2	118.2	15.00	8.877	
2,300.0	2,297.4	2,283.4	2,275.7	7.9	8.1	74.12	46.9	-159.4	144.5	128.8	15.72	9.192	
2,313.7	2,311.0	2,296.8	2,288.9	8.0	8.2	74.41	47.3	-161.6	146.1	130.3	15.82	9.234	
2,400.0	2,396.4	2,381.4	2,372.3	8.3	8.5	76.48	49.9	-175.8	156.3	139.9	16.44	9.508	
2,500.0	2,495.4	2,480.0	2,469.5	8.7	8.9	78.93	54.1	-192.0	169.0	151.8	17.19	9.831	
2,600.0	2,594.4	2,580.1	2,568.2	9.0	9.3	81.32	58.8	-207.7	181.6	163.7	17.96	10.112	
2,700.0	2,693.4	2,681.4	2,668.2	9.4	9.7	83.51	63.1	-222.8	193.7	174.9	18.76	10.325	
2,800.0	2,792.4	2,783.5	2,769.4	9.8	10.1	85.65	67.0	-236.6	204.6	185.0	19.56	10.458	
2,900.0	2,891.4	2,881.6	2,866.7	10.2	10.5	87.71	70.6	-248.5	214.8	194.5	20.33	10.568	
3,009.7	3,000.0	2,988.0	2,972.0	10.6	11.0	89.53	75.1	-263.1	227.8	206.7	21.16	10.769	
3,100.0	3,089.4	3,074.8	3,057.8	11.0	11.3	84.54	79.0	-275.7	238.8	216.9	21.83	10.937	
3,200.0	3,188.6	3,172.2	3,153.7	11.4	11.7	77.41	83.3	-291.9	250.6	228.0	22.59	11.093	
3,300.0	3,287.8	3,274.5	3,254.4	11.8	12.2	69.20	87.5	-309.1	260.7	237.3	23.41	11.138	
3,400.0	3,387.1	3,373.2	3,351.8	12.2	12.6	60.35	91.3	-325.0	268.5	244.3	24.18	11.107	
3,500.0	3,486.4	3,469.7	3,446.8	12.5	13.0	51.03	95.0	-341.8	275.6	250.7	24.91	11.063	
3,600.0	3,585.6	3,572.9	3,548.3	12.9	13.5	41.94	99.3	-359.6	281.1	255.4	25.72	10.929	
3,700.0	3,684.8	3,676.3	3,650.4	13.3	13.9	33.56	103.1	-375.8	283.6	257.1	26.52	10.694	
3,762.2	3,746.4	3,737.6	3,710.9	13.5	14.2	28.66	105.0	-385.4	284.2	257.2	26.98	10.532	
3,800.0	3,783.9	3,774.6	3,747.4	13.7	14.3	28.34	106.1	-391.4	284.4	257.2	27.25	10.436	
3,900.0	3,882.9	3,872.8	3,844.1	14.1	14.8	27.56	109.7	-407.6	285.7	257.7	27.98	10.211	
4,000.0	3,982.0	3,974.4	3,944.4	14.4	15.2	26.94	113.7	-423.4	286.7	258.0	28.75	9.972	
4,100.0	4,081.1	4,070.0	4,038.7	14.8	15.6	26.44	118.1	-438.3	288.2	258.8	29.45	9.788	
4,200.0	4,180.1	4,164.0	4,131.2	15.2	16.0	25.93	123.9	-454.5	292.0	261.9	30.12	9.697	
4,300.0	4,279.2	4,264.4	4,229.8	15.6	16.5	25.48	130.9	-471.8	296.5	265.6	30.87	9.603	
4,400.0	4,378.2	4,366.2	4,329.9	16.0	16.9	25.11	137.9	-488.9	300.6	269.0	31.65	9.497	
4,500.0	4,477.3	4,466.7	4,428.6	16.4	17.4	24.37	143.0	-506.8	304.1	271.7	32.41	9.383	
4,600.0	4,576.4	4,569.6	4,529.7	16.8	17.8	23.37	147.2	-526.1	307.7	274.5	33.19	9.271	
4,700.0	4,675.4	4,676.0	4,634.6	17.1	18.3	22.72	151.4	-543.1	309.1	275.1	34.00	9.091	
4,800.0	4,774.5	4,778.8	4,736.3	17.5	18.7	22.17	154.7	-558.2	309.2	274.4	34.77	8.892	
4,900.0	4,873.6	4,880.3	4,836.7	17.9	19.2	21.68	157.6	-572.5	308.7	273.1	35.53	8.688	
4,980.3	4,953.1	4,958.3	4,913.8	18.2	19.5	21.34	160.1	-583.4	308.3	272.2	36.10	8.540	
5,000.0	4,972.6	4,977.3	4,932.6	18.3	19.6	21.25	160.7	-586.1	308.3	272.1	36.24	8.508	
5,100.0	5,071.7	5,073.7	5,027.9	18.7	20.0	20.76	164.4	-600.7	309.1	272.2	36.94	8.369	
5,200.0	5,170.7	5,174.5	5,127.4	19.1	20.4	20.21	168.3	-616.4	310.5	272.8	37.69	8.238	
5,300.0	5,269.8	5,277.2	5,228.8	19.5	20.9	19.70	172.1	-631.8	311.2	272.7	38.45	8.093	
5,400.0	5,368.9	5,371.6	5,322.1	19.9	21.3	19.26	176.0	-646.3	312.5	273.4	39.13	7.987	
5,500.0	5,467.9	5,468.8	5,417.8	20.3	21.7	18.79	180.7	-662.1	315.1	275.3	39.83	7.911	
5,600.0	5,567.0	5,569.5	5,517.0	20.7	22.2	18.30	185.8	-678.8	318.1	277.5	40.58	7.838	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #112H - Wellbore #1 - Actual Surveys — **Offset Site Error:** 0.0 usft

Survey Program: 29-MWD — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,700.0	5,666.0	5,672.5	5,618.6	21.1	22.6	17.82	190.7	-695.3	320.4	279.0	41.36	7.747	
5,800.0	5,765.1	5,775.4	5,720.2	21.5	23.1	17.43	195.2	-710.8	321.7	279.6	42.13	7.637	
5,900.0	5,864.2	5,872.1	5,815.8	21.9	23.5	17.08	199.3	-725.0	322.7	279.9	42.83	7.534	
6,000.0	5,963.2	5,964.1	5,906.3	22.3	23.9	16.57	203.7	-740.8	326.1	282.6	43.45	7.504	
6,100.0	6,062.3	6,061.8	6,002.1	22.7	24.4	15.96	209.1	-759.1	331.1	286.9	44.15	7.499	
6,200.0	6,161.4	6,164.6	6,103.0	23.1	24.8	15.39	214.8	-777.9	335.9	290.9	44.93	7.476	
6,300.0	6,260.4	6,268.6	6,205.3	23.5	25.3	14.85	219.9	-795.9	339.5	293.8	45.72	7.426	
6,400.0	6,359.5	6,370.4	6,305.6	23.9	25.8	14.33	224.3	-812.8	342.2	295.7	46.47	7.364	
6,500.0	6,458.5	6,476.1	6,409.8	24.3	26.2	13.86	228.7	-829.4	344.1	296.8	47.26	7.281	
6,600.0	6,557.6	6,582.3	6,515.0	24.8	26.7	13.47	232.3	-844.2	344.1	296.0	48.04	7.161	
6,634.8	6,592.0	6,613.9	6,546.3	24.9	26.8	13.36	233.3	-848.5	343.9	295.6	48.27	7.123	
6,700.0	6,656.7	6,672.6	6,604.2	25.2	27.1	13.12	235.5	-857.2	344.5	295.8	48.68	7.076	
6,800.0	6,755.7	6,770.0	6,700.3	25.6	27.5	12.71	239.8	-872.8	346.9	297.5	49.38	7.024	
6,900.0	6,854.8	6,875.2	6,804.1	26.0	28.0	12.32	244.5	-889.1	348.9	298.7	50.17	6.953	
7,000.0	6,953.9	6,978.4	6,906.2	26.4	28.4	11.97	248.5	-904.0	349.6	298.7	50.94	6.864	
7,086.7	7,039.8	7,068.3	6,995.2	26.7	28.8	11.67	251.6	-916.3	349.4	297.9	51.59	6.773	
7,100.0	7,052.9	7,078.5	7,005.2	26.8	28.8	11.63	251.9	-917.7	349.5	297.8	51.67	6.764	
7,200.0	7,152.0	7,168.2	7,093.8	27.2	29.2	11.29	255.8	-931.5	351.3	299.0	52.28	6.719	
7,300.0	7,251.0	7,263.5	7,187.5	27.6	29.6	10.90	260.8	-948.1	355.3	302.4	52.95	6.711	
7,400.0	7,350.1	7,366.5	7,288.8	28.0	30.1	10.45	266.0	-966.1	359.4	305.7	53.72	6.690	
7,500.0	7,449.2	7,469.8	7,390.5	28.4	30.6	9.97	270.6	-983.6	362.7	308.2	54.49	6.655	
7,600.0	7,548.2	7,573.6	7,492.9	28.8	31.0	9.55	274.9	-1,000.1	364.9	309.6	55.26	6.603	
7,700.0	7,647.3	7,677.2	7,595.3	29.3	31.5	9.19	279.0	-1,015.4	366.1	310.0	56.03	6.534	
7,800.0	7,746.3	7,780.5	7,697.5	29.7	31.9	8.89	282.8	-1,029.7	366.4	309.6	56.78	6.452	
7,900.0	7,845.4	7,884.3	7,800.4	30.1	32.4	8.62	286.4	-1,043.1	365.7	308.1	57.54	6.355	
8,000.0	7,944.5	7,989.0	7,904.3	30.5	32.8	8.41	289.6	-1,055.4	363.8	305.5	58.29	6.242	
8,100.0	8,043.5	8,093.9	8,008.6	30.9	33.2	8.23	292.4	-1,066.3	360.7	301.6	59.04	6.109	
8,200.0	8,142.6	8,199.6	8,113.9	31.3	33.6	8.13	294.9	-1,075.8	356.0	296.2	59.77	5.956	
8,300.0	8,241.7	8,305.5	8,219.4	31.7	34.0	8.07	296.8	-1,083.8	349.9	289.4	60.49	5.785	
8,400.0	8,340.7	8,416.1	8,329.9	32.1	34.4	7.93	296.8	-1,089.6	340.8	279.7	61.14	5.574	
8,500.0	8,439.8	8,519.8	8,433.5	32.5	34.7	7.88	296.1	-1,093.0	329.7	267.9	61.81	5.335	
8,600.0	8,538.8	8,621.9	8,535.6	33.0	35.0	8.14	296.4	-1,094.5	317.6	255.1	62.50	5.082	
8,700.0	8,637.9	8,721.9	8,635.6	33.4	35.4	8.67	297.6	-1,094.7	304.9	241.6	63.22	4.822	
8,800.0	8,737.0	8,819.7	8,733.4	33.8	35.7	9.21	298.6	-1,095.1	292.3	228.3	63.98	4.568	
8,900.0	8,836.0	8,920.5	8,834.2	34.2	36.0	9.69	299.3	-1,096.0	279.9	215.2	64.70	4.326	
9,000.0	8,935.1	9,020.0	8,933.7	34.6	36.3	10.34	300.2	-1,096.0	266.9	201.5	65.44	4.079	
9,100.0	9,034.2	9,118.8	9,032.5	35.0	36.6	11.01	300.9	-1,096.2	254.1	187.9	66.20	3.838	
9,200.0	9,133.2	9,218.2	9,131.9	35.4	36.9	11.61	301.2	-1,096.8	241.3	174.3	66.95	3.604	
9,300.0	9,232.3	9,318.7	9,232.4	35.8	37.2	12.10	300.7	-1,097.5	228.2	160.5	67.66	3.372	
9,400.0	9,331.3	9,419.0	9,332.7	36.3	37.5	12.43	299.1	-1,098.1	214.5	146.1	68.35	3.137	
9,500.0	9,430.4	9,518.5	9,432.2	36.7	37.8	13.00	297.9	-1,098.1	200.4	131.3	69.07	2.901	
9,600.0	9,529.5	9,618.4	9,532.0	37.1	38.1	13.95	297.3	-1,097.2	186.0	116.2	69.80	2.665	
9,700.0	9,628.5	9,718.4	9,632.0	37.5	38.4	14.77	295.5	-1,096.3	171.0	100.5	70.51	2.425	
9,800.0	9,727.6	9,816.7	9,730.2	37.9	38.7	15.37	292.9	-1,095.8	155.9	84.6	71.28	2.187	
9,900.0	9,826.6	9,914.7	9,828.2	38.3	39.0	15.93	290.4	-1,096.1	141.3	69.3	72.06	1.961	
10,000.0	9,925.7	10,023.8	9,936.8	38.7	39.3	14.39	282.2	-1,097.6	124.9	53.0	71.93	1.736	
10,100.0	10,024.8	10,127.4	10,035.8	39.2	39.6	0.64	252.3	-1,101.7	100.0	28.6	71.42	1.401	Level 3
10,200.0	10,123.8	10,219.0	10,117.9	39.6	39.8	-26.98	212.0	-1,105.0	82.8	9.1	73.63	1.124	Level 2
10,213.6	10,137.3	10,230.4	10,127.7	39.6	39.8	-31.42	206.2	-1,105.2	82.4	8.4	74.00	1.114	Level 2, ES, SF
10,300.0	10,222.9	10,297.5	10,183.3	40.0	39.9	-57.84	168.8	-1,105.4	97.5	24.6	72.98	1.337	Level 3
10,400.0	10,322.0	10,367.1	10,238.0	40.4	40.0	-78.41	125.7	-1,104.1	144.6	76.6	67.99	2.127	
10,500.0	10,421.0	10,427.0	10,283.9	40.8	40.1	-88.85	87.2	-1,103.9	205.7	142.1	63.61	3.234	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #112H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 29-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,600.0	10,520.1	10,476.1	10,319.4	41.2	40.1	-94.34	53.2	-1,104.5	275.6	216.0	59.64	4.621	
10,700.0	10,619.1	10,521.0	10,348.2	41.6	40.2	-97.87	18.9	-1,105.4	353.2	296.4	56.84	6.215	
10,800.0	10,718.2	10,543.9	10,361.7	42.1	40.2	-99.29	0.3	-1,106.0	435.2	382.7	52.54	8.284	
10,900.0	10,817.3	10,573.3	10,378.0	42.5	40.2	-100.86	-24.1	-1,106.4	520.5	470.2	50.34	10.339	
11,000.0	10,916.3	10,616.0	10,399.7	42.9	40.3	-102.75	-60.8	-1,106.7	608.5	558.5	50.04	12.160	
11,100.0	11,015.4	10,616.0	10,399.7	43.3	40.3	-102.75	-60.8	-1,106.7	697.4	650.8	46.63	14.958	
11,200.0	11,114.5	10,647.1	10,414.3	43.7	40.3	-103.88	-88.3	-1,106.7	788.0	741.8	46.20	17.055	
11,229.9	11,144.0	10,654.2	10,417.5	43.8	40.3	-104.11	-94.6	-1,106.6	815.2	769.3	45.97	17.736	
11,300.0	11,213.6	10,670.1	10,424.6	44.1	40.3	-106.10	-108.9	-1,106.6	879.4	834.0	45.45	19.349	
11,400.0	11,312.9	10,691.5	10,433.7	44.5	40.3	-108.78	-128.2	-1,106.5	971.5	926.7	44.81	21.683	
11,500.0	11,412.4	10,710.0	10,441.4	44.9	40.4	-111.31	-145.1	-1,106.4	1,064.1	1,019.9	44.18	24.087	
11,600.0	11,512.1	10,710.0	10,441.4	45.3	40.4	-113.71	-145.1	-1,106.4	1,157.4	1,114.6	42.86	27.002	
11,700.0	11,611.9	10,710.0	10,441.4	45.7	40.4	-116.23	-145.1	-1,106.4	1,251.6	1,209.7	41.82	29.928	
11,800.0	11,711.8	10,710.0	10,441.4	46.0	40.4	-118.86	-145.1	-1,106.4	1,346.3	1,305.3	40.99	32.845	
11,900.0	11,811.7	10,710.0	10,441.4	46.4	40.4	-121.55	-145.1	-1,106.4	1,441.5	1,401.2	40.34	35.737	
12,000.0	11,911.7	10,749.5	10,455.6	46.7	40.4	-123.40	-181.9	-1,106.1	1,534.5	1,493.5	41.02	37.413	
12,015.3	11,927.0	10,750.4	10,455.9	46.7	40.4	168.51	-182.8	-1,106.1	1,549.0	1,508.1	40.96	37.818	
12,050.0	11,961.7	10,752.7	10,456.6	46.8	40.4	-14.00	-184.9	-1,106.1	1,581.7	1,540.9	40.82	38.749	
12,100.0	12,011.4	10,756.5	10,457.7	47.0	40.4	-11.43	-188.6	-1,106.0	1,627.6	1,587.0	40.56	40.123	
12,150.0	12,060.5	10,760.8	10,458.9	47.1	40.4	-9.66	-192.7	-1,106.0	1,671.8	1,631.6	40.26	41.529	
12,200.0	12,108.5	10,765.7	10,460.3	47.3	40.4	-8.39	-197.4	-1,105.9	1,714.3	1,674.4	39.91	42.954	
12,250.0	12,155.2	10,804.0	10,468.7	47.4	40.5	-7.43	-234.7	-1,105.4	1,756.4	1,716.0	40.34	43.538	
12,300.0	12,200.1	10,804.0	10,468.7	47.5	40.5	-6.73	-234.7	-1,105.4	1,794.0	1,754.2	39.76	45.124	
12,350.0	12,243.0	10,804.0	10,468.7	47.6	40.5	-6.17	-234.7	-1,105.4	1,829.3	1,790.1	39.17	46.706	
12,400.0	12,283.5	10,804.0	10,468.7	47.7	40.5	-5.72	-234.7	-1,105.4	1,862.1	1,823.6	38.58	48.266	
12,450.0	12,321.2	10,804.0	10,468.7	47.8	40.5	-5.35	-234.7	-1,105.4	1,892.5	1,854.4	38.01	49.784	
12,500.0	12,355.9	10,804.0	10,468.7	47.9	40.5	-5.05	-234.7	-1,105.4	1,920.1	1,882.6	37.48	51.234	
12,550.0	12,387.4	10,804.0	10,468.7	47.9	40.5	-4.80	-234.7	-1,105.4	1,945.0	1,908.0	36.98	52.589	
12,600.0	12,415.4	10,804.0	10,468.7	48.0	40.5	-4.60	-234.7	-1,105.4	1,967.0	1,930.5	36.55	53.822	
12,650.0	12,439.6	10,804.0	10,468.7	48.1	40.5	-4.44	-234.7	-1,105.4	1,986.2	1,950.0	36.18	54.900	
12,700.0	12,460.0	10,844.7	10,474.3	48.1	40.5	-4.40	-275.0	-1,105.2	2,000.5	1,964.2	36.29	55.122	
12,750.0	12,476.3	10,855.7	10,475.4	48.2	40.5	-4.33	-286.0	-1,105.3	2,012.6	1,976.5	36.10	55.743	
12,800.0	12,488.4	10,899.0	10,477.4	48.3	40.6	-4.33	-329.2	-1,106.0	2,022.4	1,986.2	36.24	55.808	
12,850.0	12,496.2	10,899.0	10,477.4	48.3	40.6	-4.30	-329.2	-1,106.0	2,027.1	1,991.1	36.03	56.264	
12,900.0	12,499.8	10,899.0	10,477.4	48.4	40.6	-4.29	-329.2	-1,106.0	2,028.7	1,992.8	35.92	56.474	
12,915.3	12,500.0	10,899.0	10,477.4	48.5	40.6	-4.29	-329.2	-1,106.0	2,028.6	1,992.6	35.91	56.487	
13,000.0	12,500.0	10,942.0	10,477.7	48.6	40.7	-4.34	-372.2	-1,106.9	2,028.0	1,991.9	36.12	56.149	
13,002.1	12,500.0	10,943.5	10,477.7	48.6	40.7	-4.34	-373.7	-1,106.9	2,028.0	1,991.9	36.13	56.137	
13,100.0	12,500.0	11,013.5	10,477.5	48.9	40.8	-4.41	-443.7	-1,107.7	2,028.5	1,992.0	36.52	55.548	
13,182.7	12,500.0	11,068.5	10,476.8	49.1	41.0	-4.51	-498.7	-1,105.7	2,029.9	1,993.0	36.91	54.996	
13,200.0	12,500.0	11,087.0	10,476.4	49.2	41.1	-4.54	-517.1	-1,104.3	2,030.4	1,993.4	37.00	54.881	
13,300.0	12,500.0	11,200.4	10,475.0	49.5	41.4	-4.81	-630.1	-1,094.1	2,032.4	1,994.8	37.54	54.134	
13,400.0	12,500.0	11,276.0	10,474.1	50.0	41.7	-4.97	-705.4	-1,088.2	2,034.2	1,996.1	38.13	53.352	
13,500.0	12,500.0	11,345.1	10,472.3	50.4	42.0	-5.07	-774.3	-1,083.9	2,037.5	1,998.7	38.79	52.525	
13,600.0	12,500.0	13,600.0	10,468.6	50.9	58.6	-5.37	-969.7	-1,072.3	2,040.3	1,991.7	48.58	42.000	
13,681.5	12,500.0	11,614.5	10,470.1	51.4	43.6	-5.47	-1,043.2	-1,068.3	2,039.1	1,998.9	40.25	50.662	
13,700.0	12,500.0	11,622.4	10,470.1	51.5	43.7	-5.48	-1,051.1	-1,068.0	2,039.2	1,998.8	40.36	50.523	
13,800.0	12,500.0	11,692.2	10,468.8	52.1	44.2	-5.49	-1,120.8	-1,067.1	2,040.9	1,999.8	41.11	49.642	
13,900.0	12,500.0	11,861.8	10,468.5	52.8	45.5	-5.58	-1,290.3	-1,063.1	2,041.4	1,999.1	42.25	48.317	
14,000.0	12,500.0	11,962.8	10,470.3	53.5	46.3	-5.66	-1,391.3	-1,060.1	2,039.8	1,996.6	43.18	47.239	
14,100.0	12,500.0	12,046.9	10,471.5	54.2	47.1	-5.72	-1,475.4	-1,057.8	2,038.7	1,994.6	44.06	46.268	
14,150.9	12,500.0	12,084.0	10,471.7	54.6	47.4	-5.74	-1,512.5	-1,056.9	2,038.5	1,994.0	44.50	45.805	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #112H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 29-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.0	12,500.0	12,122.0	10,471.6	55.0	47.7	-5.76	-1,550.4	-1,056.0	2,038.7	1,993.7	44.94	45.360	
14,300.0	12,500.0	12,179.0	10,470.7	55.9	48.3	-5.77	-1,607.4	-1,055.1	2,040.3	1,994.5	45.82	44.534	
14,400.0	12,500.0	12,244.1	10,468.3	56.7	48.9	-5.77	-1,672.5	-1,054.6	2,043.9	1,997.2	46.77	43.698	
14,500.0	12,500.0	14,500.0	10,463.3	57.6	72.8	-5.78	-1,796.4	-1,053.3	2,048.1	1,987.7	60.45	33.879	
14,600.0	12,500.0	12,603.9	10,462.3	58.6	52.7	-5.69	-2,032.1	-1,055.5	2,049.0	1,999.3	49.73	41.202	
14,700.0	12,500.0	12,646.0	10,462.8	59.5	53.1	-5.66	-2,074.2	-1,056.4	2,047.2	1,996.7	50.52	40.521	
14,800.0	12,500.0	12,845.8	10,467.7	60.5	55.4	-5.55	-2,273.8	-1,060.0	2,044.9	1,992.5	52.38	39.036	
14,900.0	12,500.0	12,982.8	10,475.9	61.5	57.1	-5.46	-2,410.5	-1,063.2	2,038.8	1,984.9	53.90	37.825	
15,000.0	12,500.0	13,031.6	10,478.4	62.6	57.6	-5.42	-2,459.3	-1,064.9	2,033.0	1,978.3	54.70	37.165	
15,100.0	12,500.0	13,087.0	10,480.3	63.7	58.3	-5.36	-2,514.6	-1,067.1	2,029.2	1,973.6	55.62	36.483	
15,200.0	12,500.0	13,140.1	10,480.9	64.8	59.0	-5.30	-2,567.6	-1,068.8	2,027.8	1,971.2	56.59	35.834	
15,222.8	12,500.0	13,157.0	10,480.8	65.0	59.2	-5.29	-2,584.5	-1,069.2	2,027.8	1,970.9	56.84	35.673	
15,300.0	12,500.0	13,202.6	10,480.2	65.9	59.7	-5.25	-2,630.1	-1,070.2	2,028.5	1,970.8	57.66	35.181	
15,400.0	12,500.0	13,280.3	10,478.2	67.0	60.7	-5.18	-2,707.7	-1,072.2	2,030.8	1,971.9	58.83	34.517	
15,500.0	12,500.0	13,367.0	10,475.5	68.2	61.8	-5.08	-2,794.4	-1,075.2	2,033.5	1,973.5	60.07	33.852	
15,600.0	12,500.0	13,434.0	10,472.4	69.4	62.7	-4.98	-2,861.2	-1,078.3	2,037.8	1,976.5	61.24	33.272	
15,700.0	12,500.0	13,523.7	10,467.2	70.6	63.8	-4.85	-2,950.7	-1,082.2	2,043.1	1,980.6	62.52	32.676	
15,800.0	12,500.0	13,683.8	10,460.9	71.8	65.9	-4.81	-3,110.6	-1,082.4	2,046.9	1,982.8	64.10	31.932	
15,900.0	12,500.0	13,794.8	10,458.6	73.0	67.4	-4.81	-3,221.6	-1,081.5	2,049.0	1,983.5	65.49	31.287	
16,000.0	12,500.0	13,907.8	10,456.7	74.3	68.9	-4.82	-3,334.5	-1,080.7	2,050.6	1,983.7	66.90	30.650	
16,100.0	12,500.0	13,996.1	10,455.4	75.6	70.1	-4.84	-3,422.9	-1,079.4	2,052.3	1,984.1	68.20	30.091	
16,200.0	12,500.0	14,067.1	10,453.7	76.9	71.1	-4.87	-3,493.9	-1,077.8	2,054.9	1,985.4	69.42	29.600	
16,300.0	12,500.0	14,255.9	10,453.1	78.2	73.7	-5.04	-3,682.5	-1,070.8	2,055.0	1,983.7	71.28	28.831	
16,377.7	12,500.0	14,312.9	10,453.6	79.2	74.5	-5.09	-3,739.4	-1,068.7	2,054.5	1,982.3	72.23	28.442	
16,400.0	12,500.0	14,327.8	10,453.6	79.5	74.7	-5.10	-3,754.4	-1,068.3	2,054.5	1,982.0	72.50	28.338	
16,500.0	12,500.0	14,414.0	10,452.8	80.8	75.9	-5.12	-3,840.5	-1,067.2	2,055.5	1,981.6	73.82	27.844	
16,600.0	12,500.0	14,512.7	10,451.5	82.1	77.3	-5.01	-3,939.2	-1,070.8	2,056.5	1,981.2	75.22	27.339	
16,700.0	12,500.0	14,614.5	10,449.6	83.5	78.7	-4.77	-4,040.6	-1,078.6	2,057.6	1,981.0	76.64	26.846	
16,800.0	12,500.0	14,718.9	10,448.4	84.8	80.2	-4.68	-4,144.9	-1,081.5	2,058.5	1,980.4	78.09	26.362	
16,900.0	12,500.0	14,843.9	10,447.9	86.2	82.0	-4.56	-4,269.9	-1,085.1	2,058.6	1,979.0	79.65	25.844	
16,925.9	12,500.0	14,861.7	10,447.9	86.6	82.3	-4.53	-4,287.7	-1,086.1	2,058.6	1,978.6	79.98	25.739	
17,000.0	12,500.0	14,912.8	10,447.4	87.6	83.0	-4.46	-4,338.7	-1,088.4	2,059.0	1,978.1	80.91	25.448	
17,100.0	12,500.0	15,023.0	10,446.2	89.0	84.6	-4.44	-4,448.9	-1,088.5	2,060.0	1,977.6	82.40	25.001	
17,200.0	12,500.0	15,108.7	10,445.5	90.4	85.9	-4.51	-4,534.5	-1,085.7	2,061.0	1,977.3	83.76	24.608	
17,300.0	12,500.0	15,234.4	10,444.5	91.8	87.7	-4.45	-4,660.1	-1,087.2	2,061.7	1,976.3	85.34	24.157	
17,400.0	12,500.0	15,340.5	10,444.4	93.2	89.3	-4.37	-4,766.3	-1,089.6	2,061.6	1,974.8	86.83	23.743	
17,474.1	12,500.0	15,410.2	10,444.6	94.2	90.3	-4.38	-4,835.9	-1,089.0	2,061.4	1,973.5	87.88	23.458	
17,500.0	12,500.0	15,428.9	10,444.6	94.6	90.6	-4.39	-4,854.6	-1,088.5	2,061.5	1,973.3	88.21	23.369	
17,600.0	12,500.0	15,509.9	10,443.9	96.0	91.8	-4.46	-4,935.5	-1,085.6	2,062.5	1,972.9	89.57	23.028	
17,700.0	12,500.0	15,621.9	10,443.3	97.5	93.5	-4.52	-5,047.5	-1,082.7	2,063.1	1,972.0	91.10	22.648	
17,800.0	12,500.0	15,715.0	10,442.5	98.9	94.9	-4.60	-5,140.6	-1,079.5	2,064.2	1,971.7	92.53	22.309	
17,900.0	12,500.0	15,812.1	10,441.8	100.4	96.3	-4.61	-5,237.7	-1,078.5	2,065.0	1,971.0	93.98	21.973	
18,000.0	12,500.0	15,866.0	10,440.9	101.8	97.1	-4.61	-5,291.5	-1,078.3	2,066.9	1,971.7	95.18	21.715	
18,100.0	12,500.0	15,935.1	10,438.6	103.3	98.2	-4.63	-5,360.6	-1,077.1	2,070.6	1,974.1	96.47	21.463	
18,200.0	12,500.0	16,024.1	10,434.0	104.7	99.5	-4.74	-5,449.4	-1,072.4	2,076.1	1,978.2	97.89	21.210	
18,300.0	12,500.0	16,116.8	10,429.5	106.2	100.9	-4.92	-5,541.6	-1,065.0	2,081.6	1,982.2	99.33	20.957	
18,400.0	12,500.0	16,362.3	10,427.0	107.7	104.6	-5.34	-5,786.4	-1,048.3	2,082.2	1,980.4	101.77	20.460	
18,447.4	12,500.0	16,384.9	10,427.2	108.4	105.0	-5.36	-5,809.0	-1,047.7	2,081.9	1,979.6	102.33	20.345	
18,500.0	12,500.0	16,410.1	10,427.0	109.2	105.4	-5.37	-5,834.2	-1,047.0	2,082.3	1,979.3	102.95	20.226	
18,600.0	12,500.0	16,479.9	10,425.5	110.7	106.4	-5.40	-5,903.9	-1,045.6	2,084.5	1,980.3	104.26	19.994	
18,700.0	12,500.0	16,565.6	10,423.0	112.2	107.8	-5.43	-5,989.6	-1,043.8	2,087.6	1,982.0	105.67	19.756	
18,800.0	12,500.0	16,656.6	10,419.7	113.7	109.2	-5.49	-6,080.5	-1,041.0	2,091.4	1,984.3	107.12	19.523	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #112H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 29-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,900.0	12,500.0	16,922.4	10,423.4	115.2	113.3	-5.70	-6,346.0	-1,032.3	2,088.6	1,978.9	109.72	19.036	
19,000.0	12,500.0	16,995.0	10,425.7	116.7	114.4	-5.73	-6,418.5	-1,031.4	2,085.5	1,974.4	111.08	18.775	
19,100.0	12,500.0	17,090.0	10,428.4	118.2	115.9	-5.69	-6,513.5	-1,032.7	2,082.5	1,970.0	112.55	18.503	
19,198.6	12,500.0	17,136.7	10,429.1	119.7	116.6	-5.64	-6,560.2	-1,034.4	2,081.0	1,967.3	113.72	18.300	
19,200.0	12,500.0	17,137.3	10,429.1	119.7	116.6	-5.64	-6,560.7	-1,034.4	2,081.0	1,967.2	113.73	18.297	
19,300.0	12,500.0	17,183.0	10,428.0	121.2	117.3	-5.57	-6,606.4	-1,036.6	2,082.6	1,967.7	114.88	18.129	
19,400.0	12,500.0	17,249.4	10,424.9	122.7	118.3	-5.45	-6,672.6	-1,040.3	2,086.4	1,970.3	116.13	17.966	
19,500.0	12,500.0	17,333.0	10,420.5	124.2	119.6	-5.30	-6,755.9	-1,045.2	2,091.1	1,973.6	117.50	17.797	
19,600.0	12,500.0	17,494.8	10,413.0	125.8	122.1	-5.08	-6,917.4	-1,051.6	2,095.7	1,976.3	119.39	17.553	
19,700.0	12,500.0	17,651.7	10,412.7	127.3	124.6	-5.07	-7,074.2	-1,051.4	2,095.5	1,974.3	121.26	17.281	
19,780.6	12,500.0	17,719.7	10,412.8	128.5	125.7	-5.05	-7,142.2	-1,051.8	2,095.3	1,972.9	122.41	17.117	
19,800.0	12,500.0	17,736.0	10,412.8	128.8	125.9	-5.05	-7,158.6	-1,051.9	2,095.3	1,972.6	122.69	17.078	
19,900.0	12,500.0	17,838.0	10,412.5	130.4	127.5	-5.01	-7,260.6	-1,052.7	2,095.5	1,971.2	124.22	16.870	
20,000.0	12,500.0	17,956.0	10,413.0	131.9	129.4	-4.96	-7,378.6	-1,054.0	2,094.9	1,969.1	125.84	16.648	
20,100.0	12,500.0	18,039.9	10,413.3	133.4	130.7	-4.94	-7,462.4	-1,054.6	2,094.5	1,967.2	127.26	16.458	
20,106.5	12,500.0	18,045.7	10,413.3	133.5	130.8	-4.94	-7,468.2	-1,054.7	2,094.5	1,967.1	127.36	16.446	
20,200.0	12,500.0	18,128.9	10,413.0	135.0	132.1	-4.92	-7,551.4	-1,054.9	2,094.7	1,966.0	128.72	16.274	
20,300.0	12,500.0	18,225.9	10,412.5	136.5	133.6	-4.92	-7,648.4	-1,054.2	2,095.3	1,965.0	130.23	16.089	
20,400.0	12,500.0	18,318.4	10,411.7	138.1	135.1	-4.93	-7,741.0	-1,053.4	2,096.1	1,964.4	131.72	15.914	
20,500.0	12,500.0	18,437.2	10,411.3	139.6	136.9	-4.92	-7,859.8	-1,053.5	2,096.4	1,963.1	133.36	15.720	
20,600.0	12,500.0	18,527.3	10,410.9	141.2	138.4	-4.90	-7,949.9	-1,053.8	2,096.8	1,961.9	134.83	15.551	
20,700.0	12,500.0	18,625.4	10,410.3	142.7	139.9	-4.92	-8,048.0	-1,052.3	2,097.5	1,961.1	136.36	15.382	
20,800.0	12,500.0	18,782.5	10,411.0	144.3	142.4	-4.97	-8,205.0	-1,050.1	2,097.3	1,959.1	138.24	15.172	
20,900.0	12,500.0	18,851.7	10,412.0	145.9	143.5	-5.00	-8,274.2	-1,048.9	2,096.0	1,956.4	139.62	15.012	
20,950.5	12,500.0	18,889.7	10,412.2	146.6	144.1	-5.03	-8,312.2	-1,047.5	2,095.9	1,955.6	140.33	14.935	
21,000.0	12,500.0	18,935.5	10,412.3	147.4	144.8	-5.07	-8,357.9	-1,045.7	2,095.9	1,954.8	141.09	14.856	
21,100.0	12,500.0	19,025.7	10,412.2	149.0	146.3	-5.16	-8,448.0	-1,042.0	2,096.3	1,953.7	142.60	14.701	
21,200.0	12,500.0	19,117.8	10,411.7	150.5	147.7	-5.26	-8,540.0	-1,038.1	2,097.2	1,953.1	144.13	14.551	
21,300.0	12,500.0	19,190.2	10,410.9	152.1	148.9	-5.31	-8,612.4	-1,035.7	2,098.7	1,953.2	145.51	14.423	
21,400.0	12,500.0	19,254.0	10,408.7	153.7	149.9	-5.34	-8,676.2	-1,034.2	2,102.1	1,955.3	146.79	14.321	
21,500.0	12,500.0	19,310.2	10,405.7	155.3	150.8	-5.35	-8,732.3	-1,033.3	2,107.4	1,959.4	147.97	14.242	
21,600.0	12,500.0	19,498.8	10,399.1	156.8	153.8	-5.53	-8,920.5	-1,025.2	2,111.1	1,960.8	150.29	14.046	
21,700.0	12,500.0	19,702.9	10,403.1	158.4	157.1	-5.76	-9,124.2	-1,016.0	2,108.5	1,955.9	152.60	13.817	
21,800.0	12,500.0	19,783.6	10,404.8	160.0	158.3	-5.73	-9,204.9	-1,017.2	2,106.2	1,952.1	154.03	13.673	
21,900.0	12,500.0	19,889.3	10,406.8	161.6	160.0	-5.68	-9,310.6	-1,018.7	2,104.1	1,948.5	155.59	13.523	
22,000.0	12,500.0	19,986.3	10,408.9	163.1	161.6	-5.64	-9,407.6	-1,019.9	2,101.7	1,944.6	157.11	13.377	
22,100.0	12,500.0	20,048.2	10,409.9	164.7	162.6	-5.63	-9,469.4	-1,020.0	2,100.3	1,941.8	158.44	13.256	
22,116.4	12,500.0	20,056.7	10,409.9	165.0	162.7	-5.63	-9,478.0	-1,020.0	2,100.3	1,941.6	158.65	13.239	
22,200.0	12,500.0	20,103.0	10,409.3	166.3	163.5	-5.61	-9,524.2	-1,020.6	2,101.1	1,941.4	159.68	13.158	
22,300.0	12,500.0	20,239.0	10,408.6	167.9	165.6	-5.55	-9,660.2	-1,022.1	2,101.3	1,939.8	161.45	13.015	
22,400.0	12,500.0	20,338.8	10,407.8	169.5	167.2	-5.47	-9,760.0	-1,024.5	2,101.8	1,938.8	162.96	12.897	
22,500.0	12,500.0	20,455.5	10,408.3	171.0	169.1	-5.43	-9,876.6	-1,025.7	2,101.2	1,936.6	164.60	12.765	
22,568.4	12,500.0	20,508.8	10,408.6	172.1	170.0	-5.44	-9,930.0	-1,025.2	2,100.8	1,935.3	165.58	12.688	
22,600.0	12,500.0	20,529.6	10,408.5	172.6	170.3	-5.42	-9,950.8	-1,025.6	2,100.9	1,934.9	165.99	12.657	
22,700.0	12,500.0	20,649.2	10,406.9	174.2	172.2	-5.22	-10,070.1	-1,032.5	2,101.9	1,934.3	167.56	12.544	
22,799.3	12,500.0	20,740.0	10,407.1	175.8	173.6	-5.15	-10,160.9	-1,034.7	2,101.4	1,932.3	169.02	12.433	
22,800.0	12,500.0	20,740.6	10,407.1	175.8	173.7	-5.14	-10,161.5	-1,034.7	2,101.4	1,932.3	169.03	12.432	
22,900.0	12,500.0	20,863.4	10,407.6	177.4	175.6	-5.20	-10,284.2	-1,032.4	2,101.1	1,930.4	170.75	12.305	
22,951.6	12,500.0	20,892.5	10,407.9	178.2	176.1	-5.24	-10,313.2	-1,030.6	2,100.9	1,929.5	171.45	12.254	
23,000.0	12,500.0	20,923.6	10,407.9	179.0	176.6	-5.28	-10,344.3	-1,029.0	2,101.1	1,929.0	172.11	12.208	
23,100.0	12,500.0	21,060.7	10,408.2	180.6	178.8	-5.48	-10,481.2	-1,021.1	2,101.5	1,927.5	174.02	12.076	
23,200.0	12,500.0	21,138.0	10,409.2	182.2	180.1	-5.57	-10,558.4	-1,017.5	2,100.8	1,925.3	175.50	11.970	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #112H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 29-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
23,214.6	12,500.0	21,155.8	10,409.2	182.4	180.3	-5.58	-10,576.2	-1,017.2	2,100.7	1,925.0	175.75	11.953	
23,300.0	12,500.0	21,202.3	10,408.8	183.8	181.1	-5.57	-10,622.7	-1,017.2	2,101.5	1,924.7	176.81	11.886	
23,400.0	12,500.0	21,364.5	10,408.9	185.4	183.7	-5.56	-10,784.8	-1,016.7	2,101.1	1,922.3	178.78	11.753	
23,445.4	12,500.0	21,386.7	10,409.1	186.1	184.1	-5.57	-10,807.0	-1,016.4	2,100.8	1,921.5	179.35	11.713	
23,500.0	12,500.0	21,419.0	10,408.8	187.0	184.6	-5.58	-10,839.3	-1,016.0	2,101.2	1,921.2	180.06	11.669	
23,600.0	12,500.0	21,502.8	10,407.5	188.6	185.9	-5.61	-10,923.0	-1,014.4	2,102.9	1,921.4	181.53	11.584	
23,700.0	12,500.0	21,663.4	10,408.7	190.2	188.5	-5.72	-11,083.5	-1,009.5	2,101.9	1,918.3	183.58	11.450	
23,800.0	12,500.0	21,749.7	10,409.3	191.8	189.9	-5.76	-11,169.9	-1,007.7	2,101.4	1,916.3	185.09	11.353	
23,880.8	12,500.0	21,822.2	10,409.7	193.1	191.1	-5.82	-11,242.3	-1,005.5	2,101.1	1,914.8	186.34	11.275	
23,900.0	12,500.0	21,836.9	10,409.7	193.4	191.3	-5.83	-11,257.0	-1,005.0	2,101.1	1,914.5	186.62	11.259	
24,000.0	12,500.0	21,923.7	10,409.4	195.0	192.7	-5.89	-11,343.8	-1,002.2	2,101.8	1,913.7	188.15	11.171	
24,100.0	12,500.0	22,068.5	10,409.6	196.6	195.1	-6.01	-11,488.5	-997.5	2,102.1	1,912.0	190.09	11.058	
24,200.0	12,500.0	22,146.2	10,410.5	198.2	196.3	-6.05	-11,566.2	-995.6	2,101.2	1,909.6	191.56	10.968	
24,216.3	12,500.0	22,157.9	10,410.5	198.4	196.5	-6.05	-11,577.8	-995.7	2,101.1	1,909.4	191.79	10.955	
24,300.0	12,500.0	22,238.6	10,410.1	199.8	197.8	-5.98	-11,658.5	-997.7	2,101.3	1,908.3	193.03	10.886	
24,400.0	12,500.0	22,370.2	10,409.8	201.4	199.9	-5.73	-11,789.8	-1,006.4	2,100.9	1,906.3	194.60	10.796	
24,464.3	12,500.0	22,406.5	10,409.7	202.4	200.5	-5.65	-11,826.0	-1,009.2	2,100.5	1,905.1	195.38	10.751	
24,500.0	12,500.0	22,429.2	10,409.4	203.0	200.9	-5.61	-11,848.6	-1,010.7	2,100.6	1,904.8	195.82	10.727	
24,600.0	12,500.0	24,600.0	10,408.5	204.6	235.8	-5.42	-11,960.7	-1,017.0	2,100.9	1,887.3	213.55	9.838	
24,646.7	12,500.0	22,589.1	10,408.5	205.3	203.5	-5.34	-12,008.3	-1,019.5	2,100.6	1,902.6	198.02	10.608	
24,700.0	12,500.0	22,620.7	10,408.2	206.2	204.0	-5.31	-12,039.9	-1,020.7	2,100.9	1,902.2	198.69	10.574	
24,800.0	12,500.0	22,790.5	10,409.2	207.8	206.7	-5.25	-12,209.6	-1,022.3	2,100.2	1,899.6	200.62	10.469	
24,887.2	12,500.0	22,874.1	10,411.0	209.2	208.1	-5.25	-12,293.2	-1,022.1	2,098.3	1,896.3	201.97	10.389	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #122H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 172-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-81.81	28.8	-200.2	202.2				
100.0	100.0	98.1	98.1	0.1	0.1	-81.87	28.6	-200.4	202.4	202.2	0.28	732.054	
200.0	200.0	197.6	197.6	0.5	0.4	-82.03	28.1	-201.1	203.1	202.2	0.84	242.497	
300.0	300.0	298.3	298.3	0.8	0.7	-82.17	27.7	-201.7	203.6	202.0	1.56	130.822	
400.0	400.0	399.3	399.3	1.2	1.1	-82.23	27.5	-201.8	203.7	201.4	2.27	89.815	
500.0	500.0	500.4	500.4	1.6	1.4	-82.29	27.3	-201.5	203.3	200.3	2.98	68.275	
600.0	600.0	600.6	600.6	1.9	1.8	-82.34	27.0	-200.8	202.6	198.9	3.68	55.007	
700.0	700.0	700.8	700.7	2.3	2.1	-82.39	26.7	-200.0	201.8	197.4	4.39	45.982	
800.0	800.0	799.9	799.9	2.6	2.5	-82.54	26.1	-199.5	201.2	196.1	5.10	39.461	
900.0	900.0	899.2	899.2	3.0	2.8	-82.80	25.2	-199.3	200.9	195.1	5.81	34.594	
926.7	926.7	925.7	925.7	3.1	2.9	-82.87	25.0	-199.4	200.9	194.9	6.00	33.496	
1,000.0	1,000.0	998.6	998.6	3.4	3.2	-83.03	24.4	-199.5	201.0	194.5	6.52	30.828	
1,100.0	1,100.0	1,098.1	1,098.1	3.7	3.5	-83.21	23.8	-199.9	201.3	194.1	7.23	27.841	
1,200.0	1,200.0	1,198.3	1,198.3	4.1	3.9	-83.33	23.4	-200.4	201.8	193.8	7.94	25.402	
1,300.0	1,300.0	1,298.8	1,298.7	4.4	4.2	-83.42	23.1	-200.7	202.0	193.4	8.66	23.338	
1,400.0	1,400.0	1,399.3	1,399.3	4.8	4.6	-83.72	22.1	-200.8	202.0	192.7	9.37	21.558	
1,500.0	1,500.0	1,500.2	1,500.1	5.1	4.9	-84.20	20.4	-200.7	201.7	191.6	10.09	19.991	
1,600.0	1,600.0	1,601.1	1,601.0	5.5	5.3	45.21	18.3	-200.1	200.3	189.5	10.79	18.558	
1,700.0	1,700.0	1,701.5	1,701.4	5.8	5.7	45.12	15.9	-199.2	197.3	185.9	11.48	17.185	
1,800.0	1,799.9	1,802.0	1,801.8	6.2	6.0	45.43	13.6	-198.0	192.9	180.7	12.18	15.840	
1,900.0	1,899.7	1,898.5	1,898.4	6.5	6.4	46.68	13.4	-197.5	188.1	175.3	12.85	14.644	
2,000.0	1,999.4	1,996.3	1,996.1	6.8	6.7	49.10	15.5	-198.0	183.6	170.1	13.52	13.583	
2,100.0	2,098.9	2,094.6	2,094.4	7.2	7.0	52.23	18.3	-199.0	179.1	164.9	14.19	12.619	
2,200.0	2,198.3	2,193.1	2,192.8	7.5	7.3	56.04	21.3	-200.6	174.7	159.9	14.88	11.745	
2,300.0	2,297.4	2,291.5	2,291.2	7.9	7.7	60.53	24.6	-202.4	170.7	155.1	15.57	10.960	
2,313.7	2,311.0	2,305.0	2,304.6	8.0	7.7	61.20	25.1	-202.7	170.2	154.5	15.67	10.860	
2,400.0	2,396.4	2,391.3	2,390.9	8.3	8.0	65.40	27.4	-204.5	167.3	151.0	16.29	10.268	
2,500.0	2,495.4	2,492.0	2,491.6	8.7	8.4	69.86	28.2	-206.7	164.1	147.1	17.02	9.642	
2,600.0	2,594.4	2,591.6	2,591.1	9.0	8.7	74.02	27.7	-208.8	161.2	143.4	17.75	9.080	
2,700.0	2,693.4	2,690.8	2,690.3	9.4	9.1	78.38	27.3	-210.7	159.1	140.7	18.49	8.607	
2,800.0	2,792.4	2,790.6	2,790.1	9.8	9.4	83.00	27.1	-212.3	157.9	138.7	19.23	8.210	
2,900.0	2,891.4	2,890.3	2,889.8	10.2	9.8	87.89	27.0	-213.2	157.4	137.4	19.98	7.876	
2,916.0	2,907.2	2,906.2	2,905.7	10.3	9.8	88.69	27.1	-213.2	157.3	137.2	20.10	7.829	
3,009.7	3,000.0	2,999.0	2,998.5	10.6	10.2	93.26	27.0	-213.9	157.9	137.1	20.79	7.594	
3,100.0	3,089.4	3,088.7	3,088.2	11.0	10.5	91.22	26.7	-214.7	158.7	137.2	21.46	7.393	
3,200.0	3,188.6	3,189.1	3,188.6	11.4	10.8	87.89	26.1	-215.2	158.3	136.1	22.20	7.132	
3,300.0	3,287.8	3,289.8	3,289.3	11.8	11.2	83.79	25.1	-215.0	156.4	133.5	22.94	6.819	
3,400.0	3,387.1	3,391.7	3,391.1	12.2	11.5	79.63	23.0	-213.2	152.2	128.5	23.66	6.432	
3,500.0	3,486.4	3,491.7	3,491.0	12.5	11.9	76.02	20.0	-209.8	145.7	121.3	24.37	5.980	
3,600.0	3,585.6	3,589.6	3,588.8	12.9	12.2	73.20	17.2	-206.3	138.9	113.9	25.07	5.543	
3,700.0	3,684.8	3,686.6	3,685.8	13.3	12.6	71.55	15.1	-203.1	132.6	106.8	25.75	5.148	
3,762.2	3,746.4	3,746.5	3,745.6	13.5	12.8	71.22	14.5	-201.1	129.4	103.2	26.16	4.945	
3,800.0	3,783.9	3,782.8	3,781.9	13.7	12.9	73.83	14.6	-200.0	127.9	101.5	26.41	4.845	
3,897.2	3,880.2	3,877.3	3,876.4	14.1	13.2	80.66	15.7	-197.2	126.6	99.6	27.03	4.683	CC
3,900.0	3,882.9	3,880.0	3,879.1	14.1	13.2	80.85	15.7	-197.1	126.6	99.5	27.05	4.680	ES
4,000.0	3,982.0	3,978.4	3,977.4	14.4	13.6	87.70	17.6	-194.7	127.8	100.1	27.70	4.613	SF
4,100.0	4,081.1	4,076.7	4,075.7	14.8	13.9	94.05	20.0	-192.6	131.1	102.7	28.36	4.623	
4,200.0	4,180.1	4,174.9	4,173.8	15.2	14.2	99.73	23.1	-191.0	136.4	107.4	29.01	4.702	
4,300.0	4,279.2	4,273.3	4,272.1	15.6	14.6	104.69	27.0	-189.6	143.4	113.8	29.68	4.833	
4,400.0	4,378.2	4,371.8	4,370.5	16.0	14.9	109.05	31.4	-188.2	151.8	121.5	30.35	5.002	
4,500.0	4,477.3	4,470.7	4,469.3	16.4	15.3	112.81	36.3	-186.9	161.2	130.2	31.03	5.195	
4,600.0	4,576.4	4,569.9	4,568.4	16.8	15.6	115.93	41.6	-186.1	171.2	139.4	31.73	5.394	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #122H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 172-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,700.0	4,675.4	4,667.5	4,665.8	17.1	16.0	118.43	47.6	-185.6	181.8	149.4	32.41	5.609	
4,800.0	4,774.5	4,764.3	4,762.3	17.5	16.3	120.44	54.7	-184.6	193.8	160.8	33.08	5.861	
4,900.0	4,873.6	4,861.3	4,858.9	17.9	16.6	121.90	63.3	-183.5	207.2	173.4	33.75	6.139	
5,000.0	4,972.6	4,958.4	4,955.4	18.3	17.0	122.67	74.1	-182.7	221.5	187.1	34.44	6.433	
5,100.0	5,071.7	5,057.9	5,054.1	18.7	17.3	123.04	86.4	-182.4	236.2	201.1	35.17	6.717	
5,200.0	5,170.7	5,158.0	5,153.5	19.1	17.7	123.38	98.4	-182.4	250.5	214.6	35.92	6.974	
5,300.0	5,269.8	5,257.7	5,252.5	19.5	18.0	123.72	110.1	-182.6	264.4	227.8	36.66	7.213	
5,400.0	5,368.9	5,357.4	5,351.6	19.9	18.4	124.07	121.5	-183.0	278.1	240.7	37.40	7.436	
5,500.0	5,467.9	5,456.9	5,450.4	20.3	18.8	124.42	132.6	-183.4	291.6	253.5	38.14	7.646	
5,600.0	5,567.0	5,556.3	5,549.3	20.7	19.1	124.78	143.5	-183.7	305.0	266.1	38.88	7.845	
5,700.0	5,666.0	5,652.1	5,644.5	21.1	19.5	125.09	154.2	-183.7	318.9	279.4	39.57	8.060	
5,800.0	5,765.1	5,748.7	5,740.3	21.5	19.8	125.34	165.7	-183.0	333.7	293.5	40.27	8.287	
5,900.0	5,864.2	5,848.7	5,839.6	21.9	20.2	125.60	177.5	-182.2	348.7	307.6	41.03	8.498	
6,000.0	5,963.2	5,947.6	5,937.9	22.3	20.6	125.91	188.7	-181.3	363.3	321.5	41.77	8.699	
6,100.0	6,062.3	6,043.2	6,032.8	22.7	20.9	126.10	200.2	-180.4	378.5	336.0	42.46	8.914	
6,200.0	6,161.4	6,140.2	6,128.9	23.1	21.3	126.16	213.0	-179.1	394.5	351.3	43.18	9.137	
6,300.0	6,260.4	6,241.4	6,229.2	23.5	21.7	126.23	226.1	-178.0	410.3	366.3	43.96	9.333	
6,400.0	6,359.5	6,344.0	6,331.1	23.9	22.0	126.35	238.8	-177.2	425.4	380.6	44.76	9.505	
6,500.0	6,458.5	6,448.6	6,435.1	24.3	22.4	126.63	250.0	-176.8	439.4	393.8	45.57	9.641	
6,600.0	6,557.6	6,550.9	6,536.9	24.8	22.8	127.05	259.2	-176.8	452.2	405.9	46.35	9.757	
6,700.0	6,656.7	6,651.3	6,637.1	25.2	23.2	127.52	267.5	-176.8	464.7	417.6	47.10	9.867	
6,800.0	6,755.7	6,752.4	6,737.9	25.6	23.5	128.06	275.1	-176.7	476.9	429.1	47.86	9.966	
6,900.0	6,854.8	6,853.8	6,839.0	26.0	23.9	128.65	282.0	-176.6	488.7	440.1	48.61	10.054	
7,000.0	6,953.9	6,954.1	6,939.1	26.4	24.3	129.26	288.1	-176.7	500.3	450.9	49.35	10.136	
7,100.0	7,052.9	7,054.2	7,039.0	26.8	24.6	129.89	293.8	-176.7	511.6	461.6	50.09	10.214	
7,200.0	7,152.0	7,162.3	7,147.1	27.2	25.0	130.72	298.0	-176.9	522.2	471.3	50.88	10.262	
7,300.0	7,251.0	7,270.6	7,255.3	27.6	25.4	131.81	299.0	-177.5	531.1	479.4	51.65	10.282	
7,400.0	7,350.1	7,367.8	7,352.6	28.0	25.7	132.83	299.1	-178.2	539.8	487.4	52.34	10.312	
7,500.0	7,449.2	7,467.1	7,451.9	28.4	26.1	133.85	299.0	-178.9	548.5	495.5	53.05	10.340	
7,600.0	7,548.2	7,566.4	7,551.2	28.8	26.4	134.86	298.6	-179.5	557.4	503.7	53.75	10.371	
7,700.0	7,647.3	7,665.7	7,650.4	29.3	26.8	135.89	298.0	-180.0	566.5	512.0	54.45	10.404	
7,800.0	7,746.3	7,765.0	7,749.7	29.7	27.1	136.90	297.0	-180.4	575.7	520.5	55.15	10.439	
7,900.0	7,845.4	7,864.0	7,848.8	30.1	27.4	137.90	295.9	-180.8	585.0	529.2	55.84	10.476	
8,000.0	7,944.5	7,962.9	7,947.6	30.5	27.8	138.88	294.7	-181.1	594.6	538.0	56.54	10.516	
8,100.0	8,043.5	8,061.5	8,046.2	30.9	28.1	139.83	293.4	-181.4	604.3	547.1	57.23	10.559	
8,200.0	8,142.6	8,159.9	8,144.6	31.3	28.4	140.72	292.4	-181.6	614.3	556.4	57.93	10.605	
8,300.0	8,241.7	8,263.0	8,247.7	31.7	28.8	141.57	291.9	-182.2	624.3	565.7	58.65	10.644	
8,400.0	8,340.7	8,368.6	8,353.3	32.1	29.2	142.32	292.2	-184.1	633.5	574.1	59.39	10.666	
8,500.0	8,439.8	8,469.5	8,454.2	32.5	29.5	142.93	293.1	-186.8	642.1	581.9	60.11	10.681	
8,600.0	8,538.8	8,567.3	8,551.9	33.0	29.9	143.45	294.6	-189.6	650.6	589.8	60.82	10.698	
8,700.0	8,637.9	8,661.0	8,645.6	33.4	30.2	144.05	295.0	-191.3	660.0	598.5	61.50	10.732	
8,800.0	8,737.0	8,757.7	8,742.2	33.8	30.5	144.79	293.9	-192.1	670.1	607.9	62.18	10.777	
8,900.0	8,836.0	8,859.1	8,843.7	34.2	30.9	145.59	292.3	-192.9	680.3	617.4	62.89	10.816	
9,000.0	8,935.1	8,960.0	8,944.6	34.6	31.2	146.38	290.3	-193.9	690.2	626.6	63.60	10.852	
9,100.0	9,034.2	9,060.6	9,045.1	35.0	31.5	147.15	288.3	-195.2	700.1	635.8	64.31	10.886	
9,200.0	9,133.2	9,159.8	9,144.2	35.4	31.9	147.88	286.3	-196.6	709.9	644.9	65.01	10.921	
9,300.0	9,232.3	9,255.8	9,240.2	35.8	32.2	148.58	284.3	-197.7	720.0	654.4	65.69	10.962	
9,400.0	9,331.3	9,379.9	9,364.0	36.3	32.6	149.83	276.8	-199.7	729.5	663.0	66.49	10.972	
9,500.0	9,430.4	9,536.0	9,514.5	36.7	33.1	153.53	238.2	-209.1	732.2	665.1	67.12	10.909	
9,600.0	9,529.5	9,625.4	9,595.7	37.1	33.4	156.73	201.6	-216.5	733.6	665.8	67.77	10.825	
9,700.0	9,628.5	9,713.7	9,669.5	37.5	33.6	160.75	153.7	-222.3	739.4	671.0	68.37	10.814	
9,800.0	9,727.6	9,825.1	9,753.6	37.9	33.9	166.64	81.6	-233.9	747.9	678.9	69.00	10.840	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #122H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 172-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.0	9,826.6	9,898.3	9,803.2	38.3	34.1	170.86	28.9	-244.9	760.5	691.2	69.38	10.963	
10,000.0	9,925.7	9,951.6	9,836.8	38.7	34.2	174.05	-11.6	-253.2	781.1	711.8	69.29	11.273	
10,100.0	10,024.8	9,995.4	9,862.1	39.2	34.4	176.74	-46.6	-260.3	809.9	741.3	68.69	11.792	
10,200.0	10,123.8	10,030.8	9,880.7	39.6	34.5	178.98	-76.2	-266.3	847.3	779.7	67.59	12.536	
10,300.0	10,222.9	10,044.0	9,887.2	40.0	34.5	179.82	-87.4	-268.6	892.8	827.0	65.79	13.570	
10,400.0	10,322.0	10,077.7	9,902.6	40.4	34.6	-178.03	-116.8	-274.2	945.3	881.1	64.21	14.722	
10,500.0	10,421.0	10,095.7	9,910.2	40.8	34.7	-176.89	-132.9	-277.0	1,004.4	942.2	62.28	16.128	
10,600.0	10,520.1	10,111.5	9,916.5	41.2	34.7	-175.88	-147.2	-279.4	1,069.1	1,008.7	60.34	17.716	
10,700.0	10,619.1	10,139.0	9,926.7	41.6	34.8	-174.15	-172.4	-283.3	1,138.6	1,079.8	58.75	19.380	
10,800.0	10,718.2	10,139.0	9,926.7	42.1	34.8	-174.15	-172.4	-283.3	1,211.6	1,154.9	56.74	21.355	
10,900.0	10,817.3	10,139.0	9,926.7	42.5	34.8	-174.15	-172.4	-283.3	1,288.2	1,233.4	54.89	23.470	
11,000.0	10,916.3	10,139.0	9,926.7	42.9	34.8	-174.15	-172.4	-283.3	1,367.9	1,314.7	53.22	25.704	
11,100.0	11,015.4	10,164.5	9,935.1	43.3	34.9	-172.56	-196.3	-286.6	1,449.3	1,397.1	52.19	27.768	
11,200.0	11,114.5	10,171.7	9,937.2	43.7	34.9	-172.12	-203.1	-287.5	1,533.1	1,482.1	50.97	30.078	
11,229.9	11,144.0	10,173.7	9,937.8	43.8	35.0	-171.99	-205.0	-287.7	1,558.5	1,507.8	50.63	30.780	
11,300.0	11,213.6	10,178.2	9,939.1	44.1	35.0	-171.88	-209.3	-288.3	1,618.4	1,568.5	49.87	32.450	
11,400.0	11,312.9	10,184.3	9,940.8	44.5	35.0	-171.76	-215.1	-289.0	1,704.4	1,655.6	48.86	34.880	
11,500.0	11,412.4	10,211.0	9,947.5	44.9	35.1	-170.50	-240.8	-291.8	1,791.5	1,743.2	48.27	37.114	
11,600.0	11,512.1	10,211.0	9,947.5	45.3	35.1	-170.79	-240.8	-291.8	1,878.3	1,830.9	47.32	39.690	
11,700.0	11,611.9	10,211.0	9,947.5	45.7	35.1	-171.07	-240.8	-291.8	1,965.5	1,919.0	46.46	42.307	
11,800.0	11,711.8	10,211.0	9,947.5	46.0	35.1	-171.35	-240.8	-291.8	2,053.0	2,007.4	45.67	44.956	
11,900.0	11,811.7	10,211.0	9,947.5	46.4	35.1	-171.62	-240.8	-291.8	2,140.9	2,096.0	44.95	47.630	
12,000.0	11,911.7	10,211.0	9,947.5	46.7	35.1	-171.89	-240.8	-291.8	2,229.0	2,184.7	44.29	50.322	
12,015.3	11,927.0	10,211.0	9,947.5	46.7	35.1	120.35	-240.8	-291.8	2,242.5	2,198.3	44.20	50.736	
12,050.0	11,961.7	10,211.0	9,947.5	46.8	35.1	-59.15	-240.8	-291.8	2,273.0	2,229.0	43.98	51.681	
12,100.0	12,011.4	10,211.0	9,947.5	47.0	35.1	-52.11	-240.8	-291.8	2,316.1	2,272.4	43.66	53.053	
12,150.0	12,060.5	10,211.0	9,947.5	47.1	35.1	-46.23	-240.8	-291.8	2,358.1	2,314.8	43.32	54.432	
12,200.0	12,108.5	10,211.0	9,947.5	47.3	35.1	-41.39	-240.8	-291.8	2,398.8	2,355.8	42.99	55.806	
12,250.0	12,155.2	10,211.0	9,947.5	47.4	35.1	-37.41	-240.8	-291.8	2,437.9	2,395.3	42.65	57.165	
12,300.0	12,200.1	10,211.0	9,947.5	47.5	35.1	-34.14	-240.8	-291.8	2,475.2	2,432.9	42.31	58.499	
12,350.0	12,243.0	10,211.0	9,947.5	47.6	35.1	-31.44	-240.8	-291.8	2,510.5	2,468.5	41.98	59.796	
12,400.0	12,283.5	10,249.1	9,954.8	47.7	35.2	-28.86	-278.0	-295.2	2,541.9	2,499.9	42.03	60.475	
12,450.0	12,321.2	10,255.6	9,955.8	47.8	35.2	-27.03	-284.4	-295.7	2,572.1	2,530.3	41.77	61.575	
12,500.0	12,355.9	10,262.4	9,956.7	47.9	35.3	-25.53	-291.2	-296.2	2,599.6	2,558.0	41.53	62.602	
12,550.0	12,387.4	10,305.0	9,960.6	47.9	35.4	-24.12	-333.4	-299.1	2,625.7	2,584.2	41.59	63.128	
12,600.0	12,415.4	10,305.0	9,960.6	48.0	35.4	-23.17	-333.4	-299.1	2,647.1	2,605.8	41.31	64.072	
12,650.0	12,439.6	10,305.0	9,960.6	48.1	35.4	-22.40	-333.4	-299.1	2,665.5	2,624.4	41.07	64.904	
12,700.0	12,460.0	10,305.0	9,960.6	48.1	35.4	-21.79	-333.4	-299.1	2,681.0	2,640.1	40.86	65.606	
12,750.0	12,476.3	10,305.0	9,960.6	48.2	35.4	-21.32	-333.4	-299.1	2,693.4	2,652.7	40.71	66.167	
12,800.0	12,488.4	10,305.0	9,960.6	48.3	35.4	-20.98	-333.4	-299.1	2,702.8	2,662.2	40.60	66.574	
12,850.0	12,496.2	10,305.0	9,960.6	48.3	35.4	-20.75	-333.4	-299.1	2,709.0	2,668.5	40.54	66.818	
12,900.0	12,499.8	10,321.0	9,961.2	48.4	35.5	-20.66	-349.5	-299.9	2,711.8	2,671.2	40.60	66.788	
12,915.3	12,500.0	10,323.1	9,961.3	48.5	35.5	-20.65	-351.5	-299.9	2,712.0	2,671.4	40.62	66.768	
13,000.0	12,500.0	10,337.0	9,961.3	48.6	35.5	-20.68	-365.4	-300.3	2,713.1	2,672.3	40.76	66.561	
13,100.0	12,500.0	10,421.9	9,960.5	48.9	35.9	-20.77	-450.3	-301.0	2,715.1	2,673.9	41.17	65.944	
13,182.7	12,500.0	10,517.9	9,960.6	49.1	36.3	-20.80	-546.3	-300.7	2,715.3	2,673.7	41.63	65.218	
13,199.3	12,500.0	10,529.2	9,960.6	49.2	36.4	-20.80	-557.6	-300.7	2,715.3	2,673.6	41.70	65.112	
13,200.0	12,500.0	10,529.7	9,960.6	49.2	36.4	-20.80	-558.1	-300.7	2,715.3	2,673.6	41.71	65.107	
13,300.0	12,500.0	10,610.9	9,959.6	49.5	36.8	-20.77	-639.3	-301.6	2,715.9	2,673.7	42.18	64.394	
13,400.0	12,500.0	10,774.8	9,959.5	50.0	37.8	-20.71	-803.2	-303.5	2,715.3	2,672.2	43.10	63.008	
13,481.0	12,500.0	10,811.0	9,959.7	50.3	38.1	-20.71	-839.4	-303.8	2,714.6	2,671.2	43.44	62.493	
13,500.0	12,500.0	10,818.8	9,959.6	50.4	38.1	-20.70	-847.2	-303.9	2,714.7	2,671.2	43.52	62.378	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #122H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 172-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,600.0	12,500.0	10,874.0	9,958.1	50.9	38.5	-20.67	-902.3	-304.9	2,716.3	2,672.2	44.05	61.663	
13,700.0	12,500.0	10,963.7	9,954.5	51.5	39.2	-20.60	-991.9	-306.5	2,719.1	2,674.3	44.78	60.720	
13,800.0	12,500.0	11,122.3	9,951.0	52.1	40.5	-20.51	-1,150.4	-309.1	2,720.5	2,674.5	45.94	59.223	
13,900.0	12,500.0	11,254.2	9,950.4	52.8	41.6	-20.45	-1,282.3	-311.4	2,720.1	2,673.0	47.07	57.792	
14,000.0	12,500.0	11,358.4	9,950.7	53.5	42.6	-20.41	-1,386.6	-313.2	2,719.1	2,671.0	48.09	56.536	
14,100.0	12,500.0	11,446.9	9,950.7	54.2	43.4	-20.37	-1,475.0	-314.8	2,718.2	2,669.2	49.05	55.415	
14,181.7	12,500.0	11,512.0	9,950.4	54.9	44.1	-20.34	-1,540.1	-316.0	2,718.0	2,668.2	49.82	54.560	
14,200.0	12,500.0	11,526.6	9,950.3	55.0	44.2	-20.33	-1,554.7	-316.3	2,718.0	2,668.0	49.99	54.373	
14,300.0	12,500.0	11,613.7	9,949.3	55.9	45.2	-20.29	-1,641.8	-317.5	2,718.4	2,667.4	51.02	53.284	
14,400.0	12,500.0	11,704.6	9,948.1	56.7	46.1	-20.26	-1,732.7	-318.3	2,719.2	2,667.1	52.11	52.178	
14,500.0	12,500.0	11,793.6	9,946.7	57.6	47.1	-20.23	-1,821.6	-318.9	2,720.3	2,667.1	53.23	51.102	
14,600.0	12,500.0	11,925.5	9,945.2	58.6	48.6	-20.21	-1,953.6	-318.7	2,721.3	2,666.6	54.73	49.722	
14,692.9	12,500.0	12,030.5	9,945.3	59.4	49.8	-20.22	-2,058.6	-318.0	2,721.3	2,665.3	56.04	48.558	
14,700.0	12,500.0	12,012.0	9,945.2	59.5	49.6	-20.21	-2,040.1	-318.2	2,721.4	2,665.5	55.92	48.666	
14,800.0	12,500.0	12,072.3	9,944.8	60.5	50.3	-20.22	-2,100.4	-317.4	2,722.6	2,665.7	56.93	47.824	
14,900.0	12,500.0	12,166.6	9,942.6	61.5	51.5	-20.24	-2,194.6	-315.1	2,725.4	2,667.1	58.25	46.790	
15,000.0	12,500.0	15,000.0	9,942.4	62.6	86.6	-20.34	-2,324.8	-309.7	2,726.7	2,646.5	80.22	33.991	
15,100.0	12,500.0	12,358.5	9,942.0	63.7	53.9	-20.38	-2,386.4	-307.3	2,728.5	2,667.5	61.06	44.684	
15,200.0	12,500.0	15,200.0	9,939.8	64.8	90.3	-20.40	-2,490.7	-304.9	2,731.2	2,647.6	83.57	32.681	
15,300.0	12,500.0	12,552.2	9,938.5	65.9	56.3	-20.43	-2,579.9	-302.3	2,733.5	2,669.5	63.93	42.759	
15,400.0	12,500.0	12,665.4	9,935.1	67.0	57.8	-20.41	-2,693.1	-301.4	2,736.5	2,671.0	65.50	41.780	
15,500.0	12,500.0	12,737.1	9,933.1	68.2	58.8	-20.41	-2,764.7	-300.5	2,739.3	2,672.6	66.73	41.050	
15,600.0	12,500.0	12,813.8	9,930.4	69.4	59.8	-20.41	-2,841.3	-299.0	2,743.2	2,675.2	68.03	40.323	
15,700.0	12,500.0	12,895.8	9,927.0	70.6	60.9	-20.42	-2,923.2	-297.1	2,747.8	2,678.4	69.39	39.597	
15,800.0	12,500.0	13,243.0	9,925.3	71.8	65.7	-20.42	-3,270.1	-294.8	2,748.6	2,675.3	73.30	37.499	
15,900.0	12,500.0	13,280.9	9,926.7	73.0	66.3	-20.43	-3,308.0	-294.7	2,745.4	2,671.2	74.26	36.972	
15,970.4	12,500.0	13,301.7	9,926.9	73.9	66.6	-20.43	-3,328.8	-294.6	2,744.8	2,669.9	74.88	36.655	
16,000.0	12,500.0	13,334.0	9,926.4	74.3	67.0	-20.43	-3,361.1	-294.4	2,745.2	2,669.9	75.37	36.422	
16,002.8	12,500.0	13,334.0	9,926.4	74.3	67.0	-20.43	-3,361.1	-294.4	2,745.2	2,669.9	75.39	36.414	
16,100.0	12,500.0	13,362.0	9,925.6	75.6	67.4	-20.43	-3,389.1	-294.2	2,746.9	2,670.6	76.26	36.022	
16,200.0	12,500.0	13,503.7	9,923.5	76.9	69.4	-20.44	-3,530.8	-292.1	2,748.6	2,670.4	78.28	35.115	
16,300.0	12,500.0	13,600.4	9,923.2	78.2	70.8	-20.47	-3,627.5	-289.9	2,749.6	2,669.7	79.89	34.418	
16,400.0	12,500.0	13,667.2	9,922.6	79.5	71.8	-20.50	-3,694.2	-287.9	2,751.3	2,670.1	81.21	33.878	
16,500.0	12,500.0	13,739.1	9,921.2	80.8	72.8	-20.53	-3,766.1	-285.5	2,754.2	2,671.6	82.60	33.345	
16,600.0	12,500.0	13,810.7	9,919.2	82.1	73.9	-20.57	-3,837.6	-282.7	2,758.0	2,674.0	83.99	32.837	
16,700.0	12,500.0	13,863.7	9,917.2	83.5	74.7	-20.60	-3,890.5	-280.0	2,763.2	2,678.0	85.20	32.431	
16,800.0	12,500.0	14,131.4	9,912.3	84.8	78.6	-20.65	-4,158.0	-274.5	2,764.2	2,675.6	88.62	31.191	
16,900.0	12,500.0	14,277.1	9,913.7	86.2	80.8	-20.68	-4,303.6	-272.9	2,763.6	2,672.8	90.80	30.437	
17,000.0	12,500.0	17,000.0	9,918.5	87.6	121.7	-20.74	-4,450.3	-271.1	2,760.8	2,645.2	115.57	23.889	
17,100.0	12,500.0	14,483.3	9,920.5	89.0	83.9	-20.75	-4,509.7	-270.6	2,757.8	2,663.5	94.34	29.234	
17,196.9	12,500.0	14,529.0	9,920.6	90.3	84.5	-20.74	-4,555.4	-271.2	2,757.1	2,661.6	95.44	28.888	
17,200.0	12,500.0	14,529.0	9,920.6	90.4	84.5	-20.74	-4,555.4	-271.2	2,757.1	2,661.6	95.46	28.882	
17,300.0	12,500.0	14,658.9	9,919.8	91.8	86.5	-20.67	-4,685.2	-273.8	2,756.8	2,659.4	97.39	28.308	
17,400.0	12,500.0	14,745.4	9,920.4	93.2	87.8	-20.66	-4,771.7	-274.5	2,755.7	2,656.8	98.94	27.854	
17,427.4	12,500.0	14,759.3	9,920.4	93.6	88.0	-20.65	-4,785.7	-274.7	2,755.7	2,656.4	99.26	27.762	
17,500.0	12,500.0	14,812.0	9,919.5	94.6	88.8	-20.63	-4,838.3	-275.4	2,756.2	2,656.0	100.26	27.490	
17,600.0	12,500.0	14,893.6	9,917.6	96.0	90.1	-20.59	-4,919.9	-276.2	2,757.7	2,656.0	101.74	27.106	
17,700.0	12,500.0	14,961.6	9,916.2	97.5	91.1	-20.57	-4,987.9	-276.2	2,759.6	2,656.5	103.10	26.766	
17,800.0	12,500.0	15,036.4	9,913.7	98.9	92.2	-20.56	-5,062.6	-275.6	2,762.8	2,658.2	104.53	26.430	
17,900.0	12,500.0	15,142.3	9,910.6	100.4	93.9	-20.58	-5,168.4	-273.1	2,766.2	2,659.8	106.35	26.010	
18,000.0	12,500.0	15,288.1	9,906.4	101.8	96.1	-20.54	-5,314.2	-273.0	2,768.8	2,660.3	108.52	25.513	
18,100.0	12,500.0	15,403.6	9,905.6	103.3	97.9	-20.55	-5,429.7	-271.8	2,769.7	2,659.3	110.45	25.078	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #122H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 172-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,200.0	12,500.0	15,471.0	9,904.1	104.7	98.9	-20.53	-5,497.1	-271.9	2,771.5	2,659.7	111.81	24.787	
18,300.0	12,500.0	15,549.2	9,901.2	106.2	100.1	-20.48	-5,575.3	-273.0	2,774.3	2,661.0	113.25	24.498	
18,400.0	12,500.0	15,622.0	9,898.0	107.7	101.3	-20.43	-5,648.0	-274.0	2,777.7	2,663.1	114.62	24.234	
18,500.0	12,500.0	15,828.8	9,892.5	109.2	104.5	-20.30	-5,854.6	-277.7	2,779.1	2,661.8	117.34	23.685	
18,600.0	12,500.0	15,907.4	9,891.5	110.7	105.7	-20.26	-5,933.2	-279.0	2,779.6	2,660.8	118.80	23.397	
18,700.0	12,500.0	16,052.1	9,890.4	112.2	107.9	-20.24	-6,077.9	-279.3	2,780.3	2,659.3	120.99	22.979	
18,703.6	12,500.0	18,703.6	9,890.4	112.2	149.3	-20.24	-6,050.1	-279.3	2,780.3	2,635.6	144.69	19.215	
18,800.0	12,500.0	16,077.8	9,889.9	113.7	108.3	-20.23	-6,103.5	-279.3	2,781.1	2,659.2	121.95	22.806	
18,900.0	12,500.0	16,287.1	9,885.6	115.2	111.6	-20.14	-6,312.7	-281.6	2,784.0	2,659.3	124.71	22.324	
19,000.0	12,500.0	16,348.5	9,886.5	116.7	112.6	-20.13	-6,374.1	-282.0	2,782.4	2,656.4	126.07	22.071	
19,100.0	12,500.0	19,100.0	9,893.2	118.2	156.1	-20.18	-6,634.0	-280.7	2,781.7	2,629.8	151.92	18.310	
19,200.0	12,500.0	16,660.5	9,896.8	119.7	117.5	-20.23	-6,685.5	-279.5	2,776.1	2,645.2	130.88	21.210	
19,300.0	12,500.0	16,699.0	9,898.5	121.2	118.1	-20.24	-6,724.0	-279.0	2,772.5	2,640.4	132.09	20.989	
19,400.0	12,500.0	16,733.8	9,899.0	122.7	118.7	-20.25	-6,758.8	-278.9	2,771.3	2,638.1	133.20	20.805	
19,400.7	12,500.0	16,734.0	9,899.0	122.7	118.7	-20.25	-6,759.0	-278.9	2,771.3	2,638.1	133.21	20.804	
19,500.0	12,500.0	16,792.0	9,897.2	124.2	119.6	-20.21	-6,817.0	-279.7	2,772.9	2,638.4	134.47	20.622	
19,600.0	12,500.0	16,801.2	9,896.6	125.8	119.7	-20.21	-6,826.2	-279.9	2,776.2	2,641.0	135.18	20.536	
19,700.0	12,500.0	16,874.5	9,891.9	127.3	120.9	-20.14	-6,899.3	-281.1	2,781.4	2,644.9	136.52	20.373	
19,800.0	12,500.0	17,212.5	9,887.3	128.8	126.2	-20.00	-7,237.0	-285.5	2,780.4	2,639.7	140.66	19.766	
19,900.0	12,500.0	17,264.0	9,888.5	130.4	127.0	-19.99	-7,288.5	-285.8	2,778.1	2,636.2	141.96	19.570	
19,977.6	12,500.0	17,311.5	9,888.8	131.6	127.8	-19.98	-7,336.0	-286.3	2,777.4	2,634.4	143.00	19.422	
20,000.0	12,500.0	17,321.1	9,888.7	131.9	127.9	-19.98	-7,345.6	-286.4	2,777.5	2,634.2	143.26	19.388	
20,100.0	12,500.0	17,368.8	9,887.5	133.4	128.7	-19.95	-7,393.3	-287.2	2,779.0	2,634.5	144.41	19.243	
20,200.0	12,500.0	17,607.3	9,888.7	135.0	132.5	-20.00	-7,631.5	-283.8	2,778.9	2,631.1	147.77	18.806	
20,300.0	12,500.0	17,675.7	9,890.7	136.5	133.6	-20.05	-7,700.0	-281.7	2,777.0	2,627.6	149.34	18.595	
20,400.0	12,500.0	17,800.8	9,894.6	138.1	135.6	-20.18	-7,824.8	-276.3	2,775.4	2,623.8	151.63	18.303	
20,500.0	12,500.0	17,889.9	9,898.7	139.6	137.0	-20.29	-7,913.7	-271.4	2,773.0	2,619.4	153.56	18.057	
20,589.4	12,500.0	17,924.0	9,899.9	141.0	137.6	-20.33	-7,947.7	-269.7	2,771.8	2,617.1	154.67	17.920	
20,600.0	12,500.0	17,924.0	9,899.9	141.2	137.6	-20.33	-7,947.7	-269.7	2,771.8	2,617.1	154.75	17.912	
20,700.0	12,500.0	17,960.5	9,900.2	142.7	138.2	-20.36	-7,984.2	-268.0	2,773.0	2,617.1	155.90	17.787	
20,800.0	12,500.0	17,984.4	9,899.6	144.3	138.6	-20.38	-8,008.1	-266.8	2,777.0	2,620.2	156.80	17.711	
20,900.0	12,500.0	20,900.0	9,895.5	145.9	185.3	-20.40	-8,075.9	-264.0	2,783.7	2,599.5	184.14	15.117	
21,000.0	12,500.0	18,423.8	9,888.6	147.4	145.6	-20.37	-8,447.0	-261.5	2,785.9	2,622.8	163.07	17.084	
21,100.0	12,500.0	18,627.9	9,897.7	149.0	148.9	-20.41	-8,650.8	-261.7	2,782.2	2,616.3	165.88	16.772	
21,200.0	12,500.0	18,697.2	9,903.2	150.5	150.0	-20.49	-8,719.8	-259.4	2,775.8	2,608.2	167.62	16.560	
21,300.0	12,500.0	18,771.5	9,908.2	152.1	151.2	-20.57	-8,794.0	-256.9	2,770.5	2,601.1	169.39	16.355	
21,400.0	12,500.0	18,816.4	9,910.6	153.7	151.9	-20.61	-8,838.8	-255.6	2,766.5	2,595.7	170.80	16.198	
21,500.0	12,500.0	18,871.0	9,912.0	155.3	152.8	-20.64	-8,893.3	-254.0	2,764.7	2,592.5	172.25	16.051	
21,600.0	12,500.0	18,941.5	9,913.0	156.8	153.9	-20.69	-8,963.7	-251.5	2,764.3	2,590.5	173.88	15.898	
21,633.6	12,500.0	18,974.4	9,913.6	157.4	154.5	-20.72	-8,996.6	-250.0	2,764.3	2,589.7	174.55	15.836	
21,700.0	12,500.0	19,007.2	9,913.9	158.4	155.0	-20.75	-9,029.4	-248.6	2,764.6	2,589.2	175.45	15.757	
21,800.0	12,500.0	19,063.1	9,913.6	160.0	155.9	-20.79	-9,085.2	-246.2	2,766.5	2,589.6	176.85	15.643	
21,900.0	12,500.0	19,165.5	9,911.6	161.6	157.5	-20.82	-9,187.6	-243.3	2,769.1	2,590.3	178.79	15.488	
22,000.0	12,500.0	19,283.2	9,909.4	163.1	159.4	-20.84	-9,305.2	-241.0	2,771.4	2,590.5	180.89	15.321	
22,100.0	12,500.0	19,403.6	9,908.5	164.7	161.4	-20.88	-9,425.5	-238.1	2,772.8	2,589.8	183.05	15.147	
22,200.0	12,500.0	19,499.7	9,908.3	166.3	162.9	-20.93	-9,521.6	-234.9	2,774.0	2,589.0	184.98	14.996	
22,300.0	12,500.0	19,569.1	9,907.9	167.9	164.1	-20.97	-9,591.0	-232.6	2,775.7	2,589.2	186.53	14.880	
22,400.0	12,500.0	22,400.0	9,905.5	169.5	209.8	-21.00	-9,703.8	-229.8	2,778.5	2,564.7	213.78	12.997	
22,500.0	12,500.0	20,008.0	9,915.9	171.0	171.2	-21.31	-10,028.4	-216.2	2,777.9	2,584.4	193.49	14.357	
22,600.0	12,500.0	20,047.7	9,919.6	172.6	171.8	-21.40	-10,067.7	-212.7	2,772.5	2,577.5	195.07	14.213	
22,700.0	12,500.0	20,101.0	9,921.8	174.2	172.7	-21.48	-10,120.9	-209.2	2,770.3	2,573.6	196.70	14.084	
22,762.8	12,500.0	20,101.0	9,921.8	175.2	172.7	-21.48	-10,120.9	-209.2	2,769.6	2,572.3	197.21	14.044	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #122H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 172-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
22,800.0	12,500.0	20,115.6	9,921.9	175.8	172.9	-21.49	-10,135.4	-208.5	2,769.8	2,572.1	197.68	14.012	
22,900.0	12,500.0	20,217.8	9,920.8	177.4	174.6	-21.47	-10,237.6	-208.8	2,770.5	2,571.0	199.50	13.887	
23,000.0	12,500.0	20,307.3	9,918.6	179.0	176.0	-21.39	-10,327.1	-211.7	2,771.4	2,570.4	201.01	13.787	
23,100.0	12,500.0	20,397.9	9,915.8	180.6	177.5	-21.29	-10,417.6	-215.3	2,772.7	2,570.2	202.48	13.693	
23,200.0	12,500.0	20,477.4	9,912.8	182.2	178.7	-21.20	-10,496.9	-218.7	2,774.5	2,570.7	203.82	13.612	
23,300.0	12,500.0	20,556.2	9,909.2	183.8	180.0	-21.10	-10,575.5	-222.1	2,777.1	2,572.0	205.13	13.538	
23,400.0	12,500.0	20,697.0	9,903.7	185.4	182.3	-20.93	-10,716.1	-228.3	2,778.9	2,571.9	207.00	13.425	
23,500.0	12,500.0	23,500.0	9,899.2	187.0	227.3	-20.79	-10,820.6	-233.2	2,781.1	2,547.8	233.38	11.917	
23,600.0	12,500.0	20,942.9	9,896.5	188.6	186.2	-20.65	-10,961.6	-238.7	2,781.2	2,570.8	210.43	13.216	
23,700.0	12,500.0	21,081.4	9,895.5	190.2	188.4	-20.54	-11,100.0	-243.6	2,780.5	2,568.2	212.35	13.094	
23,800.0	12,500.0	21,233.5	9,897.5	191.8	190.9	-20.46	-11,252.0	-247.9	2,778.2	2,563.8	214.44	12.956	
23,900.0	12,500.0	21,331.4	9,899.9	193.4	192.5	-20.42	-11,349.9	-250.4	2,774.9	2,558.7	216.15	12.838	
24,000.0	12,500.0	21,391.5	9,901.4	195.0	193.5	-20.42	-11,410.0	-250.8	2,772.2	2,554.6	217.61	12.740	
24,100.0	12,500.0	21,457.5	9,902.2	196.6	194.5	-20.42	-11,476.0	-250.5	2,771.1	2,552.0	219.12	12.646	
24,185.2	12,500.0	21,525.0	9,902.4	197.9	195.6	-20.43	-11,543.5	-250.1	2,770.8	2,550.3	220.50	12.566	
24,200.0	12,500.0	21,525.0	9,902.4	198.2	195.6	-20.43	-11,543.5	-250.1	2,770.8	2,550.2	220.61	12.560	
24,300.0	12,500.0	21,593.8	9,901.8	199.8	196.7	-20.42	-11,612.3	-250.0	2,771.7	2,549.7	222.06	12.482	
24,400.0	12,500.0	21,655.4	9,900.1	201.4	197.7	-20.40	-11,673.9	-249.9	2,774.1	2,550.7	223.37	12.419	
24,500.0	12,500.0	21,824.6	9,895.6	203.0	200.5	-20.39	-11,842.9	-248.2	2,777.5	2,551.5	226.01	12.289	
24,600.0	12,500.0	21,920.4	9,895.6	204.6	202.1	-20.41	-11,938.7	-246.5	2,778.0	2,550.1	227.87	12.191	
24,700.0	12,500.0	21,984.9	9,894.8	206.2	203.1	-20.42	-12,003.2	-245.7	2,779.3	2,550.0	229.31	12.120	
24,800.0	12,500.0	22,076.6	9,892.9	207.8	204.6	-20.42	-12,094.9	-244.5	2,781.5	2,550.5	231.05	12.039	
24,887.2	12,500.0	22,160.3	9,891.5	209.2	206.0	-20.44	-12,178.5	-242.5	2,783.6	2,550.9	232.68	11.963	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #132H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 29-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-71.91	29.5	-90.2	94.9				
100.0	100.0	99.7	99.7	0.1	0.3	-71.99	29.4	-90.4	95.0	94.7	0.38	250.593	
200.0	200.0	199.3	199.3	0.5	0.6	-72.37	28.9	-91.1	95.6	94.5	1.09	87.691	
300.0	300.0	299.2	299.2	0.8	1.0	-72.70	28.7	-92.1	96.4	94.6	1.80	53.490	
400.0	400.0	399.6	399.6	1.2	1.3	-72.62	29.0	-92.7	97.2	94.6	2.52	38.625	
500.0	500.0	500.3	500.3	1.6	1.7	-72.47	29.3	-92.6	97.1	93.9	3.22	30.145	
600.0	600.0	600.5	600.5	1.9	2.0	-72.36	29.3	-92.2	96.8	92.9	3.92	24.676	
700.0	700.0	700.8	700.8	2.3	2.3	-72.99	28.1	-91.8	96.0	91.4	4.63	20.752	
800.0	800.0	800.5	800.5	2.6	2.7	-73.29	27.4	-91.2	95.3	89.9	5.33	17.864	
900.0	900.0	900.4	900.4	3.0	3.0	-73.50	27.0	-91.0	94.9	88.9	6.04	15.712	
1,000.0	1,000.0	1,000.6	1,000.6	3.4	3.4	-73.97	26.0	-90.7	94.3	87.6	6.75	13.970	
1,100.0	1,100.0	1,100.3	1,100.2	3.7	3.8	-74.67	24.8	-90.5	93.9	86.4	7.46	12.575	
1,157.7	1,157.7	1,157.8	1,157.7	3.9	4.0	-75.32	23.8	-90.7	93.8	85.9	7.87	11.914	
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	-75.49	23.5	-90.8	93.8	85.6	8.17	11.480	
1,300.0	1,300.0	1,300.7	1,300.6	4.4	4.4	-74.07	25.7	-90.0	93.6	84.7	8.88	10.545	
1,357.3	1,357.3	1,357.5	1,357.3	4.6	4.6	-71.92	29.0	-88.7	93.3	84.0	9.28	10.057 CC	
1,400.0	1,400.0	1,399.4	1,399.0	4.8	4.8	-70.03	31.9	-87.9	93.5	84.0	9.58	9.767 ES	
1,500.0	1,500.0	1,496.6	1,496.0	5.1	5.1	-65.28	40.2	-87.2	96.1	85.8	10.27	9.358	
1,600.0	1,600.0	1,595.2	1,594.1	5.5	5.5	69.51	49.4	-88.1	100.9	89.9	10.95	9.210	
1,700.0	1,700.0	1,692.7	1,691.2	5.8	5.8	74.45	58.7	-90.3	107.1	95.5	11.61	9.221	
1,800.0	1,799.9	1,791.3	1,789.2	6.2	6.2	78.98	67.6	-94.4	114.9	102.6	12.29	9.352	
1,900.0	1,899.7	1,890.8	1,888.3	6.5	6.5	83.49	76.4	-99.0	123.3	110.3	12.98	9.501	
2,000.0	1,999.4	1,987.5	1,984.4	6.8	6.9	87.32	84.4	-105.1	133.1	119.5	13.64	9.761	
2,100.0	2,098.9	2,085.0	2,081.2	7.2	7.3	90.76	92.7	-113.2	144.9	130.5	14.31	10.120	
2,200.0	2,198.3	2,184.8	2,180.2	7.5	7.6	94.04	100.8	-122.3	157.4	142.3	15.03	10.471	
2,300.0	2,297.4	2,284.9	2,279.7	7.9	8.0	97.28	107.8	-131.2	169.4	153.7	15.76	10.753	
2,313.7	2,311.0	2,298.1	2,292.8	8.0	8.0	97.72	108.7	-132.3	171.1	155.3	15.85	10.797	
2,400.0	2,396.4	2,381.0	2,375.2	8.3	8.4	100.47	115.1	-139.7	182.8	166.3	16.45	11.111	
2,500.0	2,495.4	2,478.5	2,471.9	8.7	8.7	103.33	123.6	-148.8	197.8	180.6	17.17	11.523	
2,600.0	2,594.4	2,577.2	2,569.8	9.0	9.1	105.95	132.1	-157.4	212.9	195.0	17.90	11.894	
2,700.0	2,693.4	2,673.9	2,665.6	9.4	9.5	107.99	140.9	-166.7	229.2	210.6	18.62	12.313	
2,800.0	2,792.4	2,776.0	2,766.9	9.8	9.9	109.71	149.7	-177.1	245.4	226.0	19.40	12.651	
2,900.0	2,891.4	2,876.2	2,866.4	10.2	10.3	111.17	156.4	-186.8	260.0	239.8	20.16	12.894	
3,009.7	3,000.0	2,981.1	2,970.5	10.6	10.7	112.71	164.7	-196.3	277.0	256.1	20.95	13.223	
3,100.0	3,089.4	3,072.7	3,061.4	11.0	11.0	107.86	172.5	-204.0	290.9	269.2	21.65	13.433	
3,200.0	3,188.6	3,168.7	3,156.8	11.4	11.4	101.43	180.0	-211.5	303.8	281.4	22.38	13.577	
3,300.0	3,287.8	3,265.6	3,253.0	11.8	11.8	94.08	189.1	-219.4	316.5	293.4	23.11	13.698	
3,400.0	3,387.1	3,379.3	3,366.0	12.2	12.2	86.66	198.3	-226.4	325.9	301.9	23.99	13.588	
3,500.0	3,486.4	3,476.0	3,462.5	12.5	12.6	79.02	204.1	-231.0	331.2	306.5	24.72	13.399	
3,600.0	3,585.6	3,579.6	3,565.7	12.9	13.0	71.57	209.9	-237.3	334.7	309.2	25.50	13.124	
3,700.0	3,684.8	3,680.7	3,666.6	13.3	13.4	64.62	214.5	-244.3	335.3	309.1	26.27	12.766	
3,726.9	3,711.5	3,705.3	3,691.0	13.4	13.5	62.84	215.7	-246.1	335.3	308.9	26.46	12.674	
3,762.2	3,746.4	3,737.6	3,723.1	13.5	13.6	60.58	217.5	-248.8	335.4	308.6	26.70	12.559	
3,800.0	3,783.9	3,772.6	3,758.0	13.7	13.7	60.82	219.7	-251.9	335.6	308.7	26.97	12.445	
3,900.0	3,882.9	3,869.7	3,854.3	14.1	14.1	61.41	226.8	-260.9	337.3	309.6	27.71	12.173	
4,000.0	3,982.0	3,971.4	3,955.4	14.4	14.5	62.02	233.9	-270.4	338.7	310.2	28.50	11.886	
4,100.0	4,081.1	4,064.6	4,047.9	14.8	14.9	62.65	241.3	-278.7	341.2	311.9	29.21	11.681	
4,200.0	4,180.1	4,159.3	4,141.7	15.2	15.2	63.34	250.8	-286.9	345.6	315.7	29.92	11.551	
4,300.0	4,279.2	4,261.3	4,242.8	15.6	15.6	64.10	261.2	-295.5	350.4	319.6	30.73	11.403	
4,400.0	4,378.2	4,362.3	4,343.1	16.0	16.1	64.86	271.0	-303.8	354.6	323.1	31.52	11.252	
4,500.0	4,477.3	4,463.6	4,443.6	16.4	16.5	65.67	280.5	-311.8	358.7	326.3	32.31	11.100	
4,600.0	4,576.4	4,571.5	4,550.8	16.8	16.9	66.61	289.6	-319.6	361.8	328.6	33.16	10.909	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #132H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 29-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,700.0	4,675.4	4,689.1	4,668.1	17.1	17.3	67.92	295.1	-326.2	361.2	327.2	34.04	10.612	
4,800.0	4,774.5	4,798.6	4,777.4	17.5	17.7	69.32	295.6	-331.4	356.6	321.8	34.83	10.240	
4,900.0	4,873.6	4,897.4	4,876.3	17.9	18.0	71.17	294.9	-332.8	351.2	315.6	35.57	9.872	
5,000.0	4,972.6	4,996.1	4,975.0	18.3	18.3	73.45	294.0	-331.8	346.2	309.9	36.30	9.536	
5,100.0	5,071.7	5,090.6	5,069.4	18.7	18.6	75.60	294.0	-331.4	342.6	305.5	37.04	9.249	
5,200.0	5,170.7	5,189.5	5,168.3	19.1	19.0	77.71	294.8	-331.9	340.1	302.3	37.79	8.999	
5,300.0	5,269.8	5,288.5	5,267.3	19.5	19.3	79.80	295.7	-332.6	338.1	299.6	38.54	8.773	
5,400.0	5,368.9	5,388.2	5,367.0	19.9	19.7	81.91	296.6	-333.4	336.6	297.3	39.29	8.566	
5,500.0	5,467.9	5,487.7	5,466.5	20.3	20.0	84.02	297.3	-334.4	335.4	295.3	40.04	8.376	
5,600.0	5,567.0	5,587.2	5,566.0	20.7	20.4	86.10	298.1	-335.6	334.6	293.8	40.79	8.203	
5,700.0	5,666.0	5,687.2	5,666.0	21.1	20.7	88.20	298.7	-337.0	334.0	292.5	41.53	8.043	
5,800.0	5,765.1	5,787.2	5,765.9	21.5	21.1	90.28	299.2	-338.4	333.8	291.5	42.27	7.895	
5,900.0	5,864.2	5,887.4	5,866.2	21.9	21.4	92.37	299.4	-340.0	333.7	290.7	43.01	7.757	
5,920.9	5,884.9	5,908.4	5,887.1	22.0	21.5	92.80	299.5	-340.4	333.7	290.5	43.17	7.730	
6,000.0	5,963.2	5,987.1	5,965.9	22.3	21.7	94.43	299.5	-341.8	333.8	290.0	43.74	7.630	
6,100.0	6,062.3	6,081.9	6,060.6	22.7	22.1	96.43	299.7	-343.0	334.7	290.2	44.45	7.530	
6,200.0	6,161.4	6,178.2	6,156.9	23.1	22.4	98.66	300.7	-342.5	337.6	292.5	45.14	7.480	
6,300.0	6,260.4	6,276.7	6,255.4	23.5	22.7	100.90	301.8	-341.7	341.4	295.5	45.84	7.448	
6,400.0	6,359.5	6,376.8	6,355.5	23.9	23.1	103.05	303.2	-341.3	345.6	299.1	46.55	7.425	
6,500.0	6,458.5	6,477.9	6,456.6	24.3	23.4	105.17	304.3	-341.3	349.9	302.6	47.26	7.402	
6,600.0	6,557.6	6,577.6	6,556.3	24.8	23.8	107.23	304.9	-341.4	354.1	306.2	47.97	7.383	
6,700.0	6,656.7	6,678.1	6,656.8	25.2	24.1	109.27	305.3	-341.5	358.6	310.0	48.67	7.368	
6,800.0	6,755.7	6,778.8	6,757.4	25.6	24.5	111.27	305.3	-341.9	363.2	313.8	49.37	7.355	
6,900.0	6,854.8	6,878.7	6,857.3	26.0	24.8	113.23	305.0	-342.5	367.8	317.7	50.06	7.347	
7,000.0	6,953.9	6,977.8	6,956.4	26.4	25.1	115.14	304.5	-343.0	372.7	322.0	50.74	7.346 SF	
7,100.0	7,052.9	7,076.9	7,055.6	26.8	25.5	117.02	304.0	-343.4	378.1	326.7	51.41	7.354	
7,200.0	7,152.0	7,176.3	7,154.9	27.2	25.8	118.87	303.3	-343.8	383.8	331.7	52.08	7.369	
7,300.0	7,251.0	7,275.2	7,253.9	27.6	26.1	120.69	302.4	-344.1	389.9	337.1	52.75	7.392	
7,400.0	7,350.1	7,374.5	7,353.2	28.0	26.4	122.47	301.5	-344.3	396.3	342.9	53.41	7.420	
7,500.0	7,449.2	7,473.4	7,452.1	28.4	26.8	124.19	300.4	-344.5	403.1	349.0	54.07	7.455	
7,600.0	7,548.2	7,572.4	7,551.0	28.8	27.1	125.89	299.3	-344.6	410.3	355.6	54.73	7.497	
7,700.0	7,647.3	7,671.8	7,650.4	29.3	27.4	127.55	298.0	-344.6	417.8	362.4	55.39	7.543	
7,800.0	7,746.3	7,771.7	7,750.3	29.7	27.8	129.18	296.5	-344.7	425.5	369.5	56.05	7.591	
7,900.0	7,845.4	7,871.6	7,850.2	30.1	28.1	130.75	294.9	-345.1	433.3	376.6	56.72	7.639	
8,000.0	7,944.5	7,971.5	7,950.1	30.5	28.4	132.29	293.0	-345.5	441.2	383.8	57.39	7.689	
8,100.0	8,043.5	8,070.0	8,048.6	30.9	28.7	133.75	291.1	-346.0	449.3	391.3	58.05	7.741	
8,200.0	8,142.6	8,168.4	8,146.9	31.3	29.1	135.12	289.7	-346.4	457.9	399.2	58.71	7.800	
8,300.0	8,241.7	8,265.7	8,244.3	31.7	29.4	136.43	288.2	-346.7	467.0	407.6	59.36	7.867	
8,400.0	8,340.7	8,367.5	8,346.1	32.1	29.7	137.77	286.5	-346.9	476.3	416.2	60.05	7.932	
8,500.0	8,439.8	8,463.2	8,441.7	32.5	30.1	138.89	285.6	-347.4	485.7	425.0	60.70	8.003	
8,600.0	8,538.8	8,561.6	8,540.1	33.0	30.4	139.85	286.0	-347.8	495.8	434.5	61.38	8.078	
8,700.0	8,637.9	8,660.6	8,639.1	33.4	30.8	140.73	286.9	-348.4	506.1	444.1	62.08	8.154	
8,800.0	8,737.0	8,754.0	8,732.5	33.8	31.1	141.52	288.0	-348.4	517.2	454.4	62.71	8.246	
8,900.0	8,836.0	8,857.3	8,835.8	34.2	31.4	142.34	289.3	-348.2	528.4	465.0	63.45	8.328	
9,000.0	8,935.1	8,962.3	8,940.8	34.6	31.8	143.18	290.1	-349.1	538.8	474.6	64.20	8.392	
9,100.0	9,034.2	9,062.9	9,041.4	35.0	32.2	143.99	290.3	-350.4	548.6	483.7	64.91	8.451	
9,200.0	9,133.2	9,162.4	9,140.9	35.4	32.5	144.84	289.8	-351.6	558.4	492.8	65.60	8.512	
9,300.0	9,232.3	9,256.2	9,234.7	35.8	32.8	145.68	288.6	-352.5	568.4	502.2	66.24	8.581	
9,400.0	9,331.3	9,344.1	9,322.6	36.3	33.1	146.37	288.5	-351.8	580.5	513.7	66.82	8.688	
9,500.0	9,430.4	9,441.1	9,419.6	36.7	33.5	147.02	289.5	-350.4	593.7	526.2	67.48	8.797	
9,600.0	9,529.5	9,540.8	9,519.3	37.1	33.8	147.77	289.4	-348.5	607.1	538.9	68.17	8.904	
9,700.0	9,628.5	9,643.5	9,621.9	37.5	34.1	148.61	288.2	-346.9	620.0	551.2	68.89	9.001	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #132H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 29-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,800.0	9,727.6	9,745.1	9,723.5	37.9	34.5	149.36	287.3	-345.9	632.6	563.0	69.60	9.090	
9,900.0	9,826.6	9,846.3	9,824.7	38.3	34.8	150.04	286.8	-345.3	644.9	574.6	70.30	9.173	
10,000.0	9,925.7	9,947.7	9,926.1	38.7	35.2	150.63	287.0	-345.2	656.9	585.9	71.02	9.250	
10,100.0	10,024.8	10,049.1	10,027.5	39.2	35.5	151.22	286.9	-345.4	668.7	597.0	71.74	9.321	
10,200.0	10,123.8	10,158.3	10,136.1	39.6	35.9	152.71	276.4	-345.6	679.7	607.3	72.46	9.381	
10,300.0	10,222.9	10,258.4	10,230.5	40.0	36.1	155.90	244.0	-345.8	689.9	616.9	73.00	9.451	
10,400.0	10,322.0	10,329.0	10,293.3	40.4	36.3	158.84	211.9	-345.0	703.9	630.7	73.22	9.614	
10,500.0	10,421.0	10,376.9	10,334.0	40.8	36.4	161.04	186.8	-342.9	724.6	651.7	72.92	9.936	
10,600.0	10,520.1	10,422.0	10,370.5	41.2	36.5	163.27	160.5	-339.1	753.4	681.2	72.23	10.431	
10,700.0	10,619.1	10,474.4	10,409.9	41.6	36.6	166.02	126.4	-334.1	789.4	718.0	71.40	11.057	
10,800.0	10,718.2	10,522.2	10,442.7	42.1	36.7	168.70	91.9	-329.9	831.7	761.5	70.26	11.838	
10,900.0	10,817.3	10,570.3	10,472.4	42.5	36.7	171.53	54.1	-326.9	880.1	811.1	68.98	12.759	
11,000.0	10,916.3	10,611.0	10,494.7	42.9	36.8	173.99	20.2	-325.5	934.2	866.8	67.43	13.855	
11,100.0	11,015.4	10,611.0	10,494.7	43.3	36.8	173.99	20.2	-325.5	994.5	929.6	64.94	15.315	
11,200.0	11,114.5	10,643.7	10,510.3	43.7	36.9	176.03	-8.6	-324.9	1,059.4	996.1	63.27	16.745	
11,229.9	11,144.0	10,647.9	10,512.1	43.8	36.9	176.28	-12.3	-324.9	1,079.8	1,017.2	62.66	17.232	
11,300.0	11,213.6	10,656.9	10,515.9	44.1	36.9	176.89	-20.5	-324.7	1,129.0	1,067.7	61.26	18.429	
11,400.0	11,312.9	10,668.2	10,520.3	44.5	36.9	177.64	-30.9	-324.5	1,201.4	1,142.1	59.33	20.248	
11,500.0	11,412.4	10,706.0	10,532.9	44.9	37.0	179.95	-66.5	-324.0	1,277.2	1,219.1	58.06	21.999	
11,600.0	11,512.1	10,706.0	10,532.9	45.3	37.0	179.95	-66.5	-324.0	1,353.3	1,297.2	56.16	24.097	
11,700.0	11,611.9	10,706.0	10,532.9	45.7	37.0	179.95	-66.5	-324.0	1,431.4	1,377.0	54.42	26.303	
11,800.0	11,711.8	10,706.0	10,532.9	46.0	37.0	179.95	-66.5	-324.0	1,511.0	1,458.2	52.82	28.605	
11,900.0	11,811.7	10,706.0	10,532.9	46.4	37.0	179.95	-66.5	-324.0	1,591.9	1,540.6	51.37	30.989	
12,000.0	11,911.7	10,706.0	10,532.9	46.7	37.0	179.95	-66.5	-324.0	1,674.0	1,623.9	50.05	33.445	
12,015.3	11,927.0	10,706.0	10,532.9	46.7	37.0	112.23	-66.5	-324.0	1,686.6	1,636.7	49.86	33.827	
12,050.0	11,961.7	10,706.0	10,532.9	46.8	37.0	-68.11	-66.5	-324.0	1,715.2	1,665.8	49.43	34.699	
12,100.0	12,011.4	10,706.0	10,532.9	47.0	37.0	-61.72	-66.5	-324.0	1,756.0	1,707.2	48.82	35.968	
12,150.0	12,060.5	10,706.0	10,532.9	47.1	37.0	-55.98	-66.5	-324.0	1,796.1	1,747.9	48.23	37.242	
12,200.0	12,108.5	10,706.0	10,532.9	47.3	37.0	-50.93	-66.5	-324.0	1,835.2	1,787.6	47.65	38.511	
12,250.0	12,155.2	10,706.0	10,532.9	47.4	37.0	-46.56	-66.5	-324.0	1,873.1	1,826.0	47.11	39.763	
12,300.0	12,200.1	10,706.0	10,532.9	47.5	37.0	-42.80	-66.5	-324.0	1,909.7	1,863.1	46.59	40.987	
12,350.0	12,243.0	10,706.0	10,532.9	47.6	37.0	-39.59	-66.5	-324.0	1,944.6	1,898.5	46.11	42.169	
12,400.0	12,283.5	10,745.4	10,542.0	47.7	37.1	-36.44	-104.9	-323.0	1,975.1	1,929.0	46.08	42.864	
12,450.0	12,321.2	10,751.1	10,542.9	47.8	37.1	-34.17	-110.5	-322.7	2,005.5	1,959.8	45.71	43.877	
12,500.0	12,355.9	10,757.1	10,543.8	47.9	37.1	-32.26	-116.3	-322.5	2,033.7	1,988.3	45.38	44.813	
12,550.0	12,387.4	10,799.0	10,547.2	47.9	37.2	-30.49	-158.0	-320.0	2,061.7	2,016.3	45.38	45.429	
12,600.0	12,415.4	10,799.0	10,547.2	48.0	37.2	-29.23	-158.0	-320.0	2,084.4	2,039.3	45.08	46.234	
12,650.0	12,439.6	10,799.0	10,547.2	48.1	37.2	-28.16	-158.0	-320.0	2,104.6	2,059.7	44.85	46.922	
12,700.0	12,460.0	10,799.0	10,547.2	48.1	37.2	-27.29	-158.0	-320.0	2,122.2	2,077.5	44.70	47.478	
12,750.0	12,476.3	10,799.0	10,547.2	48.2	37.2	-26.57	-158.0	-320.0	2,137.3	2,092.7	44.63	47.892	
12,800.0	12,488.4	10,799.0	10,547.2	48.3	37.2	-26.00	-158.0	-320.0	2,149.7	2,105.0	44.64	48.157	
12,850.0	12,496.2	10,799.0	10,547.2	48.3	37.2	-25.58	-158.0	-320.0	2,159.4	2,114.6	44.74	48.265	
12,900.0	12,499.8	10,828.4	10,547.4	48.4	37.3	-25.38	-187.3	-317.8	2,165.8	2,120.8	44.95	48.186	
12,915.3	12,500.0	10,834.2	10,547.4	48.5	37.3	-25.35	-193.2	-317.3	2,167.1	2,122.1	45.01	48.142	
13,000.0	12,500.0	10,866.8	10,546.9	48.6	37.4	-25.59	-225.6	-314.7	2,174.1	2,128.7	45.43	47.858	
13,100.0	12,500.0	10,914.6	10,544.8	48.9	37.5	-25.89	-273.2	-310.3	2,183.6	2,137.6	45.95	47.524	
13,182.7	12,500.0	10,973.3	10,541.5	49.1	37.7	-26.14	-331.5	-304.8	2,191.6	2,145.2	46.36	47.268	
13,200.0	12,500.0	10,988.0	10,540.6	49.2	37.8	-26.16	-346.1	-303.4	2,193.3	2,146.8	46.45	47.221	
13,300.0	12,500.0	11,121.4	10,534.0	49.5	38.3	-26.42	-478.5	-288.5	2,202.6	2,155.6	47.03	46.837	
13,400.0	12,500.0	11,365.0	10,536.6	50.0	39.6	-26.99	-720.8	-264.3	2,203.6	2,155.4	48.26	45.658	
13,500.0	12,500.0	11,436.0	10,538.1	50.4	40.0	-27.14	-791.5	-258.3	2,205.6	2,156.6	48.97	45.037	
13,600.0	12,500.0	11,509.2	10,537.7	50.9	40.5	-27.26	-864.5	-252.6	2,209.4	2,159.6	49.73	44.430	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #132H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 29-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,700.0	12,500.0	11,602.0	10,536.4	51.5	41.1	-27.39	-957.1	-245.6	2,213.8	2,163.2	50.62	43.731	
13,800.0	12,500.0	11,686.5	10,534.6	52.1	41.8	-27.49	-1,041.3	-240.2	2,218.6	2,167.1	51.52	43.063	
13,900.0	12,500.0	11,758.2	10,531.9	52.8	42.3	-27.55	-1,112.9	-235.8	2,224.5	2,172.1	52.39	42.459	
14,000.0	12,500.0	14,000.0	10,526.9	53.5	61.9	-27.69	-1,247.2	-226.7	2,230.9	2,165.0	65.95	33.830	
14,100.0	12,500.0	12,063.3	10,526.6	54.2	45.0	-27.88	-1,417.3	-217.3	2,232.9	2,177.5	55.35	40.341	
14,200.0	12,500.0	12,169.3	10,526.5	55.0	46.1	-27.97	-1,523.1	-212.7	2,234.7	2,178.1	56.63	39.461	
14,300.0	12,500.0	12,256.2	10,526.3	55.9	46.9	-28.02	-1,610.0	-210.0	2,236.3	2,178.5	57.79	38.698	
14,400.0	12,500.0	12,322.6	10,525.0	56.7	47.6	-28.05	-1,676.3	-207.9	2,239.2	2,180.4	58.81	38.074	
14,500.0	12,500.0	12,387.6	10,522.9	57.6	48.3	-28.07	-1,741.3	-205.5	2,243.6	2,183.7	59.87	37.477	
14,600.0	12,500.0	12,624.7	10,521.3	58.6	50.9	-28.16	-1,978.2	-199.7	2,244.3	2,181.9	62.44	35.945	
14,700.0	12,500.0	12,725.7	10,523.7	59.5	52.1	-28.25	-2,079.2	-196.6	2,243.5	2,179.6	63.94	35.088	
14,800.0	12,500.0	12,865.7	10,528.8	60.5	53.7	-28.41	-2,219.0	-191.4	2,241.9	2,175.9	65.95	33.993	
14,900.0	12,500.0	12,940.6	10,531.6	61.5	54.6	-28.48	-2,293.8	-189.5	2,239.6	2,172.4	67.25	33.303	
15,000.0	12,500.0	13,016.6	10,532.1	62.6	55.6	-28.47	-2,369.8	-189.8	2,238.6	2,170.1	68.51	32.675	
15,051.8	12,500.0	13,057.2	10,532.0	63.1	56.1	-28.46	-2,410.4	-190.1	2,238.5	2,169.3	69.18	32.357	
15,100.0	12,500.0	13,080.7	10,531.8	63.7	56.4	-28.45	-2,433.9	-190.2	2,238.7	2,169.0	69.67	32.135	
15,200.0	12,500.0	13,127.1	10,530.2	64.8	56.9	-28.42	-2,480.3	-190.7	2,241.0	2,170.3	70.65	31.718	
15,300.0	12,500.0	13,182.7	10,526.6	65.9	57.6	-28.35	-2,535.7	-191.6	2,245.5	2,173.8	71.72	31.310	
15,400.0	12,500.0	13,291.9	10,518.6	67.0	59.0	-28.23	-2,644.6	-192.3	2,251.6	2,178.4	73.27	30.732	
15,500.0	12,500.0	13,476.1	10,515.0	68.2	61.4	-28.23	-2,828.7	-189.3	2,253.2	2,177.5	75.76	29.740	
15,600.0	12,500.0	13,552.9	10,514.5	69.4	62.4	-28.27	-2,905.4	-186.8	2,255.0	2,177.8	77.22	29.204	
15,700.0	12,500.0	13,734.1	10,514.5	70.6	64.9	-28.36	-3,086.6	-182.0	2,256.5	2,176.7	79.88	28.248	
15,800.0	12,500.0	13,840.7	10,516.7	71.8	66.3	-28.43	-3,193.2	-179.8	2,255.5	2,173.8	81.74	27.594	
15,900.0	12,500.0	13,937.3	10,519.5	73.0	67.7	-28.49	-3,289.6	-178.1	2,253.6	2,170.1	83.50	26.989	
15,986.9	12,500.0	13,980.0	10,520.0	74.1	68.3	-28.49	-3,332.4	-178.0	2,253.0	2,168.4	84.51	26.659	
16,000.0	12,500.0	13,999.1	10,520.0	74.3	68.5	-28.50	-3,351.5	-177.9	2,252.9	2,168.1	84.81	26.565	
16,100.0	12,500.0	14,050.2	10,520.0	75.6	69.2	-28.53	-3,402.5	-176.2	2,254.3	2,168.2	86.04	26.199	
16,200.0	12,500.0	14,130.6	10,519.9	76.9	70.4	-28.64	-3,482.8	-170.6	2,257.5	2,169.7	87.72	25.734	
16,300.0	12,500.0	14,363.5	10,522.3	78.2	73.7	-28.75	-3,715.4	-166.1	2,256.5	2,165.3	91.19	24.745	
16,400.0	12,500.0	14,429.7	10,521.7	79.5	74.6	-28.67	-3,781.5	-169.2	2,254.8	2,162.3	92.49	24.379	
16,500.0	12,500.0	14,554.7	10,519.4	80.8	76.4	-28.47	-3,906.4	-176.3	2,253.6	2,159.3	94.32	23.893	
16,600.0	12,500.0	14,618.6	10,518.8	82.1	77.3	-28.40	-3,970.2	-178.7	2,252.3	2,156.7	95.62	23.555	
16,643.2	12,500.0	14,649.5	10,518.5	82.7	77.7	-28.38	-4,001.1	-179.3	2,252.2	2,156.0	96.23	23.404	
16,700.0	12,500.0	14,694.1	10,517.9	83.5	78.4	-28.36	-4,045.7	-179.9	2,252.4	2,155.3	97.09	23.198	
16,800.0	12,500.0	16,800.0	10,517.4	84.8	109.1	-28.34	-4,164.2	-180.1	2,252.4	2,134.6	117.86	19.111	
16,879.9	12,500.0	14,886.2	10,517.9	85.9	81.2	-28.33	-4,237.8	-180.1	2,251.9	2,151.4	100.52	22.404	
16,900.0	12,500.0	14,898.7	10,517.8	86.2	81.4	-28.33	-4,250.3	-180.1	2,252.0	2,151.2	100.79	22.343	
17,000.0	12,500.0	14,972.6	10,516.8	87.6	82.5	-28.32	-4,324.2	-180.0	2,253.0	2,150.7	102.30	22.022	
17,100.0	12,500.0	15,042.1	10,516.1	89.0	83.5	-28.34	-4,393.6	-178.1	2,255.0	2,151.2	103.83	21.719	
17,200.0	12,500.0	15,110.0	10,515.0	90.4	84.5	-28.41	-4,461.4	-174.1	2,258.9	2,153.5	105.40	21.432	
17,300.0	12,500.0	15,331.5	10,511.7	91.8	87.8	-28.48	-4,682.6	-168.2	2,262.2	2,153.4	108.89	20.775	
17,400.0	12,500.0	15,415.5	10,511.2	93.2	89.1	-28.42	-4,766.6	-170.5	2,261.2	2,150.7	110.49	20.465	
17,419.7	12,500.0	15,426.4	10,511.2	93.5	89.2	-28.41	-4,777.5	-170.6	2,261.2	2,150.4	110.75	20.417	
17,500.0	12,500.0	15,486.0	10,510.7	94.6	90.1	-28.42	-4,837.1	-169.9	2,261.9	2,149.9	112.02	20.192	
17,600.0	12,500.0	15,567.4	10,510.1	96.0	91.4	-28.46	-4,918.4	-167.4	2,263.7	2,150.0	113.76	19.900	
17,700.0	12,500.0	15,658.4	10,509.6	97.5	92.7	-28.51	-5,009.4	-164.3	2,265.6	2,150.0	115.64	19.591	
17,800.0	12,500.0	15,767.6	10,508.2	98.9	94.4	-28.54	-5,118.5	-161.9	2,267.6	2,149.9	117.72	19.263	
17,900.0	12,500.0	15,849.8	10,506.5	100.4	95.6	-28.53	-5,200.8	-161.0	2,269.8	2,150.4	119.40	19.009	
18,000.0	12,500.0	15,952.9	10,504.1	101.8	97.2	-28.53	-5,303.8	-159.4	2,272.3	2,150.9	121.37	18.723	
18,100.0	12,500.0	16,162.8	10,505.8	103.3	100.4	-28.54	-5,513.7	-158.8	2,270.6	2,146.0	124.69	18.210	
18,200.0	12,500.0	16,238.0	10,506.3	104.7	101.6	-28.49	-5,588.8	-160.8	2,268.7	2,142.5	126.26	17.969	
18,300.0	12,500.0	16,307.6	10,505.8	106.2	102.6	-28.45	-5,658.4	-162.4	2,268.0	2,140.3	127.74	17.755	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #132H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 29-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,302.0	12,500.0	16,309.0	10,505.8	106.2	102.7	-28.45	-5,659.8	-162.4	2,268.0	2,140.2	127.77	17.750	
18,400.0	12,500.0	16,393.2	10,505.4	107.7	104.0	-28.44	-5,744.0	-161.9	2,268.4	2,138.9	129.51	17.516	
18,500.0	12,500.0	16,479.4	10,506.5	109.2	105.3	-28.54	-5,830.1	-157.9	2,269.3	2,137.8	131.46	17.263	
18,600.0	12,500.0	16,551.3	10,505.9	110.7	106.4	-28.56	-5,901.9	-156.2	2,271.0	2,137.9	133.09	17.064	
18,700.0	12,500.0	18,700.0	10,504.6	112.2	140.1	-28.63	-6,016.7	-151.8	2,273.7	2,117.9	155.80	14.594	
18,800.0	12,500.0	16,857.2	10,507.3	113.7	111.2	-28.66	-6,207.7	-151.0	2,271.6	2,133.0	138.57	16.393	
18,900.0	12,500.0	16,919.0	10,507.5	115.2	112.1	-28.63	-6,269.4	-152.4	2,270.0	2,130.0	140.01	16.214	
18,921.8	12,500.0	16,929.0	10,507.4	115.5	112.3	-28.62	-6,279.5	-152.7	2,270.0	2,129.7	140.27	16.183	
19,000.0	12,500.0	16,965.3	10,506.3	116.7	112.9	-28.58	-6,315.7	-153.7	2,270.7	2,129.5	141.19	16.082	
19,100.0	12,500.0	17,020.7	10,503.3	118.2	113.7	-28.50	-6,371.1	-155.5	2,273.7	2,131.3	142.40	15.967	
19,200.0	12,500.0	17,090.2	10,498.7	119.7	114.8	-28.41	-6,440.4	-157.0	2,278.2	2,134.5	143.73	15.850	
19,300.0	12,500.0	17,320.0	10,494.1	121.2	118.4	-28.33	-6,669.9	-157.1	2,278.7	2,131.4	147.31	15.468	
19,326.5	12,500.0	17,334.4	10,494.3	121.6	118.6	-28.33	-6,684.3	-156.9	2,278.7	2,131.0	147.70	15.428	
19,400.0	12,500.0	17,399.5	10,493.8	122.7	119.6	-28.33	-6,749.4	-156.6	2,279.1	2,130.1	149.04	15.292	
19,498.8	12,500.0	17,506.7	10,495.1	124.2	121.3	-28.37	-6,856.6	-154.7	2,278.6	2,127.4	151.21	15.069	
19,500.0	12,500.0	17,507.5	10,495.1	124.2	121.3	-28.37	-6,857.3	-154.7	2,278.6	2,127.4	151.23	15.067	
19,600.0	12,500.0	17,598.1	10,494.1	125.8	122.8	-28.35	-6,947.9	-154.9	2,279.3	2,126.2	153.04	14.893	
19,700.0	12,500.0	17,711.9	10,493.6	127.3	124.5	-28.31	-7,061.8	-155.7	2,279.1	2,123.9	155.13	14.691	
19,734.5	12,500.0	17,744.0	10,493.4	127.8	125.1	-28.30	-7,093.8	-155.9	2,279.0	2,123.3	155.77	14.631	
19,800.0	12,500.0	17,786.1	10,492.9	128.8	125.7	-28.29	-7,136.0	-156.2	2,279.3	2,122.6	156.73	14.543	
19,900.0	12,500.0	17,855.5	10,491.1	130.4	126.8	-28.24	-7,205.3	-156.8	2,281.0	2,122.8	158.22	14.417	
20,000.0	12,500.0	18,008.4	10,486.8	131.9	129.2	-28.16	-7,358.1	-157.6	2,283.5	2,122.8	160.73	14.207	
20,100.0	12,500.0	18,144.3	10,489.2	133.4	131.4	-28.21	-7,494.0	-156.0	2,282.2	2,118.9	163.29	13.976	
20,200.0	12,500.0	18,212.0	10,490.1	135.0	132.4	-28.22	-7,561.7	-155.8	2,281.0	2,116.1	164.91	13.832	
20,232.5	12,500.0	18,240.9	10,490.2	135.5	132.9	-28.22	-7,590.6	-155.8	2,280.9	2,115.4	165.51	13.781	
20,300.0	12,500.0	18,280.4	10,490.1	136.5	133.5	-28.22	-7,630.1	-155.4	2,281.3	2,114.8	166.51	13.701	
20,400.0	12,500.0	18,355.4	10,489.6	138.1	134.7	-28.27	-7,705.0	-152.9	2,283.2	2,114.9	168.27	13.569	
20,500.0	12,500.0	18,591.6	10,490.9	139.6	138.5	-28.30	-7,941.0	-151.2	2,283.3	2,111.2	172.04	13.272	
20,600.0	12,500.0	18,647.3	10,490.7	141.2	139.4	-28.22	-7,996.7	-154.2	2,280.7	2,107.3	173.37	13.155	
20,700.0	12,500.0	20,700.0	10,489.0	142.7	171.9	-28.03	-8,107.8	-161.4	2,278.8	2,084.2	194.63	11.708	
20,800.0	12,500.0	18,872.0	10,488.9	144.3	142.9	-27.86	-8,220.9	-168.4	2,275.7	2,098.9	176.77	12.873	
20,900.0	12,500.0	18,949.2	10,488.5	145.9	144.1	-27.76	-8,298.0	-172.6	2,273.5	2,095.2	178.25	12.754	
20,997.3	12,500.0	19,006.5	10,488.5	147.4	145.0	-27.73	-8,355.2	-173.6	2,272.5	2,092.9	179.63	12.651	
21,000.0	12,500.0	19,007.9	10,488.5	147.4	145.0	-27.73	-8,356.6	-173.6	2,272.5	2,092.8	179.67	12.648	
21,100.0	12,500.0	19,061.0	10,487.9	149.0	145.9	-27.73	-8,409.7	-173.1	2,273.6	2,092.6	181.03	12.559	
21,200.0	12,500.0	19,118.8	10,486.8	150.5	146.8	-27.75	-8,467.5	-171.3	2,276.6	2,094.2	182.47	12.477	
21,300.0	12,500.0	19,185.3	10,484.7	152.1	147.9	-27.79	-8,533.8	-168.0	2,281.5	2,097.4	184.06	12.395	
21,400.0	12,500.0	19,367.3	10,479.5	153.7	150.8	-27.89	-8,715.6	-160.2	2,286.4	2,098.8	187.56	12.190	
21,500.0	12,500.0	19,459.3	10,479.9	155.3	152.3	-27.99	-8,807.5	-155.2	2,288.3	2,098.6	189.74	12.060	
21,600.0	12,500.0	19,534.0	10,479.7	156.8	153.5	-28.08	-8,882.0	-150.9	2,291.1	2,099.4	191.63	11.956	
21,700.0	12,500.0	19,669.8	10,479.3	158.4	155.7	-28.18	-9,017.7	-145.5	2,292.7	2,098.3	194.44	11.791	
21,800.0	12,500.0	19,784.2	10,477.7	160.0	157.5	-28.21	-9,132.1	-143.0	2,294.9	2,098.2	196.74	11.665	
21,900.0	12,500.0	19,887.1	10,478.3	161.6	159.2	-28.27	-9,234.9	-140.1	2,295.6	2,096.6	198.98	11.537	
22,000.0	12,500.0	19,982.3	10,476.7	163.1	160.7	-28.24	-9,330.1	-140.2	2,296.8	2,095.9	200.86	11.435	
22,100.0	12,500.0	22,100.0	10,475.8	164.7	194.7	-28.22	-9,447.2	-139.9	2,297.3	2,073.8	223.48	10.280	
22,200.0	12,500.0	20,172.6	10,475.2	166.3	163.8	-28.21	-9,520.4	-139.6	2,298.1	2,093.4	204.72	11.226	
22,300.0	12,500.0	20,326.7	10,475.6	167.9	166.2	-28.24	-9,674.5	-137.9	2,298.0	2,090.4	207.55	11.072	
22,349.4	12,500.0	20,359.4	10,475.8	168.7	166.8	-28.25	-9,707.2	-137.6	2,297.8	2,089.5	208.36	11.028	
22,400.0	12,500.0	20,400.9	10,475.7	169.5	167.4	-28.25	-9,748.7	-137.3	2,298.0	2,088.7	209.28	10.981	
22,500.0	12,500.0	20,505.7	10,476.3	171.0	169.1	-28.29	-9,853.4	-135.5	2,298.1	2,086.6	211.48	10.867	
22,600.0	12,500.0	20,621.4	10,474.6	172.6	171.0	-28.21	-9,969.1	-137.4	2,298.5	2,085.0	213.51	10.765	
22,700.0	12,500.0	20,715.2	10,475.5	174.2	172.5	-28.22	-10,062.9	-137.1	2,297.6	2,082.1	215.49	10.662	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #132H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 29-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
22,800.0	12,500.0	22,800.0	10,475.1	175.8	206.1	-28.18	-10,174.8	-138.3	2,297.3	2,059.6	237.70	9.664	
22,900.0	12,500.0	20,911.0	10,475.8	177.4	175.7	-28.18	-10,258.7	-138.5	2,296.3	2,077.0	219.37	10.468	
22,902.1	12,500.0	20,912.2	10,475.8	177.4	175.7	-28.18	-10,259.8	-138.5	2,296.3	2,076.9	219.40	10.466	
23,000.0	12,500.0	20,991.8	10,475.7	179.0	177.0	-28.20	-10,339.5	-136.8	2,297.1	2,075.8	221.24	10.383	
23,100.0	12,500.0	21,097.9	10,477.6	180.6	178.7	-28.33	-10,445.4	-131.7	2,297.6	2,073.8	223.76	10.268	
23,200.0	12,500.0	21,244.2	10,481.6	182.2	181.1	-28.52	-10,591.5	-124.3	2,297.5	2,070.5	227.01	10.121	
23,285.4	12,500.0	21,295.9	10,482.4	183.5	181.9	-28.56	-10,643.1	-122.9	2,297.1	2,068.6	228.45	10.055	
23,300.0	12,500.0	21,306.5	10,482.4	183.8	182.1	-28.56	-10,653.8	-122.8	2,297.1	2,068.4	228.71	10.044	
23,400.0	12,500.0	21,378.4	10,481.7	185.4	183.2	-28.55	-10,725.6	-122.6	2,297.9	2,067.6	230.34	9.976	
23,500.0	12,500.0	21,451.9	10,480.5	187.0	184.4	-28.56	-10,799.1	-121.4	2,299.9	2,067.9	232.02	9.912	
23,600.0	12,500.0	21,642.3	10,480.6	188.6	187.5	-28.66	-10,989.4	-115.9	2,301.5	2,065.9	235.64	9.767	
23,700.0	12,500.0	21,721.3	10,481.9	190.2	188.8	-28.68	-11,068.4	-115.5	2,300.3	2,062.8	237.50	9.685	
23,720.8	12,500.0	21,731.4	10,482.0	190.5	189.0	-28.68	-11,078.4	-115.3	2,300.2	2,062.4	237.80	9.673	
23,800.0	12,500.0	21,769.6	10,482.1	191.8	189.6	-28.70	-11,116.6	-114.1	2,300.9	2,062.0	238.94	9.630	
23,900.0	12,500.0	21,844.3	10,481.4	193.4	190.8	-28.76	-11,191.3	-110.9	2,303.5	2,062.7	240.81	9.566	
24,000.0	12,500.0	22,110.2	10,487.1	195.0	195.1	-28.89	-11,456.9	-106.9	2,301.1	2,055.7	245.38	9.377	
24,100.0	12,500.0	22,213.2	10,491.0	196.6	196.8	-28.86	-11,559.8	-110.0	2,296.2	2,048.8	247.37	9.282	
24,200.0	12,500.0	22,290.0	10,491.6	198.2	198.0	-28.76	-11,636.5	-114.4	2,292.4	2,043.5	248.87	9.211	
24,300.0	12,500.0	22,358.0	10,490.2	199.8	199.1	-28.58	-11,704.1	-121.6	2,289.1	2,039.2	249.96	9.158	
24,400.0	12,500.0	22,412.9	10,488.0	201.4	200.0	-28.42	-11,758.6	-127.5	2,287.7	2,036.8	250.89	9.118	
24,401.5	12,500.0	22,413.5	10,488.0	201.4	200.0	-28.42	-11,759.2	-127.6	2,287.7	2,036.8	250.91	9.118	
24,500.0	12,500.0	22,456.2	10,485.6	203.0	200.6	-28.32	-11,801.7	-130.5	2,288.9	2,037.1	251.79	9.091	
24,600.0	12,500.0	22,533.0	10,481.1	204.6	201.9	-28.18	-11,878.4	-133.9	2,291.9	2,038.9	252.99	9.059	
24,700.0	12,500.0	22,634.1	10,476.3	206.2	203.5	-28.10	-11,979.3	-134.8	2,295.4	2,040.7	254.75	9.011	
24,800.0	12,500.0	22,767.5	10,475.1	207.8	205.7	-28.18	-12,112.5	-129.7	2,297.7	2,040.1	257.63	8.919	
24,887.2	12,500.0	22,840.4	10,475.1	209.2	206.9	-28.26	-12,185.4	-125.9	2,299.7	2,040.2	259.48	8.863	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #202H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 166-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.0	1.0	0.0	0.0	-90.35	-1.2	-199.9	200.0				
100.0	100.0	100.2	100.2	0.1	0.1	-90.36	-1.2	-200.2	200.2	199.9	0.28	719.430	
200.0	200.0	199.7	199.7	0.5	0.4	-90.36	-1.3	-200.8	200.8	199.9	0.85	234.881	
300.0	300.0	300.0	300.0	0.8	0.7	-90.34	-1.2	-201.3	201.3	199.8	1.57	128.127	
400.0	400.0	399.9	399.9	1.2	1.1	-90.30	-1.1	-201.9	201.9	199.6	2.29	88.274	
500.0	500.0	499.7	499.7	1.6	1.4	-90.33	-1.2	-202.5	202.5	199.5	3.00	67.450	
600.0	600.0	600.0	600.0	1.9	1.8	-90.39	-1.4	-203.0	203.0	199.3	3.72	54.598	
700.0	700.0	700.4	700.4	2.3	2.2	-90.44	-1.6	-203.4	203.4	199.0	4.44	45.858	
800.0	800.0	799.6	799.6	2.6	2.5	-90.57	-2.0	-203.9	204.0	198.8	5.15	39.624	
900.0	900.0	898.7	898.7	3.0	2.9	-90.82	-2.9	-204.8	204.8	199.0	5.86	34.960	
1,000.0	1,000.0	997.5	997.4	3.4	3.2	-91.02	-3.7	-206.2	206.3	199.7	6.57	31.394	
1,100.0	1,100.0	1,095.0	1,095.0	3.7	3.6	-91.12	-4.1	-208.3	208.4	201.2	7.28	28.640	
1,200.0	1,200.0	1,192.9	1,192.7	4.1	3.9	-91.19	-4.4	-211.8	212.0	204.0	7.99	26.544	
1,300.0	1,300.0	1,291.4	1,291.2	4.4	4.3	-91.05	-3.9	-215.9	216.2	207.5	8.69	24.863	
1,400.0	1,400.0	1,389.7	1,389.4	4.8	4.6	-90.63	-2.4	-220.7	221.0	211.6	9.40	23.515	
1,500.0	1,500.0	1,487.7	1,487.2	5.1	5.0	-89.76	0.9	-226.3	226.7	216.6	10.10	22.440	
1,600.0	1,600.0	1,585.8	1,584.9	5.5	5.3	41.39	6.0	-232.6	232.6	221.8	10.79	21.553	
1,700.0	1,700.0	1,683.6	1,682.3	5.8	5.7	43.27	12.5	-239.5	238.0	226.5	11.46	20.764	
1,800.0	1,799.9	1,783.0	1,781.1	6.2	6.1	45.73	20.5	-246.8	242.9	230.8	12.15	19.994	
1,900.0	1,899.7	1,882.2	1,879.5	6.5	6.4	48.78	30.3	-253.8	247.2	234.3	12.84	19.253	
2,000.0	1,999.4	1,983.6	1,980.1	6.8	6.8	52.23	40.7	-260.4	250.5	237.0	13.55	18.493	
2,100.0	2,098.9	2,083.2	2,079.2	7.2	7.2	55.75	50.2	-266.0	252.8	238.5	14.25	17.740	
2,200.0	2,198.3	2,177.0	2,172.4	7.5	7.5	59.11	58.7	-272.5	256.1	241.2	14.92	17.166	
2,300.0	2,297.4	2,271.9	2,266.5	7.9	7.9	62.47	67.0	-281.0	261.3	245.7	15.60	16.754	
2,313.7	2,311.0	2,285.5	2,280.0	8.0	7.9	62.96	68.1	-282.3	262.1	246.4	15.70	16.700	
2,400.0	2,396.4	2,370.8	2,364.6	8.3	8.3	65.93	75.1	-290.6	267.5	251.2	16.32	16.389	
2,500.0	2,495.4	2,470.0	2,463.0	8.7	8.7	69.14	82.7	-300.3	274.4	257.3	17.05	16.090	
2,600.0	2,594.4	2,569.3	2,561.6	9.0	9.0	72.10	89.8	-310.0	281.9	264.1	17.79	15.841	
2,700.0	2,693.4	2,669.6	2,661.2	9.4	9.4	74.85	96.5	-319.8	289.8	271.2	18.55	15.621	
2,800.0	2,792.4	2,771.2	2,762.2	9.8	9.8	77.45	102.6	-329.1	297.4	278.1	19.32	15.395	
2,900.0	2,891.4	2,869.6	2,860.0	10.2	10.2	79.85	108.1	-337.6	305.0	284.9	20.07	15.199	
3,009.7	3,000.0	2,973.7	2,963.5	10.6	10.6	82.54	115.8	-346.4	315.1	294.2	20.86	15.104	
3,100.0	3,089.4	3,060.6	3,049.7	11.0	11.0	78.64	123.8	-353.6	324.3	302.7	21.52	15.068	
3,200.0	3,188.6	3,157.9	3,146.3	11.4	11.3	73.30	133.6	-361.2	334.0	311.7	22.26	15.005	
3,300.0	3,287.8	3,263.4	3,250.9	11.8	11.7	67.16	144.6	-368.7	342.4	319.4	23.07	14.843	
3,400.0	3,387.1	3,375.2	3,362.2	12.2	12.2	60.42	153.5	-374.1	346.4	322.5	23.91	14.488	
3,500.0	3,486.4	3,470.6	3,457.3	12.5	12.5	53.11	159.9	-377.9	347.7	323.0	24.63	14.114	
3,600.0	3,585.6	3,564.1	3,550.3	12.9	12.9	45.93	167.4	-382.8	349.2	323.9	25.33	13.788	
3,700.0	3,684.8	3,656.9	3,642.6	13.3	13.3	39.32	176.2	-388.5	351.2	325.2	26.01	13.501	
3,762.2	3,746.4	3,714.6	3,699.8	13.5	13.5	35.65	182.6	-392.3	352.6	326.2	26.43	13.342	
3,800.0	3,783.9	3,749.6	3,734.5	13.7	13.6	36.15	186.9	-394.6	353.7	327.0	26.68	13.257	
3,900.0	3,882.9	3,852.3	3,836.1	14.1	14.0	37.64	199.7	-401.3	356.8	329.4	27.46	12.997	
4,000.0	3,982.0	3,957.0	3,940.0	14.4	14.4	39.16	211.6	-407.2	358.8	330.6	28.26	12.700	
4,100.0	4,081.1	4,044.5	4,026.6	14.8	14.8	40.20	221.7	-413.8	362.1	333.2	28.88	12.539	
4,200.0	4,180.1	4,132.3	4,113.1	15.2	15.2	40.80	233.1	-424.1	368.7	339.2	29.47	12.511	
4,300.0	4,279.2	4,230.1	4,208.9	15.6	15.6	41.16	246.7	-438.2	377.4	347.1	30.21	12.493	
4,400.0	4,378.2	4,329.8	4,306.6	16.0	16.0	41.52	260.7	-452.4	386.1	355.1	30.97	12.464	
4,500.0	4,477.3	4,431.3	4,406.1	16.4	16.5	41.85	274.6	-466.9	394.6	362.8	31.77	12.418	
4,600.0	4,576.4	4,534.4	4,507.2	16.8	16.9	42.04	287.9	-482.2	402.5	369.9	32.59	12.350	
4,700.0	4,675.4	4,658.5	4,629.5	17.1	17.5	42.21	299.8	-499.1	406.9	373.3	33.64	12.098	
4,800.0	4,774.5	4,778.7	4,748.8	17.5	17.9	42.39	305.2	-512.6	405.6	371.1	34.54	11.744	
4,900.0	4,873.6	4,895.1	4,864.7	17.9	18.4	42.59	305.9	-523.3	400.0	364.7	35.35	11.317	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #202H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 166-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,972.6	5,004.1	4,973.4	18.3	18.8	42.86	303.6	-531.3	391.1	355.0	36.10	10.836	
5,100.0	5,071.7	5,112.3	5,081.4	18.7	19.1	43.30	299.5	-537.3	380.0	343.2	36.82	10.322	
5,200.0	5,170.7	5,221.3	5,190.1	19.1	19.4	44.16	293.9	-540.0	366.5	329.0	37.50	9.773	
5,300.0	5,269.8	5,321.4	5,290.0	19.5	19.7	45.49	287.9	-539.0	350.9	312.6	38.22	9.179	
5,400.0	5,368.9	5,410.9	5,379.5	19.9	20.0	46.97	284.5	-537.6	337.2	298.2	39.02	8.641	
5,500.0	5,467.9	5,503.3	5,471.9	20.3	20.3	48.73	283.3	-536.4	326.3	286.5	39.80	8.200	
5,600.0	5,567.0	5,601.7	5,570.3	20.7	20.6	50.72	282.8	-535.3	316.6	276.1	40.55	7.808	
5,700.0	5,666.0	5,700.2	5,668.8	21.1	20.9	52.78	282.4	-534.5	307.5	266.2	41.31	7.443	
5,800.0	5,765.1	5,798.6	5,767.2	21.5	21.2	54.94	282.1	-533.9	298.9	256.8	42.08	7.104	
5,900.0	5,864.2	5,897.4	5,866.0	21.9	21.5	57.21	281.9	-533.4	290.9	248.1	42.84	6.790	
6,000.0	5,963.2	5,996.6	5,965.1	22.3	21.8	59.57	281.7	-533.1	283.4	239.8	43.61	6.499	
6,100.0	6,062.3	6,095.7	6,064.2	22.7	22.1	62.02	281.3	-532.9	276.4	232.0	44.39	6.227	
6,200.0	6,161.4	6,194.7	6,163.3	23.1	22.5	64.57	281.0	-532.9	269.9	224.7	45.16	5.975	
6,300.0	6,260.4	6,294.4	6,263.0	23.5	22.8	67.24	280.6	-532.9	263.8	217.9	45.94	5.743	
6,400.0	6,359.5	6,394.4	6,362.9	23.9	23.1	70.04	279.8	-532.9	258.0	211.3	46.71	5.524	
6,500.0	6,458.5	6,493.8	6,462.4	24.3	23.4	72.93	278.8	-533.0	252.6	205.1	47.48	5.320	
6,600.0	6,557.6	6,593.1	6,561.6	24.8	23.8	75.92	277.6	-533.1	247.7	199.5	48.24	5.135	
6,700.0	6,656.7	6,692.1	6,660.6	25.2	24.1	79.00	276.5	-533.4	243.5	194.5	49.00	4.969	
6,800.0	6,755.7	6,791.1	6,759.6	25.6	24.4	82.14	275.3	-533.7	240.0	190.3	49.75	4.824	
6,900.0	6,854.8	6,890.9	6,859.4	26.0	24.7	85.39	274.0	-534.1	237.1	186.7	50.49	4.697	
7,000.0	6,953.9	6,990.6	6,959.1	26.4	25.1	88.80	272.3	-534.3	234.8	183.5	51.21	4.584	
7,100.0	7,052.9	7,089.0	7,057.5	26.8	25.4	92.24	270.6	-534.3	233.2	181.3	51.92	4.492	
7,196.1	7,148.1	7,183.7	7,152.2	27.2	25.7	95.54	269.1	-534.5	232.7	180.1	52.58	4.426	
7,200.0	7,152.0	7,187.6	7,156.1	27.2	25.7	95.68	269.1	-534.5	232.7	180.1	52.61	4.424	
7,300.0	7,251.0	7,287.0	7,255.5	27.6	26.0	99.16	267.5	-534.6	233.1	179.8	53.28	4.375 ES	
7,400.0	7,350.1	7,386.0	7,354.4	28.0	26.4	102.66	265.7	-534.6	234.2	180.2	53.94	4.341	
7,500.0	7,449.2	7,483.4	7,451.8	28.4	26.7	106.13	264.1	-534.1	236.5	182.0	54.57	4.334 SF	
7,600.0	7,548.2	7,580.4	7,548.8	28.8	27.0	109.55	262.8	-533.0	240.4	185.3	55.18	4.358	
7,700.0	7,647.3	7,676.3	7,644.7	29.3	27.3	112.88	262.0	-531.1	246.2	190.5	55.75	4.417	
7,800.0	7,746.3	7,773.1	7,741.4	29.7	27.6	116.14	261.8	-528.2	254.0	197.7	56.32	4.510	
7,900.0	7,845.4	7,872.8	7,841.1	30.1	27.9	119.27	261.7	-525.3	262.6	205.7	56.93	4.613	
8,000.0	7,944.5	7,970.8	7,939.1	30.5	28.3	122.09	261.5	-522.8	271.6	214.1	57.51	4.722	
8,100.0	8,043.5	8,065.8	8,034.0	30.9	28.6	124.43	262.8	-520.1	282.2	224.1	58.07	4.860	
8,200.0	8,142.6	8,162.2	8,130.4	31.3	28.9	126.37	265.9	-517.2	294.4	235.8	58.66	5.020	
8,300.0	8,241.7	8,261.1	8,229.1	31.7	29.2	127.99	270.1	-514.6	307.2	247.9	59.32	5.179	
8,400.0	8,340.7	8,361.6	8,329.5	32.1	29.6	129.36	275.1	-512.4	320.0	260.0	60.02	5.332	
8,500.0	8,439.8	8,463.9	8,431.6	32.5	29.9	130.70	279.4	-510.9	332.2	271.4	60.75	5.468	
8,600.0	8,538.8	8,567.2	8,534.8	33.0	30.3	132.06	282.7	-510.0	343.4	281.9	61.49	5.585	
8,700.0	8,637.9	8,671.2	8,638.9	33.4	30.7	133.40	285.2	-510.3	353.4	291.2	62.23	5.680	
8,800.0	8,737.0	8,772.1	8,739.8	33.8	31.0	134.68	286.8	-511.4	362.6	299.7	62.92	5.764	
8,900.0	8,836.0	8,872.1	8,839.7	34.2	31.4	135.98	287.8	-512.5	371.8	308.2	63.60	5.846	
9,000.0	8,935.1	8,972.7	8,940.3	34.6	31.7	137.29	288.3	-513.6	380.9	316.6	64.29	5.924	
9,100.0	9,034.2	9,073.4	9,041.0	35.0	32.1	138.58	288.5	-515.1	389.7	324.8	64.97	5.998	
9,200.0	9,133.2	9,172.4	9,140.0	35.4	32.4	139.82	288.3	-516.6	398.7	333.0	65.64	6.073	
9,300.0	9,232.3	9,271.3	9,238.9	35.8	32.7	141.05	287.9	-517.9	407.8	341.5	66.31	6.150	
9,400.0	9,331.3	9,369.7	9,337.3	36.3	33.1	142.22	287.5	-519.1	417.3	350.3	66.97	6.231	
9,500.0	9,430.4	9,468.5	9,436.0	36.7	33.4	143.33	287.3	-520.2	427.1	359.5	67.64	6.314	
9,600.0	9,529.5	9,568.4	9,536.0	37.1	33.8	144.45	286.6	-521.2	437.0	368.7	68.32	6.396	
9,700.0	9,628.5	9,668.3	9,635.8	37.5	34.1	145.59	285.4	-522.3	446.9	377.9	69.00	6.477	
9,800.0	9,727.6	9,768.1	9,735.6	37.9	34.5	146.73	283.8	-523.5	456.8	387.1	69.68	6.556	
9,900.0	9,826.6	9,867.9	9,835.4	38.3	34.8	147.84	282.0	-524.8	466.7	396.4	70.36	6.634	
10,000.0	9,925.7	9,967.6	9,935.1	38.7	35.1	148.92	280.0	-526.2	476.7	405.7	71.03	6.711	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #202H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 166-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.0	10,024.8	10,066.8	10,034.3	39.2	35.5	149.98	277.9	-527.7	486.7	415.0	71.71	6.788	
10,200.0	10,123.8	10,165.5	10,132.9	39.6	35.8	151.05	275.2	-529.0	497.0	424.6	72.38	6.867	
10,300.0	10,222.9	10,266.2	10,233.5	40.0	36.2	152.14	272.0	-530.4	507.3	434.3	73.06	6.944	
10,400.0	10,322.0	10,368.3	10,335.6	40.4	36.5	153.17	269.1	-532.4	517.3	443.6	73.77	7.013	
10,500.0	10,421.0	10,467.8	10,435.0	40.8	36.8	154.08	266.7	-534.7	527.1	452.6	74.45	7.080	
10,600.0	10,520.1	10,566.2	10,533.4	41.2	37.2	154.93	264.5	-537.0	537.1	461.9	75.13	7.148	
10,700.0	10,619.1	10,663.5	10,630.6	41.6	37.5	155.71	262.6	-539.0	547.4	471.6	75.81	7.220	
10,800.0	10,718.2	10,806.7	10,772.8	42.1	38.0	157.92	249.0	-546.0	555.2	478.6	76.65	7.244	
10,900.0	10,817.3	10,944.9	10,903.3	42.5	38.4	162.75	209.1	-565.5	554.2	477.1	77.13	7.186	
10,970.6	10,887.2	11,010.5	10,961.6	42.8	38.6	165.97	181.3	-577.4	553.2	475.5	77.64	7.125	
11,000.0	10,916.3	11,034.5	10,982.2	42.9	38.7	167.27	169.9	-581.8	553.4	475.5	77.86	7.107	
11,100.0	11,015.4	11,098.9	11,035.2	43.3	38.8	171.15	135.3	-593.4	558.8	480.4	78.43	7.125	
11,200.0	11,114.5	11,157.0	11,077.4	43.7	38.9	175.30	96.6	-602.7	574.7	496.3	78.40	7.331	
11,229.9	11,144.0	11,157.0	11,077.4	43.8	38.9	175.30	96.6	-602.7	581.5	503.5	77.97	7.458	
11,300.0	11,213.6	11,187.4	11,097.3	44.1	38.9	177.63	74.1	-607.1	601.4	524.2	77.17	7.793	
11,400.0	11,312.9	11,225.6	11,121.0	44.5	39.0	-179.44	44.5	-612.2	637.4	562.0	75.37	8.457	
11,500.0	11,412.4	11,252.0	11,136.3	44.9	39.0	-177.44	23.3	-615.5	681.7	609.0	72.77	9.368	
11,600.0	11,512.1	11,281.7	11,152.5	45.3	39.1	-175.25	-1.4	-618.7	733.6	663.5	70.09	10.466	
11,700.0	11,611.9	11,303.0	11,163.4	45.7	39.1	-173.76	-19.6	-620.5	791.9	724.7	67.15	11.794	
11,800.0	11,711.8	11,347.0	11,183.9	46.0	39.2	-170.75	-58.5	-623.0	856.5	791.3	65.19	13.139	
11,900.0	11,811.7	11,347.0	11,183.9	46.4	39.2	-170.89	-58.5	-623.0	923.7	861.8	61.86	14.931	
12,000.0	11,911.7	11,347.0	11,183.9	46.7	39.2	-171.05	-58.5	-623.0	995.2	936.4	58.84	16.914	
12,015.3	11,927.0	11,347.0	11,183.9	46.7	39.2	121.19	-58.5	-623.0	1,006.5	948.1	58.40	17.233	
12,050.0	11,961.7	11,347.0	11,183.9	46.8	39.2	-60.55	-58.5	-623.0	1,032.1	974.6	57.43	17.972	
12,100.0	12,011.4	11,374.4	11,195.3	47.0	39.3	-54.59	-83.4	-623.8	1,067.8	1,010.8	56.94	18.754	
12,150.0	12,060.5	11,385.3	11,199.6	47.1	39.3	-50.18	-93.4	-624.0	1,102.9	1,047.0	55.90	19.730	
12,200.0	12,108.5	11,397.0	11,204.0	47.3	39.4	-46.28	-104.2	-624.1	1,137.0	1,082.1	54.92	20.704	
12,250.0	12,155.2	11,409.6	11,208.7	47.4	39.4	-42.88	-115.9	-624.1	1,169.6	1,115.7	53.98	21.670	
12,300.0	12,200.1	11,441.0	11,219.4	47.5	39.5	-39.57	-145.4	-623.5	1,201.1	1,147.5	53.62	22.402	
12,350.0	12,243.0	11,441.0	11,219.4	47.6	39.5	-37.36	-145.4	-623.5	1,230.1	1,177.7	52.36	23.491	
12,400.0	12,283.5	11,441.0	11,219.4	47.7	39.5	-35.41	-145.4	-623.5	1,257.6	1,206.4	51.20	24.563	
12,450.0	12,321.2	11,441.0	11,219.4	47.8	39.5	-33.69	-145.4	-623.5	1,283.5	1,233.3	50.13	25.603	
12,500.0	12,355.9	11,483.0	11,231.5	47.9	39.6	-31.92	-185.6	-622.5	1,305.8	1,255.7	50.09	26.068	
12,550.0	12,387.4	11,499.1	11,235.4	47.9	39.7	-30.63	-201.2	-622.3	1,326.6	1,277.1	49.49	26.802	
12,600.0	12,415.4	11,536.0	11,242.7	48.0	39.8	-29.48	-237.4	-622.1	1,345.4	1,296.0	49.35	27.264	
12,650.0	12,439.6	11,536.0	11,242.7	48.1	39.8	-28.69	-237.4	-622.1	1,360.8	1,312.2	48.58	28.014	
12,700.0	12,460.0	11,536.0	11,242.7	48.1	39.8	-28.03	-237.4	-622.1	1,374.2	1,326.2	47.96	28.652	
12,750.0	12,476.3	11,572.7	11,248.0	48.2	39.9	-27.50	-273.7	-622.2	1,384.5	1,336.5	47.95	28.874	
12,800.0	12,488.4	11,593.7	11,250.3	48.3	40.0	-27.15	-294.6	-622.4	1,392.1	1,344.3	47.79	29.127	
12,850.0	12,496.2	11,630.0	11,253.1	48.3	40.1	-26.98	-330.8	-623.0	1,397.2	1,349.3	47.86	29.192	
12,900.0	12,499.8	11,630.0	11,253.1	48.4	40.1	-26.90	-330.8	-623.0	1,399.0	1,351.3	47.71	29.323	
12,915.3	12,500.0	11,630.0	11,253.1	48.5	40.1	-26.89	-330.8	-623.0	1,399.1	1,351.4	47.70	29.332	
12,947.2	12,500.0	11,658.6	11,254.3	48.5	40.2	-26.98	-359.3	-623.5	1,398.9	1,351.0	47.86	29.228	
13,000.0	12,500.0	11,683.3	11,254.8	48.6	40.3	-27.04	-384.1	-624.0	1,399.2	1,351.2	47.99	29.155	
13,100.0	12,500.0	11,737.6	11,253.8	48.9	40.5	-27.10	-438.3	-625.2	1,401.5	1,353.2	48.28	29.026	
13,182.7	12,500.0	11,842.3	11,251.9	49.1	40.9	-27.06	-542.9	-626.9	1,402.6	1,353.9	48.64	28.835	
13,200.0	12,500.0	11,862.3	11,251.8	49.2	41.0	-27.04	-563.0	-627.2	1,402.5	1,353.8	48.72	28.787	
13,300.0	12,500.0	11,974.4	11,251.5	49.5	41.6	-26.95	-675.0	-629.1	1,401.8	1,352.6	49.23	28.475	
13,400.0	12,500.0	12,098.3	11,253.0	50.0	42.3	-26.91	-798.9	-630.5	1,400.1	1,350.1	49.97	28.021	
13,500.0	12,500.0	12,179.2	11,254.3	50.4	42.8	-26.89	-879.8	-631.5	1,397.8	1,347.3	50.50	27.680	
13,600.0	12,500.0	12,275.5	11,254.8	50.9	43.4	-26.84	-976.1	-632.5	1,396.7	1,345.5	51.19	27.285	
13,700.0	12,500.0	12,394.3	11,256.2	51.5	44.2	-26.80	-1,094.9	-633.8	1,395.0	1,342.9	52.14	26.754	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #202H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 166-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.0	12,500.0	12,498.7	11,258.8	52.1	45.0	-26.82	-1,199.3	-634.2	1,392.4	1,339.3	53.10	26.220	
13,900.0	12,500.0	12,579.0	11,262.0	52.8	45.7	-26.89	-1,279.5	-633.4	1,389.4	1,335.4	53.93	25.760	
13,972.0	12,500.0	12,631.4	11,263.3	53.3	46.1	-26.93	-1,331.8	-632.7	1,388.3	1,333.7	54.52	25.463	
14,000.0	12,500.0	12,645.5	11,263.3	53.5	46.3	-26.94	-1,346.0	-632.5	1,388.4	1,333.7	54.69	25.387	
14,100.0	12,500.0	12,733.5	11,261.5	54.2	47.0	-26.94	-1,434.0	-631.1	1,390.6	1,334.9	55.65	24.988	
14,200.0	12,500.0	12,867.1	11,261.6	55.0	48.2	-27.02	-1,567.5	-628.6	1,391.2	1,334.1	57.12	24.356	
14,300.0	12,500.0	12,964.4	11,261.0	55.9	49.2	-26.93	-1,664.7	-630.2	1,390.8	1,332.6	58.19	23.902	
14,400.0	12,500.0	13,064.3	11,260.1	56.7	50.2	-26.82	-1,764.7	-632.3	1,390.5	1,331.2	59.31	23.445	
14,500.0	12,500.0	13,161.6	11,259.6	57.6	51.2	-26.75	-1,861.9	-633.6	1,390.1	1,329.6	60.47	22.987	
14,510.3	12,500.0	13,169.8	11,259.6	57.7	51.3	-26.75	-1,870.2	-633.6	1,390.0	1,329.5	60.58	22.945	
14,600.0	12,500.0	13,229.0	11,259.6	58.6	51.9	-26.77	-1,929.3	-632.7	1,390.7	1,329.3	61.44	22.636	
14,700.0	12,500.0	13,290.0	11,258.3	59.5	52.5	-26.80	-1,990.3	-631.0	1,393.9	1,331.5	62.41	22.337	
14,800.0	12,500.0	13,363.0	11,253.8	60.5	53.3	-26.78	-2,063.1	-629.0	1,400.3	1,336.8	63.49	22.055	
14,900.0	12,500.0	13,464.5	11,247.5	61.5	54.5	-26.76	-2,164.4	-625.7	1,407.2	1,342.3	64.86	21.694	
15,000.0	12,500.0	13,658.8	11,241.5	62.6	56.7	-26.69	-2,358.5	-623.8	1,409.7	1,342.5	67.23	20.968	
15,100.0	12,500.0	13,745.2	11,240.7	63.7	57.7	-26.65	-2,444.9	-624.3	1,410.2	1,341.7	68.49	20.589	
15,200.0	12,500.0	13,827.1	11,238.6	64.8	58.7	-26.58	-2,526.7	-624.8	1,411.9	1,342.2	69.69	20.258	
15,300.0	12,500.0	13,975.0	11,236.2	65.9	60.6	-26.53	-2,674.6	-624.3	1,413.7	1,342.0	71.77	19.699	
15,400.0	12,500.0	14,089.4	11,238.5	67.0	62.0	-26.62	-2,788.9	-622.5	1,412.4	1,338.8	73.61	19.189	
15,500.0	12,500.0	14,193.5	11,242.7	68.2	63.3	-26.79	-2,892.9	-619.5	1,409.9	1,334.4	75.42	18.692	
15,600.0	12,500.0	14,273.4	11,244.7	69.4	64.4	-26.85	-2,972.7	-618.4	1,408.1	1,331.3	76.82	18.330	
15,648.0	12,500.0	14,308.4	11,244.7	70.0	64.8	-26.84	-3,007.8	-618.6	1,407.9	1,330.5	77.41	18.188	
15,700.0	12,500.0	14,347.6	11,244.1	70.6	65.3	-26.80	-3,047.0	-619.3	1,408.2	1,330.1	78.03	18.047	
15,800.0	12,500.0	14,433.6	11,241.9	71.8	66.5	-26.70	-3,132.9	-620.4	1,409.6	1,330.2	79.37	17.760	
15,900.0	12,500.0	14,527.0	11,239.7	73.0	67.7	-26.66	-3,226.3	-620.0	1,411.7	1,330.8	80.88	17.454	
16,000.0	12,500.0	14,618.4	11,237.3	74.3	68.9	-26.64	-3,317.7	-619.0	1,414.4	1,332.0	82.41	17.164	
16,100.0	12,500.0	14,751.7	11,237.4	75.6	70.8	-26.70	-3,451.0	-616.7	1,414.5	1,329.8	84.63	16.714	
16,200.0	12,500.0	14,812.0	11,235.8	76.9	71.6	-26.68	-3,511.2	-616.2	1,416.8	1,331.0	85.74	16.523	
16,300.0	12,500.0	14,944.2	11,233.2	78.2	73.4	-26.71	-3,643.3	-613.7	1,419.2	1,331.3	87.94	16.138	
16,400.0	12,500.0	15,046.3	11,233.9	79.5	74.8	-26.84	-3,745.4	-609.8	1,420.2	1,330.3	89.88	15.801	
16,500.0	12,500.0	15,150.1	11,232.4	80.8	76.3	-26.80	-3,849.1	-609.8	1,421.2	1,329.6	91.62	15.512	
16,600.0	12,500.0	15,242.5	11,231.3	82.1	77.6	-26.75	-3,941.5	-610.2	1,422.0	1,328.8	93.21	15.256	
16,700.0	12,500.0	15,326.0	11,229.8	83.5	78.8	-26.74	-4,025.0	-609.4	1,423.9	1,329.2	94.71	15.034	
16,800.0	12,500.0	15,422.7	11,226.9	84.8	80.2	-26.70	-4,121.6	-608.6	1,426.7	1,330.3	96.38	14.802	
16,900.0	12,500.0	15,544.3	11,224.5	86.2	81.9	-26.68	-4,243.2	-607.4	1,428.7	1,330.2	98.47	14.509	
17,000.0	12,500.0	15,643.6	11,223.8	87.6	83.4	-26.69	-4,342.5	-606.3	1,429.7	1,329.4	100.27	14.258	
17,100.0	12,500.0	15,708.5	11,222.0	89.0	84.3	-26.65	-4,407.4	-606.4	1,431.9	1,330.4	101.47	14.111	
17,200.0	12,500.0	15,775.8	11,217.4	90.4	85.3	-26.52	-4,474.5	-607.5	1,437.0	1,334.4	102.58	14.009	
17,300.0	12,500.0	15,873.0	11,209.4	91.8	86.7	-26.26	-4,571.3	-610.3	1,442.9	1,338.9	103.97	13.878	
17,400.0	12,500.0	15,957.5	11,202.4	93.2	88.0	-26.08	-4,655.6	-611.4	1,449.6	1,344.3	105.27	13.770	
17,500.0	12,500.0	16,058.5	11,194.5	94.6	89.4	-25.96	-4,756.2	-610.5	1,456.8	1,349.9	106.92	13.625	
17,600.0	12,500.0	16,203.1	11,185.3	96.0	91.6	-25.85	-4,900.5	-608.6	1,463.1	1,353.8	109.28	13.388	
17,700.0	12,500.0	16,384.1	11,184.4	97.5	94.3	-25.86	-5,081.5	-607.1	1,463.2	1,350.9	112.36	13.023	
17,800.0	12,500.0	16,509.3	11,186.8	98.9	96.2	-25.85	-5,206.6	-608.0	1,461.0	1,346.5	114.54	12.756	
17,900.0	12,500.0	16,625.7	11,190.7	100.4	97.9	-25.82	-5,322.9	-610.3	1,456.9	1,340.3	116.56	12.499	
18,000.0	12,500.0	16,706.2	11,192.7	101.8	99.1	-25.76	-5,403.4	-612.5	1,453.3	1,335.2	118.05	12.310	
18,100.0	12,500.0	16,811.3	11,195.0	103.3	100.7	-25.69	-5,508.4	-615.2	1,450.1	1,330.2	119.85	12.099	
18,200.0	12,500.0	16,903.1	11,197.1	104.7	102.1	-25.63	-5,600.2	-617.4	1,446.8	1,325.3	121.50	11.908	
18,300.0	12,500.0	16,972.2	11,197.5	106.2	103.2	-25.57	-5,669.3	-618.9	1,445.1	1,322.2	122.82	11.766	
18,380.4	12,500.0	17,043.1	11,197.1	107.4	104.2	-25.52	-5,740.2	-619.8	1,444.9	1,320.8	124.08	11.644	
18,400.0	12,500.0	17,061.1	11,197.0	107.7	104.5	-25.52	-5,758.2	-619.9	1,444.9	1,320.5	124.41	11.614	
18,500.0	12,500.0	17,174.3	11,197.3	109.2	106.2	-25.52	-5,871.3	-619.4	1,444.7	1,318.2	126.49	11.421	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #202H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 166-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,600.0	12,500.0	17,269.0	11,198.2	110.7	107.7	-25.56	-5,966.0	-618.3	1,444.1	1,315.7	128.35	11.251	
18,678.9	12,500.0	17,341.6	11,198.8	111.8	108.8	-25.60	-6,038.6	-617.3	1,443.9	1,314.1	129.80	11.124	
18,700.0	12,500.0	17,361.1	11,198.9	112.2	109.1	-25.61	-6,058.2	-617.0	1,443.9	1,313.7	130.19	11.091	
18,800.0	12,500.0	17,442.9	11,198.5	113.7	110.4	-25.62	-6,139.9	-615.9	1,444.7	1,312.9	131.81	10.960	
18,900.0	12,500.0	17,548.6	11,198.0	115.2	112.0	-25.69	-6,245.5	-613.3	1,446.0	1,312.0	133.92	10.797	
19,000.0	12,500.0	17,621.7	11,197.5	116.7	113.1	-25.76	-6,318.6	-610.8	1,447.9	1,312.4	135.50	10.685	
19,100.0	12,500.0	17,778.0	11,199.0	118.2	115.6	-25.96	-6,474.7	-605.4	1,448.1	1,309.4	138.66	10.443	
19,200.0	12,500.0	17,873.3	11,201.4	119.7	117.0	-26.13	-6,569.9	-601.2	1,447.6	1,306.7	140.84	10.278	
19,300.0	12,500.0	17,990.7	11,206.3	121.2	118.9	-26.44	-6,687.0	-594.4	1,446.2	1,302.5	143.64	10.068	
19,400.0	12,500.0	18,080.1	11,210.6	122.7	120.3	-26.70	-6,776.1	-588.8	1,444.5	1,298.5	145.93	9.898	
19,479.7	12,500.0	18,143.4	11,212.2	123.9	121.3	-26.81	-6,839.4	-586.3	1,444.0	1,296.5	147.44	9.794	
19,500.0	12,500.0	18,158.9	11,212.4	124.2	121.5	-26.83	-6,854.9	-585.9	1,444.0	1,296.2	147.79	9.770	
19,600.0	12,500.0	18,246.1	11,212.1	125.8	122.9	-26.87	-6,942.0	-584.0	1,445.0	1,295.4	149.62	9.658	
19,700.0	12,500.0	18,344.9	11,212.1	127.3	124.4	-26.96	-7,040.8	-581.2	1,446.1	1,294.4	151.72	9.532	
19,800.0	12,500.0	18,440.5	11,211.9	128.8	125.9	-27.06	-7,136.3	-577.7	1,447.7	1,293.9	153.82	9.412	
19,900.0	12,500.0	18,535.8	11,212.3	130.4	127.4	-27.22	-7,231.6	-573.2	1,449.3	1,293.3	156.03	9.289	
20,000.0	12,500.0	18,633.0	11,209.9	131.9	128.9	-27.17	-7,328.7	-572.7	1,451.6	1,293.7	157.85	9.196	
20,100.0	12,500.0	18,741.1	11,207.1	133.4	130.6	-27.08	-7,436.7	-573.4	1,453.4	1,293.6	159.74	9.098	
20,200.0	12,500.0	18,854.0	11,205.3	135.0	132.4	-27.03	-7,549.6	-573.6	1,454.6	1,292.8	161.80	8.990	
20,300.0	12,500.0	18,976.3	11,205.8	136.5	134.3	-27.07	-7,671.9	-572.1	1,454.5	1,290.3	164.21	8.858	
20,400.0	12,500.0	19,077.7	11,207.9	138.1	135.9	-27.15	-7,773.3	-570.3	1,453.3	1,286.9	166.41	8.734	
20,438.4	12,500.0	19,102.4	11,208.1	138.7	136.3	-27.16	-7,798.0	-570.1	1,453.2	1,286.2	166.96	8.703	
20,500.0	12,500.0	19,142.1	11,207.6	139.6	137.0	-27.14	-7,837.7	-570.3	1,453.6	1,285.9	167.76	8.665	
20,600.0	12,500.0	19,217.2	11,204.8	141.2	138.1	-27.05	-7,912.7	-571.2	1,456.1	1,287.0	169.06	8.613	
20,700.0	12,500.0	19,301.4	11,200.9	142.7	139.5	-26.96	-7,996.8	-571.4	1,459.9	1,289.4	170.51	8.562	
20,800.0	12,500.0	19,478.1	11,193.6	144.3	142.3	-26.65	-8,173.3	-575.8	1,462.8	1,289.7	173.06	8.452	
20,900.0	12,500.0	19,598.8	11,194.3	145.9	144.2	-26.51	-8,294.0	-579.6	1,460.5	1,285.6	174.99	8.347	
21,000.0	12,500.0	19,691.6	11,193.7	147.4	145.6	-26.30	-8,386.6	-584.9	1,458.4	1,282.1	176.33	8.271	
21,100.0	12,500.0	19,775.6	11,193.2	149.0	147.0	-26.16	-8,470.5	-588.3	1,457.0	1,279.3	177.70	8.200	
21,200.0	12,500.0	19,934.7	11,193.1	150.5	149.5	-25.87	-8,629.3	-595.7	1,455.2	1,275.5	179.72	8.097	
21,300.0	12,500.0	20,025.1	11,196.5	152.1	150.9	-25.84	-8,719.7	-597.6	1,450.7	1,269.2	181.50	7.993	
21,400.0	12,500.0	20,116.1	11,199.8	153.7	152.4	-25.86	-8,810.6	-598.3	1,446.9	1,263.5	183.38	7.890	
21,500.0	12,500.0	20,196.0	11,202.5	155.3	153.6	-25.90	-8,890.5	-598.3	1,443.8	1,258.6	185.16	7.798	
21,577.7	12,500.0	20,242.9	11,203.3	156.5	154.4	-25.91	-8,937.4	-598.0	1,442.8	1,256.5	186.26	7.746	
21,600.0	12,500.0	20,254.8	11,203.3	156.8	154.6	-25.91	-8,949.3	-597.9	1,442.9	1,256.3	186.53	7.735	
21,700.0	12,500.0	20,317.3	11,201.9	158.4	155.6	-25.91	-9,011.7	-597.0	1,445.1	1,257.3	187.80	7.695	
21,800.0	12,500.0	20,411.6	11,198.4	160.0	157.1	-25.90	-9,105.9	-595.3	1,449.0	1,259.3	189.61	7.642	
21,900.0	12,500.0	20,589.5	11,196.0	161.6	159.9	-25.83	-9,283.8	-595.2	1,450.0	1,257.3	192.71	7.524	
22,000.0	12,500.0	20,679.0	11,197.1	163.1	161.3	-25.83	-9,373.3	-595.4	1,448.7	1,254.2	194.51	7.448	
22,080.4	12,500.0	20,745.8	11,197.2	164.4	162.4	-25.81	-9,440.1	-595.6	1,448.3	1,252.5	195.84	7.396	
22,100.0	12,500.0	20,762.1	11,197.1	164.7	162.7	-25.81	-9,456.4	-595.6	1,448.4	1,252.2	196.16	7.384	
22,200.0	12,500.0	20,841.9	11,195.9	166.3	164.0	-25.76	-9,536.2	-596.1	1,449.3	1,251.6	197.64	7.333	
22,300.0	12,500.0	20,970.3	11,195.3	167.9	166.0	-25.81	-9,664.5	-593.9	1,450.3	1,250.1	200.20	7.244	
22,303.8	12,500.0	20,975.7	11,195.5	167.9	166.1	-25.82	-9,669.9	-593.6	1,450.3	1,250.0	200.34	7.239	
22,400.0	12,500.0	21,039.2	11,195.6	169.5	167.1	-25.90	-9,733.4	-591.3	1,451.3	1,249.4	201.89	7.189	
22,500.0	12,500.0	21,116.5	11,194.2	171.0	168.4	-25.93	-9,810.6	-589.2	1,453.9	1,250.4	203.54	7.143	
22,600.0	12,500.0	21,272.4	11,193.0	172.6	170.9	-26.03	-9,966.5	-585.1	1,455.7	1,248.9	206.77	7.040	
22,700.0	12,500.0	21,375.0	11,195.2	174.2	172.5	-26.18	-10,068.9	-581.5	1,455.1	1,245.9	209.22	6.955	
22,800.0	12,500.0	21,475.9	11,196.1	175.8	174.1	-26.21	-10,169.8	-580.7	1,454.5	1,243.2	211.30	6.883	
22,900.0	12,500.0	21,577.1	11,196.5	177.4	175.8	-26.19	-10,271.0	-581.2	1,453.7	1,240.5	213.22	6.818	
23,000.0	12,500.0	21,670.5	11,197.3	179.0	177.3	-26.21	-10,364.4	-580.6	1,453.0	1,237.9	215.16	6.753	
23,038.1	12,500.0	21,703.8	11,197.6	179.6	177.8	-26.22	-10,397.7	-580.1	1,453.0	1,237.1	215.89	6.730	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #202H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 166-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
23,100.0	12,500.0	21,760.9	11,197.9	180.6	178.7	-26.26	-10,454.8	-578.9	1,453.1	1,235.9	217.15	6.692	
23,200.0	12,500.0	21,847.7	11,198.3	182.2	180.1	-26.35	-10,541.5	-576.4	1,453.8	1,234.6	219.17	6.633	
23,300.0	12,500.0	21,928.5	11,197.8	183.8	181.4	-26.43	-10,622.3	-573.5	1,455.7	1,234.7	221.04	6.586	
23,400.0	12,500.0	22,013.7	11,197.1	185.4	182.8	-26.57	-10,707.4	-568.7	1,458.8	1,235.6	223.19	6.536	
23,500.0	12,500.0	22,102.3	11,196.0	187.0	184.2	-26.76	-10,795.7	-562.3	1,462.9	1,237.4	225.54	6.486	
23,600.0	12,500.0	22,248.5	11,193.7	188.6	186.6	-26.77	-10,941.8	-560.1	1,464.4	1,235.9	228.49	6.409	
23,700.0	12,500.0	22,400.8	11,192.5	190.2	189.1	-26.64	-11,094.1	-562.7	1,464.4	1,233.5	230.87	6.343	
23,800.0	12,500.0	22,527.4	11,193.9	191.8	191.1	-26.49	-11,220.6	-567.2	1,461.6	1,229.0	232.69	6.282	
23,900.0	12,500.0	22,645.5	11,199.1	193.4	193.0	-26.46	-11,338.6	-570.1	1,456.4	1,221.6	234.77	6.203	
24,000.0	12,500.0	22,743.4	11,203.7	195.0	194.6	-26.45	-11,436.3	-572.3	1,451.0	1,214.3	236.70	6.130	
24,100.0	12,500.0	22,809.1	11,205.9	196.6	195.6	-26.42	-11,502.0	-573.9	1,446.7	1,208.5	238.23	6.073	
24,200.0	12,500.0	22,887.6	11,206.1	198.2	196.9	-26.34	-11,580.4	-576.0	1,445.0	1,205.3	239.65	6.029	
24,300.0	12,500.0	22,995.0	11,207.5	199.8	198.6	-26.30	-11,687.8	-577.2	1,443.1	1,201.5	241.64	5.972	
24,400.0	12,500.0	23,082.3	11,209.5	201.4	200.0	-26.36	-11,775.1	-576.2	1,441.4	1,197.8	243.64	5.916	
24,471.7	12,500.0	23,138.6	11,210.5	202.5	201.0	-26.42	-11,831.4	-574.6	1,441.0	1,196.0	245.06	5.880	
24,500.0	12,500.0	23,161.2	11,210.8	203.0	201.3	-26.46	-11,853.9	-573.8	1,441.1	1,195.5	245.64	5.867	
24,600.0	12,500.0	23,241.5	11,211.2	204.6	202.6	-26.56	-11,934.2	-570.7	1,442.2	1,194.6	247.65	5.824	
24,700.0	12,500.0	23,324.0	11,211.5	206.2	204.0	-26.73	-12,016.5	-565.6	1,444.5	1,194.6	249.90	5.780	
24,800.0	12,500.0	23,403.3	11,211.7	207.8	205.3	-26.98	-12,095.5	-558.4	1,448.2	1,195.9	252.33	5.739	
24,887.2	12,500.0	23,478.1	11,212.0	209.2	206.5	-27.29	-12,169.8	-549.5	1,452.5	1,197.6	254.87	5.699	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #215H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 235-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	8.3	8.3	0.0	0.0	-90.34	-11.4	-1,896.2	1,896.2				
100.0	100.0	112.6	112.6	0.1	0.2	-90.34	-11.2	-1,896.1	1,896.1	1,895.8	0.31	6,196.765	
200.0	200.0	216.9	216.9	0.5	0.3	-90.32	-10.7	-1,895.7	1,895.7	1,894.9	0.83	2,287.991	
300.0	300.0	313.2	313.2	0.8	0.6	-90.31	-10.1	-1,895.3	1,895.3	1,893.8	1.49	1,268.908	
395.5	395.5	403.5	403.5	1.2	1.0	-90.30	-9.8	-1,895.2	1,895.2	1,893.0	2.16	878.371	
400.0	400.0	407.8	407.8	1.2	1.0	-90.30	-9.8	-1,895.2	1,895.2	1,893.0	2.19	865.831	
500.0	500.0	511.7	511.7	1.6	1.4	-90.29	-9.5	-1,895.1	1,895.1	1,892.2	2.92	649.547	
600.0	600.0	617.1	617.1	1.9	1.7	-90.27	-9.0	-1,894.8	1,894.8	1,891.2	3.65	518.911	
700.0	700.0	713.3	713.3	2.3	2.1	-90.25	-8.3	-1,894.4	1,894.5	1,890.1	4.35	435.074	
800.0	800.0	809.3	809.3	2.6	2.4	-90.22	-7.4	-1,894.2	1,894.3	1,889.2	5.06	374.711	
814.9	814.9	822.9	822.9	2.7	2.5	-90.22	-7.3	-1,894.2	1,894.3	1,889.1	5.16	367.331	
900.0	900.0	900.8	900.7	3.0	2.7	-90.20	-6.6	-1,894.4	1,894.4	1,888.7	5.74	330.170	
1,000.0	1,000.0	992.6	992.6	3.4	3.1	-90.18	-5.9	-1,895.0	1,895.0	1,888.6	6.42	295.136	
1,100.0	1,100.0	1,086.4	1,086.4	3.7	3.4	-90.16	-5.2	-1,895.9	1,896.0	1,888.9	7.11	266.739	
1,200.0	1,200.0	1,181.6	1,181.5	4.1	3.7	-90.14	-4.6	-1,897.1	1,897.3	1,889.5	7.80	243.289	
1,300.0	1,300.0	1,276.7	1,276.6	4.4	4.1	-90.13	-4.3	-1,898.5	1,898.8	1,890.3	8.49	223.706	
1,400.0	1,400.0	1,371.4	1,371.4	4.8	4.4	-90.13	-4.3	-1,900.2	1,900.6	1,891.4	9.17	207.148	
1,500.0	1,500.0	1,491.4	1,491.3	5.1	4.8	-90.14	-4.8	-1,902.3	1,902.4	1,892.4	9.95	191.263	
1,600.0	1,600.0	1,653.9	1,653.8	5.5	5.4	39.62	-7.5	-1,901.2	1,901.1	1,890.3	10.84	175.373	
1,700.0	1,700.0	1,847.4	1,847.0	5.8	6.0	39.69	-9.6	-1,891.6	1,894.1	1,882.2	11.81	160.380	
1,800.0	1,799.9	2,013.1	2,012.0	6.2	6.6	39.92	-9.5	-1,876.5	1,881.6	1,868.9	12.68	148.353	
1,900.0	1,899.7	2,120.4	2,118.7	6.5	7.0	40.20	-7.9	-1,864.8	1,866.1	1,852.7	13.39	139.394	
2,000.0	1,999.4	2,221.6	2,219.2	6.8	7.4	40.57	-4.9	-1,853.1	1,848.6	1,834.5	14.08	131.300	
2,100.0	2,098.9	2,308.0	2,305.0	7.2	7.7	40.95	-2.5	-1,843.5	1,830.2	1,815.5	14.73	124.230	
2,200.0	2,198.3	2,415.9	2,412.2	7.5	8.1	41.42	0.2	-1,831.9	1,811.1	1,795.6	15.45	117.217	
2,300.0	2,297.4	2,587.0	2,581.7	7.9	8.7	42.23	4.4	-1,808.9	1,788.0	1,771.7	16.33	109.492	
2,313.7	2,311.0	2,586.1	2,580.8	8.0	8.7	42.25	4.4	-1,809.1	1,784.6	1,768.2	16.39	108.869	
2,400.0	2,396.4	2,659.1	2,653.1	8.3	9.0	42.55	6.2	-1,798.6	1,763.2	1,746.3	16.96	103.935	
2,500.0	2,495.4	2,744.0	2,737.1	8.7	9.3	42.92	8.5	-1,786.8	1,739.1	1,721.5	17.63	98.622	
2,600.0	2,594.4	2,827.6	2,820.0	9.0	9.7	43.29	10.7	-1,775.8	1,715.8	1,697.5	18.31	93.725	
2,700.0	2,693.4	2,911.4	2,903.0	9.4	10.0	43.66	12.8	-1,765.4	1,693.3	1,674.3	18.98	89.195	
2,800.0	2,792.4	3,016.3	3,007.1	9.8	10.4	44.15	15.8	-1,752.7	1,671.2	1,651.5	19.72	84.754	
2,900.0	2,891.4	3,132.2	3,121.8	10.2	10.9	44.77	20.8	-1,737.4	1,648.2	1,627.7	20.48	80.480	
3,009.7	3,000.0	3,229.9	3,218.5	10.6	11.2	45.33	25.5	-1,724.1	1,622.7	1,601.5	21.25	76.346	
3,100.0	3,089.4	3,310.9	3,298.7	11.0	11.6	39.32	28.8	-1,713.5	1,602.1	1,580.2	21.90	73.168	
3,200.0	3,188.6	3,416.6	3,403.5	11.4	12.0	31.82	33.0	-1,699.5	1,578.9	1,556.3	22.64	69.742	
3,300.0	3,287.8	3,524.9	3,510.7	11.8	12.4	23.51	37.8	-1,684.5	1,554.7	1,531.3	23.38	66.490	
3,400.0	3,387.1	3,640.1	3,624.5	12.2	12.9	14.64	41.9	-1,667.4	1,529.2	1,505.0	24.13	63.373	
3,500.0	3,486.4	3,740.4	3,723.5	12.5	13.3	5.53	44.0	-1,651.6	1,502.2	1,477.4	24.84	60.468	
3,600.0	3,585.6	3,824.3	3,806.4	12.9	13.7	-3.24	46.9	-1,638.8	1,475.4	1,449.9	25.53	57.792	
3,700.0	3,684.8	3,907.3	3,888.3	13.3	14.0	-11.29	51.2	-1,626.6	1,449.0	1,422.8	26.21	55.281	
3,762.2	3,746.4	3,956.6	3,937.1	13.5	14.2	-15.87	54.0	-1,619.8	1,432.9	1,406.2	26.63	53.808	
3,800.0	3,783.9	3,986.6	3,966.8	13.7	14.3	-15.83	55.7	-1,615.8	1,423.3	1,396.4	26.88	52.942	
3,900.0	3,882.9	4,066.5	4,046.0	14.1	14.6	-15.74	59.8	-1,605.9	1,398.6	1,371.0	27.55	50.757	
4,000.0	3,982.0	4,163.0	4,141.7	14.4	15.0	-15.61	65.0	-1,594.7	1,374.6	1,346.4	28.26	48.644	
4,100.0	4,081.1	4,262.6	4,240.4	14.8	15.4	-15.42	71.6	-1,582.7	1,350.5	1,321.5	28.97	46.616	
4,200.0	4,180.1	4,354.5	4,331.3	15.2	15.8	-15.21	78.4	-1,571.7	1,326.5	1,296.8	29.68	44.699	
4,300.0	4,279.2	4,445.9	4,421.8	15.6	16.2	-14.98	85.4	-1,561.0	1,302.9	1,272.5	30.38	42.883	
4,400.0	4,378.2	4,533.2	4,508.3	16.0	16.5	-14.74	92.5	-1,551.3	1,279.8	1,248.7	31.08	41.173	
4,500.0	4,477.3	4,619.9	4,594.2	16.4	16.9	-14.46	100.3	-1,542.3	1,257.6	1,225.8	31.79	39.562	
4,600.0	4,576.4	4,720.8	4,694.1	16.8	17.3	-14.11	109.9	-1,532.2	1,235.9	1,203.4	32.52	38.003	
4,700.0	4,675.4	4,829.0	4,801.3	17.1	17.7	-13.79	118.6	-1,520.8	1,213.5	1,180.2	33.27	36.479	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #215H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 235-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.0	4,774.5	4,927.2	4,898.6	17.5	18.1	-13.49	126.2	-1,509.9	1,190.6	1,156.6	34.00	35.021	
4,900.0	4,873.6	5,024.1	4,994.5	17.9	18.5	-13.10	135.4	-1,498.9	1,167.7	1,133.0	34.73	33.623	
5,000.0	4,972.6	5,115.4	5,084.7	18.3	18.9	-12.68	144.9	-1,488.7	1,145.1	1,109.7	35.46	32.291	
5,100.0	5,071.7	5,206.7	5,174.9	18.7	19.3	-12.24	154.4	-1,478.9	1,123.1	1,086.9	36.20	31.027	
5,200.0	5,170.7	5,296.8	5,264.1	19.1	19.6	-11.80	163.9	-1,469.8	1,101.7	1,064.8	36.93	29.830	
5,300.0	5,269.8	5,387.0	5,353.4	19.5	20.0	-11.35	173.3	-1,461.2	1,081.1	1,043.4	37.67	28.698	
5,400.0	5,368.9	5,479.7	5,445.2	19.9	20.4	-10.88	182.8	-1,453.0	1,061.0	1,022.6	38.41	27.624	
5,500.0	5,467.9	5,573.2	5,537.9	20.3	20.7	-10.42	192.1	-1,445.2	1,041.5	1,002.3	39.15	26.600	
5,600.0	5,567.0	5,666.4	5,630.5	20.7	21.1	-9.98	200.8	-1,437.9	1,022.4	982.5	39.89	25.630	
5,700.0	5,666.0	5,759.8	5,723.3	21.1	21.4	-9.61	208.1	-1,431.3	1,003.8	963.2	40.63	24.709	
5,800.0	5,765.1	5,856.8	5,819.9	21.5	21.8	-9.28	214.8	-1,425.1	985.6	944.3	41.36	23.828	
5,900.0	5,864.2	5,955.1	5,917.8	21.9	22.2	-8.94	221.3	-1,418.8	967.5	925.4	42.10	22.979	
6,000.0	5,963.2	6,051.7	6,014.0	22.3	22.6	-8.62	227.3	-1,412.7	949.4	906.6	42.84	22.163	
6,100.0	6,062.3	6,148.2	6,110.2	22.7	22.9	-8.33	232.7	-1,407.0	931.5	888.0	43.57	21.381	
6,200.0	6,161.4	6,244.5	6,206.2	23.1	23.3	-8.07	237.6	-1,401.7	913.9	869.6	44.30	20.631	
6,300.0	6,260.4	6,340.9	6,302.4	23.5	23.6	-7.82	242.1	-1,396.6	896.5	851.5	45.02	19.911	
6,400.0	6,359.5	6,441.3	6,402.6	23.9	24.0	-7.55	246.9	-1,391.4	879.1	833.4	45.76	19.212	
6,500.0	6,458.5	6,542.2	6,503.1	24.3	24.4	-7.23	252.1	-1,385.7	861.5	815.0	46.50	18.528	
6,600.0	6,557.6	6,636.1	6,596.7	24.8	24.7	-6.91	257.2	-1,380.4	844.0	796.8	47.23	17.871	
6,700.0	6,656.7	6,730.0	6,690.4	25.2	25.1	-6.61	262.0	-1,375.8	827.1	779.1	47.96	17.245	
6,800.0	6,755.7	6,831.1	6,791.2	25.6	25.5	-6.30	266.8	-1,371.0	810.3	761.6	48.70	16.640	
6,900.0	6,854.8	6,932.7	6,892.7	26.0	25.8	-6.00	271.1	-1,366.0	793.2	743.8	49.43	16.046	
7,000.0	6,953.9	7,038.3	6,998.0	26.4	26.2	-5.71	275.0	-1,360.2	775.4	725.3	50.17	15.457	
7,100.0	7,052.9	7,141.0	7,100.5	26.8	26.6	-5.43	278.3	-1,353.8	756.8	705.9	50.90	14.870	
7,200.0	7,152.0	7,237.2	7,196.5	27.2	27.0	-5.20	280.9	-1,347.8	738.2	686.6	51.62	14.299	
7,300.0	7,251.0	7,333.6	7,292.7	27.6	27.3	-4.99	283.2	-1,342.3	719.8	667.5	52.35	13.750	
7,400.0	7,350.1	7,430.3	7,389.2	28.0	27.7	-4.80	285.2	-1,337.0	701.7	648.6	53.07	13.222	
7,500.0	7,449.2	7,526.4	7,485.2	28.4	28.0	-4.62	287.0	-1,332.1	683.8	630.0	53.80	12.712	
7,600.0	7,548.2	7,621.3	7,579.9	28.8	28.3	-4.46	288.6	-1,327.8	666.4	611.9	54.52	12.225	
7,700.0	7,647.3	7,716.5	7,675.1	29.3	28.7	-4.31	290.2	-1,324.0	649.6	594.3	55.24	11.760	
7,800.0	7,746.3	7,812.3	7,770.8	29.7	29.0	-4.20	291.4	-1,320.8	633.1	577.2	55.95	11.316	
7,900.0	7,845.4	7,908.2	7,866.7	30.1	29.4	-4.12	292.5	-1,318.0	617.2	560.5	56.66	10.892	
8,000.0	7,944.5	8,004.3	7,962.8	30.5	29.7	-4.06	293.3	-1,315.8	601.6	544.3	57.38	10.486	
8,100.0	8,043.5	8,101.4	8,059.8	30.9	30.0	-4.03	294.1	-1,314.0	586.5	528.4	58.08	10.097	
8,200.0	8,142.6	8,199.9	8,158.3	31.3	30.4	-4.02	294.7	-1,312.4	571.5	512.7	58.79	9.721	
8,300.0	8,241.7	8,297.8	8,256.2	31.7	30.7	-4.02	295.1	-1,310.9	556.6	497.1	59.50	9.355	
8,400.0	8,340.7	8,395.1	8,353.5	32.1	31.0	-4.02	295.7	-1,309.7	541.9	481.7	60.21	9.002	
8,500.0	8,439.8	8,492.8	8,451.2	32.5	31.4	-4.03	296.3	-1,308.7	527.6	466.7	60.91	8.661	
8,600.0	8,538.8	8,590.8	8,549.2	33.0	31.7	-4.05	296.8	-1,307.9	513.4	451.8	61.62	8.332	
8,700.0	8,637.9	8,689.7	8,648.1	33.4	32.0	-4.09	297.3	-1,307.4	499.4	437.0	62.33	8.012	
8,800.0	8,737.0	8,789.2	8,747.6	33.8	32.4	-4.15	297.6	-1,306.7	485.2	422.2	63.03	7.698	
8,900.0	8,836.0	8,887.9	8,846.3	34.2	32.7	-4.23	297.7	-1,306.2	471.1	407.4	63.73	7.392	
9,000.0	8,935.1	8,986.4	8,944.7	34.6	33.0	-4.37	297.5	-1,305.8	457.0	392.6	64.42	7.094	
9,100.0	9,034.2	9,084.8	9,043.1	35.0	33.4	-4.56	297.0	-1,305.6	443.1	378.0	65.11	6.806	
9,200.0	9,133.2	9,183.3	9,141.6	35.4	33.7	-4.78	296.4	-1,305.7	429.4	363.6	65.79	6.527	
9,300.0	9,232.3	9,282.9	9,241.2	35.8	34.0	-5.05	295.6	-1,305.8	415.6	349.1	66.46	6.253	
9,400.0	9,331.3	9,382.8	9,341.1	36.3	34.3	-5.38	294.5	-1,305.8	401.7	334.5	67.13	5.983	
9,500.0	9,430.4	9,483.8	9,442.1	36.7	34.6	-5.76	293.1	-1,305.5	387.4	319.6	67.81	5.713	
9,600.0	9,529.5	9,584.8	9,543.1	37.1	34.9	-6.13	291.8	-1,304.6	372.6	304.1	68.49	5.440	
9,700.0	9,628.5	9,683.4	9,641.7	37.5	35.3	-6.53	290.4	-1,303.5	357.5	288.4	69.17	5.169	
9,800.0	9,727.6	9,781.9	9,740.2	37.9	35.6	-7.02	288.6	-1,302.5	342.6	272.7	69.85	4.904	
9,900.0	9,826.6	9,880.5	9,838.7	38.3	35.9	-7.63	286.6	-1,301.7	327.7	257.2	70.52	4.647	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #215H - Wellbore #1 - Actual — **Offset Site Error:** 0.0 usft

Survey Program: 235-MWD — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.0	9,925.7	9,979.0	9,937.2	38.7	36.2	-8.36	284.2	-1,301.2	313.0	241.8	71.20	4.397	
10,100.0	10,024.8	10,073.1	10,031.3	39.2	36.5	-8.99	282.8	-1,301.3	299.3	227.4	71.88	4.164	
10,200.0	10,123.8	10,169.0	10,127.2	39.6	36.8	-9.41	283.0	-1,302.4	287.0	214.4	72.56	3.955	
10,300.0	10,222.9	10,269.2	10,227.4	40.0	37.2	-9.83	283.6	-1,303.8	274.9	201.7	73.25	3.754	
10,400.0	10,322.0	10,369.1	10,327.3	40.4	37.5	-10.37	283.7	-1,304.9	262.6	188.7	73.93	3.552	
10,500.0	10,421.0	10,468.3	10,426.4	40.8	37.8	-11.02	283.5	-1,306.0	250.2	175.6	74.60	3.353	
10,600.0	10,520.1	10,567.5	10,525.6	41.2	38.1	-11.80	283.1	-1,307.1	237.8	162.5	75.28	3.159	
10,700.0	10,619.1	10,666.8	10,624.9	41.6	38.4	-12.68	282.6	-1,308.2	225.5	149.5	75.96	2.968	
10,800.0	10,718.2	10,766.1	10,724.2	42.1	38.8	-13.70	282.1	-1,309.3	213.1	136.5	76.63	2.781	
10,900.0	10,817.3	10,865.2	10,823.4	42.5	39.1	-14.86	281.4	-1,310.3	200.7	123.4	77.31	2.596	
11,000.0	10,916.3	10,963.9	10,922.1	42.9	39.4	-16.21	280.6	-1,311.4	188.6	110.6	78.00	2.418	
11,100.0	11,015.4	11,061.5	11,019.6	43.3	39.7	-17.83	279.5	-1,312.9	177.0	98.3	78.68	2.249	
11,200.0	11,114.5	11,159.2	11,117.2	43.7	40.0	-20.77	275.3	-1,316.1	167.0	87.6	79.37	2.104	
11,229.9	11,144.0	11,188.9	11,146.7	43.8	40.1	-22.53	271.7	-1,317.0	164.2	84.6	79.59	2.063	
11,300.0	11,213.6	11,258.3	11,214.6	44.1	40.3	-28.74	257.9	-1,318.8	158.5	78.4	80.16	1.978	
11,368.8	11,281.9	11,322.7	11,275.9	44.4	40.5	-37.13	238.4	-1,319.0	155.9	75.2	80.76	1.931	CC, ES, SF
11,400.0	11,312.9	11,349.4	11,300.7	44.5	40.5	-41.29	228.5	-1,318.7	156.7	75.8	80.91	1.936	
11,500.0	11,412.4	11,427.5	11,370.3	44.9	40.7	-54.69	193.3	-1,317.4	170.9	90.9	80.00	2.136	
11,600.0	11,512.1	11,494.3	11,426.1	45.3	40.8	-65.98	156.5	-1,316.3	205.1	128.5	76.64	2.676	
11,700.0	11,611.9	11,548.1	11,467.8	45.7	40.9	-73.98	122.6	-1,316.1	256.3	184.6	71.70	3.574	
11,800.0	11,711.8	11,595.0	11,501.1	46.0	41.0	-79.94	89.6	-1,316.9	319.9	252.6	67.23	4.758	
11,900.0	11,811.7	11,632.2	11,525.3	46.4	41.0	-84.15	61.4	-1,318.2	391.7	328.7	63.05	6.213	
12,000.0	11,911.7	11,665.4	11,545.4	46.7	41.0	-87.61	35.0	-1,319.9	469.3	409.4	59.80	7.847	
12,015.3	11,927.0	11,670.1	11,548.0	46.7	41.0	-155.81	31.2	-1,320.1	481.5	422.1	59.36	8.111	
12,050.0	11,961.7	11,691.0	11,559.6	46.8	41.0	16.70	13.8	-1,321.4	509.2	449.9	59.36	8.578	
12,100.0	12,011.4	11,693.0	11,560.7	47.0	41.1	15.03	12.1	-1,321.5	547.3	490.7	56.60	9.670	
12,150.0	12,060.5	11,713.9	11,571.6	47.1	41.1	13.14	-5.6	-1,323.0	583.8	528.2	55.54	10.511	
12,200.0	12,108.5	11,741.0	11,584.8	47.3	41.1	11.60	-29.2	-1,325.1	618.5	563.6	54.89	11.268	
12,250.0	12,155.2	11,741.0	11,584.8	47.4	41.1	10.77	-29.2	-1,325.1	651.1	599.0	52.09	12.498	
12,300.0	12,200.1	11,741.0	11,584.8	47.5	41.1	10.03	-29.2	-1,325.1	682.6	633.1	49.48	13.795	
12,350.0	12,243.0	11,778.4	11,600.7	47.6	41.1	9.10	-62.9	-1,328.4	710.4	661.0	49.41	14.378	
12,400.0	12,283.5	11,793.7	11,606.3	47.7	41.1	8.51	-77.1	-1,329.7	737.0	689.1	47.89	15.391	
12,450.0	12,321.2	11,836.0	11,619.1	47.8	41.1	7.88	-117.2	-1,333.7	762.9	715.0	47.92	15.920	
12,500.0	12,355.9	11,836.0	11,619.1	47.9	41.1	7.57	-117.2	-1,333.7	784.2	738.6	45.67	17.173	
12,550.0	12,387.4	11,836.0	11,619.1	47.9	41.1	7.29	-117.2	-1,333.7	804.3	760.5	43.74	18.389	
12,600.0	12,415.4	11,836.0	11,619.1	48.0	41.1	7.04	-117.2	-1,333.7	822.9	780.7	42.18	19.509	
12,650.0	12,439.6	11,875.7	11,627.4	48.1	41.1	6.73	-155.9	-1,337.1	837.6	795.5	42.08	19.904	
12,700.0	12,460.0	11,893.3	11,630.1	48.1	41.1	6.51	-173.2	-1,338.3	850.7	809.3	41.40	20.547	
12,750.0	12,476.3	11,931.0	11,633.5	48.2	41.2	6.24	-210.7	-1,340.4	862.0	820.8	41.27	20.886	
12,800.0	12,488.4	11,931.0	11,633.5	48.3	41.2	6.16	-210.7	-1,340.4	869.6	828.9	40.65	21.391	
12,850.0	12,496.2	11,958.0	11,634.6	48.3	41.2	5.99	-237.6	-1,341.4	875.0	834.4	40.60	21.552	
12,900.0	12,499.8	11,989.7	11,635.2	48.4	41.3	5.81	-269.3	-1,342.0	877.2	836.5	40.65	21.576	
12,915.3	12,500.0	11,999.3	11,635.3	48.5	41.3	5.76	-278.9	-1,342.0	877.2	836.5	40.68	21.560	
12,936.7	12,500.0	12,012.9	11,635.2	48.5	41.4	5.68	-292.5	-1,342.0	877.1	836.3	40.74	21.528	
13,000.0	12,500.0	12,066.6	11,634.2	48.6	41.5	5.36	-346.2	-1,341.1	877.7	836.7	40.92	21.449	
13,100.0	12,500.0	12,168.9	11,632.1	48.9	41.9	4.89	-448.5	-1,338.7	879.2	838.0	41.22	21.328	
13,182.7	12,500.0	12,249.0	11,630.7	49.1	42.2	4.64	-528.5	-1,336.3	880.3	838.7	41.58	21.171	
13,200.0	12,500.0	12,263.2	11,630.4	49.2	42.2	4.62	-542.6	-1,335.9	880.7	839.0	41.68	21.129	
13,300.0	12,500.0	12,372.6	11,627.3	49.5	42.7	4.48	-652.0	-1,333.5	883.4	841.2	42.15	20.957	
13,400.0	12,500.0	12,463.1	11,626.4	50.0	43.2	4.35	-742.5	-1,331.1	884.3	841.5	42.76	20.678	
13,500.0	12,500.0	12,576.4	11,623.1	50.4	43.8	4.19	-855.7	-1,328.4	887.3	844.0	43.32	20.483	
13,600.0	12,500.0	12,675.3	11,622.6	50.9	44.5	3.99	-954.5	-1,324.9	887.5	843.6	43.97	20.184	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #215H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 235-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,700.0	12,500.0	12,790.3	11,621.7	51.5	45.2	3.61	-1,069.3	-1,318.6	888.0	843.4	44.59	19.914	
13,800.0	12,500.0	12,888.9	11,622.0	52.1	46.0	3.18	-1,167.7	-1,311.5	887.3	842.1	45.28	19.596	
13,820.9	12,500.0	12,904.9	11,622.0	52.2	46.1	3.11	-1,183.6	-1,310.3	887.3	841.8	45.45	19.523	
13,900.0	12,500.0	12,967.0	11,621.2	52.8	46.6	2.84	-1,245.5	-1,306.0	888.1	842.0	46.11	19.260	
14,000.0	12,500.0	13,109.3	11,621.9	53.5	47.8	2.31	-1,387.6	-1,297.0	887.1	840.3	46.80	18.955	
14,100.0	12,500.0	13,208.5	11,624.3	54.2	48.7	1.95	-1,486.6	-1,290.9	884.5	836.8	47.64	18.567	
14,200.0	12,500.0	13,309.7	11,627.1	55.0	49.6	1.64	-1,587.6	-1,285.6	881.6	833.1	48.52	18.170	
14,300.0	12,500.0	13,413.6	11,630.0	55.9	50.6	1.28	-1,691.2	-1,279.7	878.7	829.2	49.44	17.773	
14,400.0	12,500.0	13,503.2	11,632.5	56.7	51.5	0.97	-1,780.7	-1,274.5	875.8	825.4	50.38	17.383	
14,500.0	12,500.0	13,587.4	11,633.5	57.6	52.3	0.88	-1,864.8	-1,272.7	874.6	823.2	51.41	17.012	
14,514.3	12,500.0	13,599.5	11,633.5	57.8	52.5	0.88	-1,876.9	-1,272.5	874.6	823.0	51.56	16.961	
14,600.0	12,500.0	13,672.0	11,632.9	58.6	53.2	0.88	-1,949.4	-1,272.3	875.2	822.7	52.51	16.667	
14,700.0	12,500.0	13,786.5	11,631.2	59.5	54.4	0.94	-2,063.9	-1,272.7	876.9	823.3	53.55	16.375	
14,779.3	12,500.0	13,864.4	11,631.7	60.3	55.3	0.98	-2,141.9	-1,273.0	876.4	821.9	54.43	16.101	
14,800.0	12,500.0	13,881.6	11,631.7	60.5	55.4	0.99	-2,159.0	-1,273.1	876.4	821.7	54.67	16.031	
14,900.0	12,500.0	13,968.9	11,630.6	61.5	56.4	1.07	-2,246.3	-1,274.0	877.6	821.8	55.85	15.713	
15,000.0	12,500.0	14,055.7	11,628.5	62.6	57.4	1.18	-2,333.1	-1,275.4	880.2	823.1	57.09	15.418	
15,100.0	12,500.0	14,179.4	11,624.9	63.7	58.8	1.30	-2,456.7	-1,276.7	883.3	825.1	58.15	15.189	
15,200.0	12,500.0	14,286.8	11,625.0	64.8	60.1	1.34	-2,564.1	-1,276.8	883.3	823.9	59.32	14.890	
15,234.7	12,500.0	14,320.0	11,625.0	65.2	60.5	1.34	-2,597.3	-1,276.6	883.2	823.5	59.74	14.785	
15,300.0	12,500.0	14,382.3	11,624.9	65.9	61.2	1.33	-2,659.6	-1,276.3	883.3	822.8	60.53	14.593	
15,400.0	12,500.0	14,470.7	11,624.0	67.0	62.3	1.34	-2,748.0	-1,276.0	884.3	822.5	61.80	14.310	
15,500.0	12,500.0	14,593.9	11,624.0	68.2	63.9	1.35	-2,871.2	-1,275.6	884.3	821.3	62.95	14.047	
15,554.7	12,500.0	14,640.0	11,624.2	68.8	64.5	1.38	-2,917.3	-1,275.9	884.0	820.4	63.67	13.885	
15,600.0	12,500.0	14,680.0	11,624.1	69.4	65.0	1.44	-2,957.2	-1,276.6	884.2	819.9	64.26	13.759	
15,700.0	12,500.0	14,780.4	11,623.4	70.6	66.2	1.59	-3,057.6	-1,278.6	884.9	819.3	65.55	13.499	
15,800.0	12,500.0	14,885.1	11,623.4	71.8	67.6	1.69	-3,162.3	-1,279.7	884.9	818.1	66.83	13.241	
15,900.0	12,500.0	14,974.9	11,622.9	73.0	68.8	1.76	-3,252.1	-1,280.3	885.5	817.4	68.17	12.990	
16,000.0	12,500.0	15,071.1	11,621.3	74.3	70.0	1.81	-3,348.3	-1,280.8	887.2	817.7	69.50	12.766	
16,100.0	12,500.0	15,190.3	11,620.9	75.6	71.6	1.90	-3,467.5	-1,281.6	887.6	816.8	70.76	12.544	
16,200.0	12,500.0	15,293.9	11,621.9	76.9	73.0	2.02	-3,571.1	-1,283.0	886.6	814.5	72.10	12.297	
16,300.0	12,500.0	15,417.9	11,624.2	78.2	74.7	2.11	-3,695.1	-1,283.9	884.9	811.5	73.39	12.058	
16,400.0	12,500.0	15,501.6	11,626.8	79.5	75.9	2.12	-3,778.7	-1,283.6	882.0	807.2	74.78	11.794	
16,500.0	12,500.0	15,626.9	11,630.2	80.8	77.6	2.12	-3,904.0	-1,282.8	879.4	803.3	76.07	11.561	
16,572.6	12,500.0	15,658.6	11,630.7	81.8	78.1	2.13	-3,935.6	-1,282.9	877.9	800.8	77.17	11.376	
16,600.0	12,500.0	15,672.9	11,630.6	82.1	78.3	2.14	-3,950.0	-1,283.0	878.1	800.5	77.60	11.316	
16,700.0	12,500.0	15,735.6	11,627.9	83.5	79.1	2.23	-4,012.6	-1,284.2	882.1	803.0	79.17	11.143	
16,800.0	12,500.0	15,830.6	11,622.3	84.8	80.5	2.30	-4,107.5	-1,285.1	888.1	807.5	80.57	11.022	
16,900.0	12,500.0	15,933.3	11,615.9	86.2	82.0	2.32	-4,210.0	-1,285.1	894.4	812.5	81.93	10.916	
17,000.0	12,500.0	16,077.1	11,610.2	87.6	84.0	2.29	-4,353.6	-1,284.4	898.6	815.5	83.11	10.811	
17,100.0	12,500.0	16,163.7	11,609.0	89.0	85.3	2.21	-4,440.2	-1,282.7	899.9	815.4	84.54	10.645	
17,200.0	12,500.0	16,257.5	11,606.0	90.4	86.6	2.02	-4,533.8	-1,279.5	903.0	817.1	85.91	10.511	
17,300.0	12,500.0	16,352.9	11,602.6	91.8	88.0	1.77	-4,629.1	-1,275.2	906.4	819.1	87.26	10.387	
17,400.0	12,500.0	16,491.5	11,599.8	93.2	90.1	1.34	-4,767.5	-1,267.9	908.5	820.0	88.43	10.273	
17,500.0	12,500.0	16,608.9	11,601.6	94.6	91.8	0.84	-4,884.6	-1,259.5	906.7	817.0	89.69	10.109	
17,600.0	12,500.0	16,712.9	11,604.3	96.0	93.4	0.45	-4,988.3	-1,252.8	904.0	813.0	91.04	9.930	
17,700.0	12,500.0	16,796.8	11,606.4	97.5	94.6	0.22	-5,072.0	-1,248.7	901.6	809.1	92.49	9.748	
17,730.7	12,500.0	16,817.9	11,606.5	97.9	95.0	0.18	-5,093.2	-1,248.1	901.5	808.5	92.96	9.697	
17,800.0	12,500.0	16,870.6	11,605.9	98.9	95.8	0.16	-5,145.9	-1,247.5	902.2	808.2	94.00	9.598	
17,900.0	12,500.0	16,964.8	11,603.9	100.4	97.2	0.15	-5,240.0	-1,246.9	904.4	808.9	95.45	9.474	
18,000.0	12,500.0	17,056.1	11,601.1	101.8	98.5	0.14	-5,331.3	-1,246.3	907.4	810.5	96.91	9.363	
18,100.0	12,500.0	17,169.4	11,597.6	103.3	100.2	0.04	-5,444.5	-1,244.4	910.5	812.2	98.30	9.263	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #215H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 235-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,200.0	12,500.0	17,283.0	11,597.1	104.7	101.9	-0.10	-5,558.1	-1,241.7	910.9	811.2	99.69	9.138	
18,300.0	12,500.0	17,358.3	11,596.0	106.2	103.1	-0.09	-5,633.4	-1,241.4	912.4	811.2	101.21	9.015	
18,400.0	12,500.0	17,422.0	11,592.7	107.7	104.0	0.00	-5,697.0	-1,242.6	917.6	814.9	102.75	8.931	
18,500.0	12,500.0	17,543.6	11,586.0	109.2	105.9	0.22	-5,818.3	-1,245.6	923.0	818.9	104.18	8.860	
18,600.0	12,500.0	17,629.2	11,581.2	110.7	107.2	0.35	-5,903.7	-1,247.4	928.7	823.0	105.68	8.788	
18,700.0	12,500.0	17,725.3	11,575.0	112.2	108.6	0.53	-5,999.7	-1,249.8	935.2	828.0	107.16	8.726	
18,800.0	12,500.0	17,814.2	11,568.5	113.7	110.0	0.70	-6,088.3	-1,252.4	942.4	833.8	108.66	8.673	
18,900.0	12,500.0	17,914.6	11,560.1	115.2	111.5	0.91	-6,188.3	-1,255.6	950.9	840.8	110.16	8.633	
19,000.0	12,500.0	18,086.7	11,555.6	116.7	114.1	1.10	-6,360.2	-1,258.0	952.6	841.1	111.52	8.542	
19,100.0	12,500.0	18,158.9	11,554.4	118.2	115.2	1.27	-6,432.4	-1,260.5	954.3	841.1	113.11	8.437	
19,200.0	12,500.0	18,324.2	11,557.1	119.7	117.8	1.46	-6,597.5	-1,262.8	951.8	837.4	114.40	8.320	
19,298.4	12,500.0	18,387.8	11,558.2	121.2	118.7	1.46	-6,661.0	-1,262.6	950.1	834.1	116.01	8.190	
19,300.0	12,500.0	18,388.8	11,558.2	121.2	118.8	1.46	-6,662.1	-1,262.6	950.1	834.1	116.03	8.188	
19,400.0	12,500.0	18,458.2	11,557.1	122.7	119.8	1.48	-6,731.4	-1,262.7	951.8	834.2	117.61	8.093	
19,500.0	12,500.0	18,541.3	11,553.5	124.2	121.1	1.51	-6,814.4	-1,262.9	956.0	836.9	119.12	8.025	
19,600.0	12,500.0	18,640.6	11,548.3	125.8	122.7	1.49	-6,913.6	-1,262.3	961.3	840.7	120.60	7.971	
19,700.0	12,500.0	18,737.0	11,543.2	127.3	124.2	1.40	-7,009.9	-1,260.5	966.5	844.4	122.06	7.918	
19,800.0	12,500.0	18,912.2	11,539.7	128.8	126.9	1.05	-7,184.9	-1,253.9	968.7	845.4	123.27	7.859	
19,900.0	12,500.0	19,012.0	11,542.7	130.4	128.5	0.87	-7,284.6	-1,250.3	965.7	841.0	124.72	7.743	
20,000.0	12,500.0	19,122.6	11,545.3	131.9	130.2	0.70	-7,395.1	-1,247.0	963.3	837.1	126.14	7.637	
20,100.0	12,500.0	19,192.2	11,546.7	133.4	131.3	0.58	-7,464.6	-1,244.5	961.3	833.6	127.74	7.525	
20,200.0	12,500.0	20,200.0	11,547.9	135.0	147.3	0.34	-7,578.7	-1,240.1	960.3	824.4	135.89	7.066	
20,300.0	12,500.0	19,392.5	11,549.9	136.5	134.5	0.10	-7,664.7	-1,235.7	958.0	827.4	130.67	7.332	
20,305.7	12,500.0	19,396.1	11,549.9	136.6	134.5	0.09	-7,668.2	-1,235.6	958.0	827.3	130.77	7.326	
20,400.0	12,500.0	19,477.4	11,549.0	138.1	135.8	0.10	-7,749.5	-1,235.3	959.0	826.8	132.22	7.254	
20,500.0	12,500.0	19,569.6	11,547.6	139.6	137.2	0.66	-7,841.2	-1,244.3	960.7	826.9	133.82	7.179	
20,600.0	12,500.0	19,699.2	11,546.3	141.2	139.2	1.90	-7,969.1	-1,264.6	962.2	826.6	135.59	7.097	
20,624.9	12,500.0	19,717.6	11,546.4	141.6	139.5	2.00	-7,987.5	-1,266.2	962.2	826.1	136.03	7.073	
20,700.0	12,500.0	19,779.5	11,546.1	142.7	140.4	2.20	-8,049.3	-1,269.2	962.7	825.4	137.28	7.013	
20,800.0	12,500.0	19,895.8	11,545.1	144.3	142.3	1.99	-8,165.5	-1,265.4	963.5	824.8	138.66	6.948	
20,805.1	12,500.0	19,901.9	11,545.1	144.4	142.4	1.96	-8,171.6	-1,264.8	963.4	824.7	138.72	6.945	
20,900.0	12,500.0	19,939.2	11,543.5	145.9	142.9	1.83	-8,208.8	-1,262.5	966.5	826.3	140.20	6.894	
21,000.0	12,500.0	20,000.1	11,538.3	147.4	143.9	1.63	-8,269.4	-1,259.0	974.5	833.0	141.54	6.885	
21,100.0	12,500.0	20,106.7	11,527.9	149.0	145.6	1.26	-8,375.2	-1,252.5	984.2	841.2	142.94	6.885	
21,200.0	12,500.0	20,259.5	11,518.2	150.5	148.0	1.02	-8,527.6	-1,247.8	990.5	846.1	144.47	6.857	
21,300.0	12,500.0	20,374.0	11,514.7	152.1	149.9	0.99	-8,642.1	-1,247.0	993.6	847.6	145.96	6.808	
21,400.0	12,500.0	20,506.5	11,515.4	153.7	151.9	1.50	-8,774.2	-1,255.2	993.0	845.5	147.52	6.731	
21,500.0	12,500.0	20,615.2	11,517.1	155.3	153.6	1.95	-8,882.7	-1,262.5	991.7	842.5	149.16	6.649	
21,600.0	12,500.0	20,696.5	11,518.6	156.8	154.9	2.32	-8,963.7	-1,268.5	990.2	839.3	150.91	6.562	
21,700.0	12,500.0	20,876.2	11,524.7	158.4	157.7	3.70	-9,141.7	-1,291.2	988.5	835.9	152.60	6.478	
21,800.0	12,500.0	20,979.0	11,534.8	160.0	159.3	4.36	-9,243.6	-1,301.3	979.3	824.8	154.54	6.337	
21,900.0	12,500.0	21,049.7	11,540.1	161.6	160.4	4.63	-9,314.0	-1,305.2	972.4	815.9	156.59	6.210	
22,000.0	12,500.0	21,118.5	11,542.6	163.1	161.5	4.74	-9,382.8	-1,306.5	968.9	810.4	158.46	6.114	
22,100.0	12,500.0	21,208.6	11,543.9	164.7	162.9	4.69	-9,472.8	-1,305.3	967.4	807.3	160.02	6.045	
22,148.3	12,500.0	21,246.9	11,544.0	165.5	163.5	4.64	-9,511.1	-1,304.2	967.1	806.3	160.77	6.016	
22,200.0	12,500.0	21,288.3	11,543.7	166.3	164.2	4.57	-9,552.5	-1,302.9	967.4	805.8	161.55	5.988	
22,300.0	12,500.0	21,369.7	11,541.9	167.9	165.5	4.44	-9,633.8	-1,300.4	969.4	806.4	163.02	5.947	
22,400.0	12,500.0	21,553.3	11,545.1	169.5	168.4	4.01	-9,817.1	-1,292.1	966.8	803.1	163.76	5.904	
22,500.0	12,500.0	21,636.2	11,549.0	171.0	169.8	3.79	-9,899.7	-1,287.8	961.8	796.5	165.31	5.818	
22,600.0	12,500.0	21,716.9	11,550.8	172.6	171.1	3.54	-9,980.2	-1,283.2	959.2	792.4	166.82	5.750	
22,700.0	12,500.0	21,808.6	11,551.7	174.2	172.6	3.20	-10,071.7	-1,277.0	957.9	789.7	168.18	5.695	
22,800.0	12,500.0	21,904.7	11,552.1	175.8	174.1	2.84	-10,167.7	-1,270.5	957.1	787.6	169.52	5.646	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #215H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 235-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
22,872.1	12,500.0	21,974.0	11,552.1	177.0	175.2	2.60	-10,236.8	-1,266.3	956.9	786.3	170.52	5.612	
22,900.0	12,500.0	21,993.8	11,552.0	177.4	175.6	2.55	-10,256.6	-1,265.3	956.9	786.0	170.94	5.598	
23,000.0	12,500.0	22,070.3	11,550.5	179.0	176.8	2.37	-10,333.0	-1,262.0	958.8	786.4	172.42	5.561	
23,100.0	12,500.0	22,147.4	11,547.1	180.6	178.0	2.27	-10,410.0	-1,260.2	963.1	789.2	173.87	5.539	
23,200.0	12,500.0	22,249.3	11,541.5	182.2	179.7	2.24	-10,511.8	-1,259.4	968.6	793.2	175.39	5.522	
23,300.0	12,500.0	22,362.1	11,535.7	183.8	181.5	2.29	-10,624.4	-1,260.0	973.8	796.9	176.97	5.503	
23,388.6	12,500.0	22,488.9	11,535.8	185.2	183.5	2.18	-10,751.2	-1,257.5	972.9	794.6	178.22	5.459	
23,400.0	12,500.0	22,496.2	11,535.8	185.4	183.6	2.19	-10,758.5	-1,257.7	972.9	794.5	178.42	5.453	
23,500.0	12,500.0	22,657.9	11,538.6	187.0	186.2	2.67	-10,919.8	-1,265.0	972.1	792.3	179.76	5.408	
23,600.0	12,500.0	22,769.6	11,545.6	188.6	188.0	2.89	-11,031.4	-1,267.9	966.1	784.8	181.28	5.329	
23,700.0	12,500.0	22,858.0	11,552.2	190.2	189.4	2.77	-11,119.5	-1,265.2	958.5	775.7	182.89	5.241	
23,800.0	12,500.0	22,916.8	11,554.3	191.8	190.4	2.61	-11,178.1	-1,262.3	954.8	770.1	184.71	5.169	
23,900.0	12,500.0	23,020.4	11,556.0	193.4	192.1	2.31	-11,281.5	-1,256.8	953.0	766.9	186.07	5.122	
23,979.3	12,500.0	23,080.8	11,556.3	194.6	193.1	2.14	-11,341.9	-1,253.6	952.3	765.0	187.30	5.085	
24,000.0	12,500.0	23,097.2	11,556.3	195.0	193.3	2.09	-11,358.2	-1,252.8	952.4	764.8	187.61	5.076	
24,100.0	12,500.0	23,165.1	11,554.8	196.6	194.4	1.90	-11,426.0	-1,249.3	954.5	765.4	189.08	5.048	
24,200.0	12,500.0	23,248.2	11,550.2	198.2	195.8	1.63	-11,508.8	-1,244.5	959.7	769.2	190.45	5.039	
24,300.0	12,500.0	23,353.8	11,544.4	199.8	197.5	1.19	-11,614.0	-1,236.8	965.0	773.2	191.84	5.030	
24,400.0	12,500.0	23,497.5	11,539.6	201.4	199.8	0.56	-11,757.2	-1,225.7	968.5	775.2	193.23	5.012	
24,500.0	12,500.0	23,613.7	11,540.9	203.0	201.7	0.11	-11,873.0	-1,217.7	967.1	772.5	194.64	4.969	
24,537.4	12,500.0	23,640.5	11,541.1	203.6	202.2	0.02	-11,899.8	-1,216.0	966.9	771.7	195.25	4.952	
24,600.0	12,500.0	23,687.7	11,540.6	204.6	202.9	-0.13	-11,947.0	-1,213.2	967.5	771.3	196.23	4.930	
24,700.0	12,500.0	23,775.3	11,538.7	206.2	204.4	-0.40	-12,034.4	-1,208.2	969.7	772.0	197.76	4.904	
24,800.0	12,500.0	23,865.5	11,535.7	207.8	205.8	-0.70	-12,124.4	-1,202.7	973.2	773.9	199.28	4.883	
24,887.2	12,500.0	23,975.5	11,533.3	209.2	207.6	-1.25	-12,233.9	-1,193.0	975.0	774.3	200.70	4.858	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #216H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 166-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.34	-1.0	-170.0	170.0				
100.0	100.0	100.0	100.0	0.1	0.1	-90.38	-1.1	-170.0	170.0	169.8	0.28	614.513	
181.7	181.7	181.7	181.7	0.4	0.3	-90.46	-1.4	-170.0	170.0	169.3	0.69	246.163	
200.0	200.0	199.7	199.7	0.5	0.4	-90.48	-1.4	-170.1	170.1	169.2	0.85	199.462	
300.0	300.0	298.8	298.8	0.8	0.7	-90.57	-1.7	-170.5	170.5	168.9	1.56	109.130	
400.0	400.0	398.7	398.7	1.2	1.1	-90.68	-2.0	-171.3	171.3	169.0	2.28	75.265	
500.0	500.0	498.8	498.8	1.6	1.4	-90.89	-2.7	-172.0	172.1	169.1	2.99	57.520	
600.0	600.0	599.1	599.1	1.9	1.8	-91.20	-3.6	-172.6	172.7	168.9	3.71	46.554	
700.0	700.0	699.5	699.4	2.3	2.1	-91.61	-4.9	-173.0	173.1	168.6	4.43	39.100	
800.0	800.0	799.2	799.1	2.6	2.5	-92.18	-6.6	-173.4	173.5	168.4	5.14	33.739	
900.0	900.0	899.1	899.0	3.0	2.9	-92.91	-8.8	-173.8	174.1	168.2	5.86	29.705	
1,000.0	1,000.0	999.2	999.1	3.4	3.2	-93.64	-11.1	-174.2	174.6	168.0	6.58	26.543	
1,100.0	1,100.0	1,098.4	1,098.3	3.7	3.6	-94.32	-13.2	-174.7	175.2	167.9	7.29	24.020	
1,200.0	1,200.0	1,198.4	1,198.3	4.1	3.9	-95.00	-15.4	-175.6	176.3	168.3	8.01	22.007	
1,300.0	1,300.0	1,299.3	1,299.1	4.4	4.3	-95.71	-17.6	-176.2	177.0	168.3	8.73	20.272	
1,400.0	1,400.0	1,399.8	1,399.6	4.8	4.7	-96.43	-19.9	-176.2	177.4	167.9	9.45	18.765	
1,500.0	1,500.0	1,500.1	1,499.9	5.1	5.0	-97.12	-22.0	-176.1	177.5	167.3	10.17	17.453	
1,600.0	1,600.0	1,602.3	1,602.0	5.5	5.4	32.36	-23.4	-175.4	176.3	165.4	10.87	16.222	
1,700.0	1,700.0	1,704.5	1,704.2	5.8	5.7	32.87	-23.2	-173.6	172.2	160.7	11.55	14.916	
1,800.0	1,799.9	1,803.9	1,803.7	6.2	6.1	33.89	-22.4	-171.4	166.3	154.1	12.22	13.613	
1,900.0	1,899.7	1,903.4	1,903.1	6.5	6.4	35.27	-21.8	-169.2	159.0	146.1	12.89	12.337	
2,000.0	1,999.4	2,002.6	2,002.3	6.8	6.7	36.98	-21.8	-167.1	150.6	137.0	13.57	11.098	
2,100.0	2,098.9	2,101.6	2,101.2	7.2	7.1	39.11	-22.3	-165.3	141.3	127.0	14.26	9.906	
2,200.0	2,198.3	2,200.3	2,200.0	7.5	7.4	41.94	-23.1	-163.9	131.2	116.2	14.96	8.769	
2,300.0	2,297.4	2,298.6	2,298.2	7.9	7.8	45.75	-23.9	-162.9	120.6	105.0	15.66	7.705	
2,313.7	2,311.0	2,312.1	2,311.7	8.0	7.8	46.38	-23.9	-162.8	119.2	103.4	15.75	7.567	
2,400.0	2,396.4	2,396.5	2,396.1	8.3	8.1	50.75	-24.2	-162.7	110.9	94.6	16.36	6.779	
2,500.0	2,495.4	2,495.0	2,494.6	8.7	8.5	56.76	-24.1	-163.3	103.1	86.0	17.08	6.037	
2,600.0	2,594.4	2,594.0	2,593.7	9.0	8.8	63.46	-24.3	-164.2	96.7	78.9	17.80	5.434	
2,700.0	2,693.4	2,692.6	2,692.2	9.4	9.1	70.89	-24.5	-165.3	92.1	73.6	18.53	4.969	
2,799.4	2,791.7	2,789.8	2,789.4	9.8	9.5	79.59	-23.0	-166.4	90.4	71.1	19.26	4.692	CC
2,800.0	2,792.4	2,790.5	2,790.1	9.8	9.5	79.65	-23.0	-166.5	90.4	71.1	19.26	4.691	ES
2,900.0	2,891.4	2,889.1	2,888.6	10.2	9.8	89.03	-20.2	-167.8	91.9	72.0	19.99	4.599	
3,009.7	3,000.0	2,998.0	2,997.5	10.6	10.2	98.49	-17.7	-169.5	96.1	75.3	20.79	4.624	
3,100.0	3,089.4	3,087.6	3,087.1	11.0	10.5	99.06	-16.0	-171.1	100.3	78.9	21.44	4.679	
3,200.0	3,188.6	3,187.1	3,186.6	11.4	10.8	97.86	-14.4	-172.8	104.4	82.2	22.15	4.713	
3,300.0	3,287.8	3,288.3	3,287.7	11.8	11.2	95.38	-13.7	-174.3	106.9	84.0	22.87	4.674	
3,400.0	3,387.1	3,389.6	3,389.1	12.2	11.5	92.41	-14.7	-175.1	106.8	83.2	23.59	4.530	
3,500.0	3,486.4	3,488.8	3,488.2	12.5	11.9	89.67	-16.5	-175.2	105.2	80.9	24.28	4.333	
3,600.0	3,585.6	3,587.9	3,587.3	12.9	12.2	87.90	-18.2	-174.9	103.2	78.3	24.96	4.135	
3,700.0	3,684.8	3,687.3	3,686.6	13.3	12.6	87.85	-20.2	-174.0	100.9	75.3	25.64	3.937	
3,762.2	3,746.4	3,748.8	3,748.2	13.5	12.8	88.91	-21.7	-172.9	99.5	73.5	26.04	3.822	
3,800.0	3,783.9	3,786.2	3,785.5	13.7	12.9	92.50	-22.8	-172.1	99.0	72.7	26.29	3.764	
3,824.8	3,808.4	3,810.2	3,809.5	13.8	13.0	94.79	-23.3	-171.6	98.9	72.4	26.45	3.738	
3,900.0	3,882.9	3,883.9	3,883.2	14.1	13.3	101.68	-24.8	-170.2	99.8	72.9	26.93	3.707	SF
4,000.0	3,982.0	3,981.9	3,981.2	14.4	13.6	110.06	-25.8	-168.4	103.9	76.3	27.58	3.767	
4,100.0	4,081.1	4,080.0	4,079.2	14.8	14.0	116.76	-25.1	-167.4	110.7	82.4	28.24	3.919	
4,200.0	4,180.1	4,178.7	4,177.9	15.2	14.3	121.63	-22.3	-167.2	119.3	90.4	28.92	4.124	
4,300.0	4,279.2	4,277.8	4,277.0	15.6	14.6	125.63	-19.1	-167.2	128.7	99.1	29.61	4.346	
4,400.0	4,378.2	4,377.1	4,376.2	16.0	15.0	129.12	-16.0	-167.2	138.7	108.3	30.31	4.575	
4,500.0	4,477.3	4,476.5	4,475.6	16.4	15.3	132.16	-12.9	-167.2	148.9	117.9	31.01	4.803	
4,600.0	4,576.4	4,576.0	4,575.0	16.8	15.7	134.82	-10.0	-167.4	159.4	127.7	31.71	5.027	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #216H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 166-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,700.0	4,675.4	4,675.6	4,674.6	17.1	16.0	137.22	-7.4	-167.8	169.9	137.5	32.42	5.242	
4,800.0	4,774.5	4,775.2	4,774.2	17.5	16.3	139.41	-5.0	-168.2	180.5	147.4	33.12	5.450	
4,900.0	4,873.6	4,874.8	4,873.7	17.9	16.7	141.38	-2.7	-168.9	191.1	157.3	33.83	5.649	
5,000.0	4,972.6	4,974.2	4,973.1	18.3	17.0	143.16	-0.6	-169.6	201.8	167.3	34.54	5.843	
5,100.0	5,071.7	5,073.5	5,072.3	18.7	17.4	144.79	1.4	-170.4	212.6	177.4	35.24	6.033	
5,200.0	5,170.7	5,172.8	5,171.7	19.1	17.7	146.27	3.4	-171.2	223.6	187.6	35.95	6.218	
5,300.0	5,269.8	5,272.2	5,271.1	19.5	18.1	147.60	5.4	-172.0	234.6	197.9	36.66	6.398	
5,400.0	5,368.9	5,371.9	5,370.7	19.9	18.4	148.83	7.3	-173.0	245.6	208.2	37.38	6.571	
5,500.0	5,467.9	5,471.5	5,470.3	20.3	18.8	150.03	8.8	-174.1	256.5	218.5	38.09	6.736	
5,600.0	5,567.0	5,569.2	5,568.0	20.7	19.1	151.10	10.5	-174.9	267.8	229.0	38.79	6.905	
5,700.0	5,666.0	5,666.7	5,665.4	21.1	19.4	151.94	12.8	-175.2	279.8	240.3	39.48	7.087	
5,800.0	5,765.1	5,766.0	5,764.7	21.5	19.8	152.63	15.7	-175.3	292.1	251.9	40.19	7.267	
5,900.0	5,864.2	5,865.4	5,864.1	21.9	20.1	153.24	18.7	-175.5	304.4	263.5	40.91	7.440	
6,000.0	5,963.2	5,959.5	5,958.1	22.3	20.5	153.62	22.5	-174.9	317.5	275.9	41.57	7.638	
6,100.0	6,062.3	6,054.4	6,052.8	22.7	20.8	153.76	27.6	-173.0	332.1	289.8	42.23	7.863	
6,200.0	6,161.4	6,154.4	6,152.7	23.1	21.2	153.84	33.3	-170.7	347.0	304.1	42.96	8.078	
6,300.0	6,260.4	6,254.0	6,252.0	23.5	21.5	153.97	38.7	-168.7	361.6	318.0	43.68	8.280	
6,400.0	6,359.5	6,351.2	6,349.1	23.9	21.8	154.04	44.2	-166.5	376.5	332.1	44.37	8.485	
6,500.0	6,458.5	6,448.3	6,446.0	24.3	22.2	154.02	50.3	-164.0	391.8	346.7	45.07	8.693	
6,600.0	6,557.6	6,545.6	6,543.0	24.8	22.5	153.96	56.7	-161.1	407.4	361.7	45.76	8.903	
6,700.0	6,656.7	6,643.7	6,640.8	25.2	22.9	153.88	63.4	-157.8	423.4	377.0	46.47	9.112	
6,800.0	6,755.7	6,743.9	6,740.7	25.6	23.2	153.84	69.9	-154.6	439.3	392.1	47.20	9.307	
6,900.0	6,854.8	6,842.7	6,839.3	26.0	23.6	153.83	76.2	-151.7	454.9	406.9	47.92	9.492	
7,000.0	6,953.9	6,939.7	6,936.0	26.4	23.9	153.74	82.9	-148.7	470.7	422.1	48.62	9.682	
7,100.0	7,052.9	7,037.5	7,033.4	26.8	24.3	153.59	90.4	-145.3	486.9	437.6	49.33	9.871	
7,200.0	7,152.0	7,136.2	7,131.9	27.2	24.6	153.50	97.4	-141.8	503.1	453.1	50.05	10.053	
7,300.0	7,251.0	7,232.3	7,227.7	27.6	25.0	153.45	104.0	-138.3	519.5	468.7	50.74	10.238	
7,400.0	7,350.1	7,326.0	7,320.9	28.0	25.3	153.18	112.5	-134.2	536.6	485.2	51.40	10.439	
7,500.0	7,449.2	7,423.4	7,417.6	28.4	25.7	152.71	123.3	-129.5	554.5	502.4	52.11	10.640	
7,600.0	7,548.2	7,524.4	7,517.9	28.8	26.0	152.32	133.9	-124.9	572.1	519.2	52.87	10.820	
7,700.0	7,647.3	7,625.5	7,618.5	29.3	26.4	152.04	143.6	-120.6	589.2	535.6	53.63	10.987	
7,800.0	7,746.3	7,726.8	7,719.3	29.7	26.8	151.86	152.3	-116.7	606.0	551.6	54.38	11.142	
7,900.0	7,845.4	7,829.3	7,821.4	30.1	27.1	151.78	160.1	-113.1	622.2	567.0	55.15	11.281	
8,000.0	7,944.5	7,932.3	7,924.2	30.5	27.5	151.78	167.1	-110.2	637.7	581.8	55.92	11.404	
8,100.0	8,043.5	8,035.8	8,027.4	30.9	27.9	151.87	173.1	-107.8	652.6	595.9	56.69	11.512	
8,200.0	8,142.6	8,139.4	8,130.9	31.3	28.3	152.04	178.0	-106.1	666.8	609.3	57.45	11.606	
8,300.0	8,241.7	8,237.4	8,228.8	31.7	28.6	152.16	183.0	-104.7	680.8	622.6	58.17	11.703	
8,400.0	8,340.7	8,335.4	8,326.6	32.1	29.0	152.16	189.3	-103.4	694.8	635.9	58.89	11.798	
8,500.0	8,439.8	8,431.0	8,421.9	32.5	29.3	152.17	195.5	-101.8	709.1	649.5	59.59	11.901	
8,600.0	8,538.8	8,526.2	8,517.0	33.0	29.7	152.22	201.2	-99.7	724.0	663.7	60.28	12.010	
8,700.0	8,637.9	8,621.0	8,611.6	33.4	30.0	152.23	207.3	-97.1	739.4	678.4	60.97	12.126	
8,800.0	8,737.0	8,720.7	8,710.9	33.8	30.4	152.19	214.5	-94.0	755.2	693.5	61.71	12.238	
8,900.0	8,836.0	8,836.0	8,826.0	34.2	30.8	152.21	221.9	-92.0	769.7	707.1	62.58	12.299	
9,000.0	8,935.1	8,933.5	8,923.4	34.6	31.1	152.28	227.1	-91.5	782.8	719.5	63.30	12.366	
9,100.0	9,034.2	9,020.0	9,009.7	35.0	31.5	152.30	232.6	-90.0	797.2	733.2	63.93	12.470	
9,200.0	9,133.2	9,115.6	9,105.0	35.4	31.8	152.27	239.4	-87.1	812.9	748.2	64.63	12.578	
9,300.0	9,232.3	9,224.0	9,213.2	35.8	32.2	152.34	245.4	-84.5	827.9	762.4	65.44	12.651	
9,400.0	9,331.3	9,314.3	9,303.4	36.3	32.5	152.49	249.2	-82.7	842.4	776.4	66.09	12.747	
9,500.0	9,430.4	9,395.9	9,384.8	36.7	32.8	152.58	253.3	-79.5	858.9	792.2	66.65	12.886	
9,600.0	9,529.5	9,489.0	9,477.5	37.1	33.2	152.65	258.7	-74.2	877.1	809.7	67.32	13.028	
9,700.0	9,628.5	9,609.5	9,597.9	37.5	33.6	152.88	263.1	-68.9	893.9	825.6	68.25	13.097	
9,800.0	9,727.6	9,709.5	9,697.8	37.9	33.9	153.18	264.8	-66.0	909.1	840.1	68.98	13.179	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #216H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 166-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.0	9,826.6	9,801.7	9,789.9	38.3	34.3	153.39	267.5	-62.8	924.9	855.3	69.64	13.281	
10,000.0	9,925.7	9,908.1	9,896.2	38.7	34.6	153.57	271.4	-59.1	940.9	870.5	70.43	13.360	
10,100.0	10,024.8	10,021.5	10,009.5	39.2	35.1	153.81	274.4	-56.6	955.6	884.3	71.27	13.408	
10,200.0	10,123.8	10,112.8	10,100.8	39.6	35.4	153.97	277.4	-54.9	969.8	897.9	71.93	13.483	
10,300.0	10,222.9	10,213.8	10,201.7	40.0	35.7	154.11	281.2	-52.9	984.4	911.7	72.67	13.546	
10,400.0	10,322.0	10,313.1	10,300.9	40.4	36.1	154.32	283.6	-50.9	998.9	925.5	73.40	13.609	
10,500.0	10,421.0	10,409.6	10,397.4	40.8	36.4	154.58	284.8	-48.8	1,013.4	939.3	74.09	13.678	
10,600.0	10,520.1	10,511.1	10,498.9	41.2	36.8	154.89	285.5	-46.4	1,028.1	953.3	74.83	13.740	
10,700.0	10,619.1	10,629.2	10,616.9	41.6	37.2	155.23	286.2	-45.3	1,041.5	965.9	75.67	13.763	
10,800.0	10,718.2	10,733.1	10,720.8	42.1	37.6	155.54	286.5	-45.4	1,053.8	977.4	76.42	13.791	
10,900.0	10,817.3	10,833.0	10,820.8	42.5	37.9	155.84	286.6	-45.7	1,066.0	988.9	77.13	13.821	
11,000.0	10,916.3	10,937.7	10,925.5	42.9	38.3	156.17	286.3	-46.2	1,078.0	1,000.2	77.87	13.845	
11,100.0	11,015.4	11,048.8	11,036.4	43.3	38.6	156.64	283.5	-47.7	1,089.2	1,010.6	78.62	13.854	
11,200.0	11,114.5	11,167.1	11,153.2	43.7	39.0	157.86	266.4	-50.8	1,099.1	1,019.8	79.36	13.850	
11,229.9	11,144.0	11,202.9	11,187.2	43.8	39.1	158.53	255.3	-52.1	1,101.8	1,022.3	79.56	13.849	
11,300.0	11,213.6	11,283.8	11,261.5	44.1	39.3	160.38	223.7	-56.2	1,107.5	1,027.5	80.01	13.841	
11,400.0	11,312.9	11,361.5	11,329.5	44.5	39.5	162.48	186.3	-60.7	1,115.6	1,035.1	80.51	13.857	
11,500.0	11,412.4	11,405.5	11,366.2	44.9	39.6	163.81	162.2	-62.7	1,126.1	1,045.4	80.73	13.949	
11,600.0	11,512.1	11,441.6	11,394.8	45.3	39.7	165.00	140.2	-63.3	1,141.1	1,060.4	80.67	14.146	
11,700.0	11,611.9	11,465.0	11,412.5	45.7	39.8	165.83	124.9	-63.1	1,160.7	1,080.5	80.21	14.471	
11,800.0	11,711.8	11,498.7	11,436.9	46.0	39.8	167.06	101.7	-62.0	1,185.0	1,105.4	79.60	14.887	
11,900.0	11,811.7	11,536.0	11,462.2	46.4	39.9	168.44	74.5	-59.3	1,214.3	1,135.4	78.84	15.402	
12,000.0	11,911.7	11,536.0	11,462.2	46.7	39.9	168.51	74.5	-59.3	1,247.8	1,170.5	77.30	16.142	
12,015.3	11,927.0	11,556.1	11,475.3	46.7	40.0	101.51	59.3	-57.4	1,253.1	1,175.7	77.39	16.193	
12,050.0	11,961.7	11,569.1	11,483.6	46.8	40.0	-81.79	49.4	-56.0	1,265.8	1,188.8	77.02	16.434	
12,100.0	12,011.4	11,588.9	11,496.2	47.0	40.0	-79.18	34.3	-53.8	1,284.6	1,208.1	76.50	16.792	
12,150.0	12,060.5	11,609.8	11,509.3	47.1	40.1	-76.59	18.2	-51.4	1,303.7	1,227.7	75.98	17.157	
12,200.0	12,108.5	11,630.0	11,521.7	47.3	40.1	-74.10	2.5	-48.8	1,322.8	1,247.4	75.46	17.531	
12,250.0	12,155.2	11,630.0	11,521.7	47.4	40.1	-72.09	2.5	-48.8	1,342.2	1,267.7	74.55	18.003	
12,300.0	12,200.1	11,663.2	11,541.2	47.5	40.2	-69.59	-24.0	-44.2	1,360.8	1,286.5	74.30	18.317	
12,350.0	12,243.0	11,679.6	11,550.3	47.6	40.2	-67.51	-37.4	-41.7	1,379.4	1,305.7	73.75	18.705	
12,400.0	12,283.5	11,696.1	11,559.1	47.7	40.3	-65.57	-51.1	-39.1	1,397.5	1,324.2	73.23	19.082	
12,450.0	12,321.2	11,726.0	11,574.0	47.8	40.4	-63.71	-76.5	-34.0	1,415.0	1,342.0	73.00	19.384	
12,500.0	12,355.9	11,726.0	11,574.0	47.9	40.4	-62.16	-76.5	-34.0	1,431.5	1,359.2	72.30	19.800	
12,550.0	12,387.4	11,726.0	11,574.0	47.9	40.4	-60.67	-76.5	-34.0	1,447.5	1,375.8	71.67	20.198	
12,600.0	12,415.4	11,766.0	11,591.7	48.0	40.5	-59.36	-111.7	-26.8	1,461.7	1,389.9	71.78	20.364	
12,650.0	12,439.6	11,784.2	11,598.8	48.1	40.5	-58.22	-128.1	-23.5	1,475.1	1,403.5	71.59	20.605	
12,700.0	12,460.0	11,821.0	11,611.4	48.1	40.6	-57.32	-162.0	-16.7	1,487.6	1,415.8	71.73	20.738	
12,750.0	12,476.3	11,821.0	11,611.4	48.2	40.6	-56.41	-162.0	-16.7	1,498.2	1,426.7	71.46	20.965	
12,800.0	12,488.4	11,852.9	11,620.6	48.3	40.7	-55.86	-192.0	-11.1	1,507.5	1,435.8	71.68	21.030	
12,850.0	12,496.2	11,885.8	11,629.0	48.3	40.8	-55.52	-223.4	-5.7	1,515.0	1,443.0	71.98	21.048	
12,900.0	12,499.8	11,916.0	11,635.6	48.4	40.9	-55.35	-252.5	-1.1	1,520.6	1,448.3	72.31	21.029	
12,915.3	12,500.0	11,916.0	11,635.6	48.5	40.9	-55.24	-252.5	-1.1	1,522.0	1,449.7	72.34	21.040	
13,000.0	12,500.0	11,967.4	11,644.3	48.6	41.1	-55.83	-302.6	6.1	1,529.2	1,456.3	72.98	20.956	
13,100.0	12,500.0	12,024.9	11,650.0	48.9	41.3	-56.31	-359.3	13.8	1,538.2	1,464.6	73.61	20.898	
13,182.7	12,500.0	13,182.7	11,649.1	49.1	45.9	-56.52	-503.9	21.5	1,543.0	1,465.0	78.01	19.780	
13,200.0	12,500.0	12,237.7	11,647.0	49.2	42.1	-56.44	-571.6	20.8	1,542.9	1,468.3	74.68	20.660	
13,300.0	12,500.0	12,344.8	11,643.3	49.5	42.6	-56.25	-678.6	17.7	1,542.1	1,466.8	75.31	20.476	
13,400.0	12,500.0	12,490.0	11,641.7	50.0	43.3	-56.08	-823.7	12.4	1,539.3	1,463.0	76.33	20.166	
13,500.0	12,500.0	12,607.1	11,643.5	50.4	44.1	-56.01	-940.6	7.1	1,534.3	1,456.9	77.39	19.827	
13,600.0	12,500.0	12,708.3	11,645.9	50.9	44.7	-55.98	-1,041.7	2.4	1,528.8	1,450.4	78.43	19.493	
13,700.0	12,500.0	12,789.4	11,647.8	51.5	45.3	-55.95	-1,122.7	-1.3	1,523.5	1,444.1	79.38	19.193	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #216H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 166-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.0	12,500.0	12,838.5	11,648.1	52.1	45.7	-55.93	-1,171.8	-2.4	1,520.9	1,440.8	80.08	18.991	
13,840.2	12,500.0	12,864.0	11,647.8	52.4	45.8	-55.92	-1,197.3	-2.6	1,520.8	1,440.3	80.43	18.907	
13,900.0	12,500.0	12,912.6	11,647.0	52.8	46.2	-55.89	-1,245.8	-2.5	1,521.2	1,440.1	81.07	18.765	
14,000.0	12,500.0	13,004.6	11,645.3	53.5	47.0	-55.83	-1,337.9	-2.2	1,522.0	1,439.7	82.28	18.498	
14,100.0	12,500.0	13,098.0	11,641.7	54.2	47.8	-55.71	-1,431.1	-2.4	1,523.7	1,440.1	83.52	18.243	
14,200.0	12,500.0	13,212.5	11,638.4	55.0	48.8	-55.60	-1,545.6	-2.3	1,525.0	1,440.0	85.08	17.925	
14,300.0	12,500.0	13,303.6	11,636.3	55.9	49.6	-55.52	-1,636.7	-2.4	1,525.9	1,439.4	86.47	17.647	
14,400.0	12,500.0	13,391.1	11,634.0	56.7	50.5	-55.46	-1,724.2	-1.7	1,527.7	1,439.8	87.88	17.384	
14,500.0	12,500.0	13,486.0	11,631.4	57.6	51.4	-55.40	-1,819.1	-0.4	1,530.0	1,440.6	89.43	17.108	
14,600.0	12,500.0	13,577.7	11,629.4	58.6	52.4	-55.37	-1,910.7	1.6	1,532.7	1,441.7	91.03	16.839	
14,700.0	12,500.0	13,664.4	11,627.3	59.5	53.3	-55.35	-1,997.3	4.2	1,536.2	1,443.6	92.61	16.588	
14,800.0	12,500.0	13,758.3	11,621.3	60.5	54.3	-55.18	-2,091.0	5.2	1,540.4	1,446.2	94.20	16.352	
14,900.0	12,500.0	13,847.9	11,615.6	61.5	55.3	-55.03	-2,180.5	6.6	1,544.9	1,449.1	95.79	16.128	
15,000.0	12,500.0	14,089.7	11,608.7	62.6	58.1	-54.67	-2,421.9	0.5	1,542.5	1,443.1	99.45	15.511	
15,100.0	12,500.0	14,167.6	11,608.0	63.7	59.0	-54.56	-2,499.7	-3.1	1,538.9	1,437.9	101.01	15.235	
15,200.0	12,500.0	14,233.0	11,608.5	64.8	59.8	-54.56	-2,565.1	-3.8	1,537.3	1,434.8	102.51	14.997	
15,300.0	12,500.0	15,300.0	11,612.6	65.9	73.0	-54.72	-2,674.1	-1.7	1,536.2	1,421.1	115.10	13.347	
15,360.6	12,500.0	14,385.8	11,614.7	66.6	61.7	-54.80	-2,717.7	-0.7	1,535.7	1,429.7	105.96	14.494	
15,400.0	12,500.0	14,408.8	11,615.4	67.0	62.0	-54.83	-2,740.7	0.1	1,535.9	1,429.3	106.56	14.414	
15,500.0	12,500.0	14,480.9	11,615.7	68.2	62.9	-54.89	-2,812.7	2.6	1,538.1	1,429.8	108.28	14.204	
15,600.0	12,500.0	15,600.0	11,612.0	69.4	77.2	-54.79	-2,938.0	3.6	1,540.0	1,418.3	121.75	12.649	
15,700.0	12,500.0	14,694.4	11,610.1	70.6	65.6	-54.71	-3,026.1	3.3	1,540.8	1,428.1	112.67	13.675	
15,800.0	12,500.0	14,773.7	11,608.1	71.8	66.7	-54.68	-3,105.4	5.1	1,543.7	1,429.2	114.49	13.483	
15,900.0	12,500.0	14,876.9	11,606.1	73.0	68.0	-54.69	-3,208.5	8.4	1,547.1	1,430.3	116.79	13.247	
16,000.0	12,500.0	15,001.6	11,602.0	74.3	69.7	-54.58	-3,333.1	9.7	1,549.5	1,430.2	119.37	12.981	
16,100.0	12,500.0	15,078.5	11,598.4	75.6	70.7	-54.46	-3,409.9	9.7	1,551.8	1,430.7	121.11	12.813	
16,200.0	12,500.0	15,203.9	11,591.0	76.9	72.4	-54.21	-3,535.1	8.6	1,554.2	1,430.6	123.58	12.577	
16,300.0	12,500.0	15,292.6	11,588.6	78.2	73.6	-54.14	-3,623.8	9.1	1,556.0	1,430.3	125.62	12.386	
16,400.0	12,500.0	15,369.9	11,587.7	79.5	74.7	-54.16	-3,701.0	11.6	1,558.8	1,431.3	127.57	12.220	
16,500.0	12,500.0	15,509.7	11,586.2	80.8	76.7	-54.18	-3,840.7	15.6	1,561.6	1,430.9	130.71	11.948	
16,600.0	12,500.0	15,673.2	11,584.1	82.1	79.0	-54.04	-4,004.2	12.5	1,560.4	1,426.4	134.00	11.645	
16,700.0	12,500.0	15,783.5	11,583.8	83.5	80.5	-53.90	-4,114.3	6.8	1,555.9	1,419.5	136.38	11.408	
16,800.0	12,500.0	15,850.0	11,583.3	84.8	81.4	-53.85	-4,180.8	5.6	1,554.1	1,415.9	138.18	11.247	
16,823.7	12,500.0	15,850.0	11,583.3	85.2	81.4	-53.85	-4,180.8	5.6	1,553.9	1,415.6	138.33	11.233	
16,900.0	12,500.0	15,891.3	11,582.8	86.2	82.0	-53.84	-4,222.1	6.2	1,554.9	1,415.4	139.53	11.144	
17,000.0	12,500.0	15,958.9	11,582.5	87.6	83.0	-53.89	-4,289.6	9.1	1,558.3	1,416.9	141.38	11.022	
17,100.0	12,500.0	16,034.3	11,579.8	89.0	84.1	-53.87	-4,364.9	12.2	1,563.4	1,420.1	143.29	10.910	
17,200.0	12,500.0	16,150.9	11,574.0	90.4	85.8	-53.78	-4,481.3	16.3	1,568.8	1,422.8	145.99	10.746	
17,300.0	12,500.0	17,300.0	11,568.3	91.8	102.6	-53.68	-4,612.6	20.0	1,573.5	1,411.8	161.72	9.730	
17,400.0	12,500.0	16,417.3	11,564.8	93.2	89.7	-53.55	-4,747.4	19.5	1,574.1	1,422.2	151.96	10.359	
17,500.0	12,500.0	16,517.8	11,562.2	94.6	91.2	-53.45	-4,847.9	18.8	1,574.7	1,420.4	154.32	10.204	
17,600.0	12,500.0	16,581.4	11,559.0	96.0	92.1	-53.34	-4,911.4	18.2	1,576.6	1,420.6	155.95	10.109	
17,700.0	12,500.0	16,749.6	11,551.4	97.5	94.6	-53.05	-5,079.3	15.6	1,578.0	1,418.7	159.31	9.905	
17,800.0	12,500.0	16,865.8	11,553.4	98.9	96.4	-53.07	-5,195.5	14.4	1,575.7	1,413.5	162.14	9.718	
17,900.0	12,500.0	16,985.3	11,556.1	100.4	98.1	-53.09	-5,315.0	12.5	1,572.7	1,407.7	165.03	9.530	
18,000.0	12,500.0	17,055.6	11,558.6	101.8	99.2	-53.15	-5,385.2	12.3	1,570.1	1,402.9	167.17	9.392	
18,081.1	12,500.0	17,108.6	11,560.9	103.0	100.0	-53.24	-5,438.1	13.6	1,569.3	1,400.4	168.87	9.293	
18,100.0	12,500.0	17,120.3	11,561.2	103.3	100.2	-53.26	-5,449.8	13.9	1,569.3	1,400.1	169.24	9.273	
18,200.0	12,500.0	17,170.0	11,561.5	104.7	100.9	-53.29	-5,499.5	15.3	1,571.1	1,400.3	170.83	9.197	
18,300.0	12,500.0	17,234.5	11,559.6	106.2	101.9	-53.28	-5,563.9	17.5	1,575.5	1,402.9	172.56	9.130	
18,400.0	12,500.0	17,375.0	11,554.8	107.7	104.1	-53.28	-5,704.2	24.5	1,581.6	1,405.6	176.06	8.984	
18,500.0	12,500.0	17,453.0	11,555.1	109.2	105.2	-53.37	-5,782.0	28.8	1,585.5	1,407.2	178.31	8.892	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #216H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 166-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,600.0	12,500.0	17,497.8	11,554.4	110.7	105.9	-53.41	-5,826.7	31.8	1,591.8	1,412.1	179.62	8.862	
18,700.0	12,500.0	18,700.0	11,550.1	112.2	124.5	-53.46	-5,919.3	40.3	1,601.4	1,404.6	196.77	8.138	
18,800.0	12,500.0	17,771.0	11,548.7	113.7	110.2	-53.64	-6,098.9	51.5	1,605.7	1,418.7	186.98	8.587	
18,900.0	12,500.0	17,882.1	11,550.6	115.2	111.9	-53.83	-6,209.8	58.2	1,609.2	1,419.1	190.17	8.462	
19,000.0	12,500.0	18,057.8	11,546.8	116.7	114.6	-53.67	-6,385.3	56.7	1,609.3	1,415.3	193.97	8.296	
19,100.0	12,500.0	18,150.7	11,541.7	118.2	116.0	-53.41	-6,478.0	51.6	1,607.8	1,411.8	195.99	8.203	
19,200.0	12,500.0	18,269.8	11,534.1	119.7	117.8	-53.02	-6,596.6	44.2	1,606.3	1,408.1	198.22	8.104	
19,300.0	12,500.0	18,384.1	11,528.0	121.2	119.5	-52.65	-6,710.4	35.6	1,603.2	1,402.8	200.36	8.001	
19,400.0	12,500.0	18,514.8	11,523.4	122.7	121.5	-52.28	-6,840.6	25.1	1,598.4	1,395.7	202.70	7.886	
19,500.0	12,500.0	18,588.0	11,525.0	124.2	122.7	-52.27	-6,913.7	22.6	1,594.1	1,389.2	204.89	7.780	
19,600.0	12,500.0	18,700.3	11,531.8	125.8	124.4	-52.43	-7,025.8	21.9	1,589.4	1,381.4	208.01	7.641	
19,700.0	12,500.0	18,752.1	11,534.0	127.3	125.2	-52.49	-7,077.5	22.0	1,586.6	1,376.7	209.99	7.556	
19,800.0	12,500.0	18,840.7	11,535.7	128.8	126.6	-52.56	-7,166.1	23.2	1,586.2	1,373.7	212.54	7.463	
19,900.0	12,500.0	18,936.0	11,537.6	130.4	128.1	-52.63	-7,261.4	24.4	1,585.6	1,370.4	215.24	7.367	
19,935.4	12,500.0	18,967.1	11,538.0	130.9	128.6	-52.65	-7,292.4	24.8	1,585.6	1,369.4	216.13	7.336	
20,000.0	12,500.0	19,019.9	11,538.1	131.9	129.4	-52.66	-7,345.3	25.3	1,585.8	1,368.2	217.62	7.287	
20,100.0	12,500.0	19,119.7	11,537.3	133.4	131.0	-52.65	-7,445.0	26.4	1,586.8	1,366.6	220.25	7.205	
20,200.0	12,500.0	19,239.7	11,539.9	135.0	132.9	-52.77	-7,565.0	29.1	1,587.0	1,363.4	223.55	7.099	
20,300.0	12,500.0	19,335.4	11,537.6	136.5	134.4	-52.65	-7,660.6	27.3	1,586.5	1,360.7	225.87	7.024	
20,328.9	12,500.0	19,360.8	11,536.3	137.0	134.8	-52.60	-7,685.9	26.4	1,586.5	1,360.1	226.45	7.006	
20,400.0	12,500.0	19,420.9	11,533.2	138.1	135.7	-52.46	-7,746.0	24.5	1,586.8	1,358.9	227.83	6.965	
20,500.0	12,500.0	19,559.1	11,529.9	139.6	137.9	-52.29	-7,884.0	21.8	1,586.3	1,355.5	230.83	6.872	
20,600.0	12,500.0	19,652.8	11,531.5	141.2	139.4	-52.32	-7,977.8	21.4	1,584.7	1,351.2	233.44	6.788	
20,688.3	12,500.0	19,720.4	11,533.4	142.6	140.4	-52.40	-8,045.3	22.6	1,584.1	1,348.5	235.56	6.725	
20,700.0	12,500.0	19,729.4	11,533.7	142.7	140.6	-52.41	-8,054.3	22.9	1,584.1	1,348.2	235.85	6.716	
20,800.0	12,500.0	19,806.4	11,535.2	144.3	141.8	-52.50	-8,131.2	25.3	1,585.0	1,346.7	238.25	6.653	
20,900.0	12,500.0	19,865.8	11,534.8	145.9	142.7	-52.53	-8,190.6	27.3	1,587.8	1,347.8	240.04	6.615	
21,000.0	12,500.0	19,928.3	11,531.7	147.4	143.7	-52.48	-8,253.0	29.7	1,593.3	1,351.7	241.62	6.594	
21,100.0	12,500.0	20,120.2	11,520.6	149.0	146.8	-52.24	-8,444.5	33.7	1,599.3	1,353.4	245.95	6.503	
21,200.0	12,500.0	20,256.1	11,520.1	150.5	148.9	-52.17	-8,580.3	31.9	1,597.8	1,348.7	249.14	6.413	
21,298.2	12,500.0	20,331.0	11,521.1	152.1	150.1	-52.20	-8,655.2	32.2	1,597.1	1,345.7	251.40	6.353	
21,300.0	12,500.0	20,332.3	11,521.1	152.1	150.1	-52.20	-8,656.5	32.2	1,597.1	1,345.6	251.44	6.352	
21,400.0	12,500.0	20,412.4	11,523.8	153.7	151.4	-52.34	-8,736.5	35.5	1,597.9	1,343.8	254.05	6.290	
21,500.0	12,500.0	20,504.3	11,526.6	155.3	152.9	-52.50	-8,828.3	39.6	1,599.2	1,342.3	256.95	6.224	
21,600.0	12,500.0	20,580.3	11,525.2	156.8	154.1	-52.49	-8,904.2	41.5	1,601.9	1,342.8	259.07	6.183	
21,700.0	12,500.0	20,765.0	11,528.9	158.4	157.0	-52.63	-9,088.8	43.9	1,600.4	1,336.6	263.83	6.066	
21,800.0	12,500.0	20,864.4	11,532.4	160.0	158.6	-52.74	-9,188.1	44.5	1,598.4	1,331.6	266.77	5.992	
21,900.0	12,500.0	20,969.1	11,535.1	161.6	160.3	-52.80	-9,292.8	44.2	1,596.3	1,326.5	269.70	5.919	
22,000.0	12,500.0	21,058.1	11,536.1	163.1	161.7	-52.80	-9,381.8	43.2	1,594.3	1,322.1	272.21	5.857	
22,100.0	12,500.0	21,136.0	11,537.1	164.7	163.0	-52.82	-9,459.7	43.4	1,593.4	1,318.9	274.58	5.803	
22,112.8	12,500.0	21,146.1	11,537.4	164.9	163.1	-52.83	-9,469.7	43.6	1,593.4	1,318.5	274.90	5.796	
22,200.0	12,500.0	21,217.6	11,539.2	166.3	164.3	-52.93	-9,541.2	45.8	1,593.9	1,316.7	277.18	5.750	
22,300.0	12,500.0	21,308.0	11,541.4	167.9	165.7	-53.06	-9,631.5	49.3	1,595.2	1,315.2	280.02	5.697	
22,400.0	12,500.0	21,390.9	11,542.6	169.5	167.1	-53.16	-9,714.3	52.8	1,597.3	1,314.6	282.62	5.652	
22,500.0	12,500.0	21,483.5	11,542.8	171.0	168.6	-53.24	-9,806.9	56.9	1,600.4	1,315.0	285.38	5.608	
22,600.0	12,500.0	21,614.4	11,544.4	172.6	170.7	-53.40	-9,937.6	62.5	1,602.8	1,313.6	289.23	5.542	
22,700.0	12,500.0	21,675.4	11,545.0	174.2	171.7	-53.46	-9,998.5	65.0	1,605.2	1,313.9	291.22	5.512	
22,800.0	12,500.0	21,740.7	11,542.1	175.8	172.7	-53.42	-10,063.7	67.1	1,610.0	1,317.1	292.89	5.497	
22,900.0	12,500.0	21,922.5	11,534.4	177.4	175.6	-53.29	-10,245.2	72.1	1,615.4	1,318.1	297.30	5.433	
23,000.0	12,500.0	22,003.6	11,533.4	179.0	176.9	-53.27	-10,326.3	73.1	1,616.7	1,317.1	299.59	5.396	
23,100.0	12,500.0	22,169.3	11,530.8	180.6	179.6	-53.20	-10,492.0	73.9	1,618.4	1,315.0	303.39	5.334	
23,200.0	12,500.0	22,263.9	11,532.0	182.2	181.1	-53.19	-10,586.6	72.1	1,615.8	1,309.9	305.99	5.281	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #216H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 166-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
23,300.0	12,500.0	22,361.4	11,533.8	183.8	182.7	-53.23	-10,684.1	72.0	1,614.3	1,305.5	308.79	5.228	
23,400.0	12,500.0	22,491.4	11,539.6	185.4	184.8	-53.40	-10,814.0	72.8	1,611.8	1,299.3	312.47	5.158	
23,500.0	12,500.0	22,604.1	11,545.3	187.0	186.6	-53.54	-10,926.5	72.4	1,608.2	1,292.4	315.78	5.093	
23,600.0	12,500.0	22,704.0	11,552.3	188.6	188.2	-53.73	-11,026.1	72.0	1,603.3	1,284.2	319.05	5.025	
23,700.0	12,500.0	22,781.6	11,556.2	190.2	189.4	-53.83	-11,103.6	71.9	1,599.8	1,278.0	321.81	4.971	
23,800.0	12,500.0	22,852.0	11,558.3	191.8	190.6	-53.87	-11,174.0	71.1	1,597.2	1,273.0	324.19	4.927	
23,866.3	12,500.0	22,901.2	11,558.8	192.8	191.4	-53.87	-11,223.2	70.8	1,596.3	1,270.6	325.70	4.901	
23,900.0	12,500.0	22,918.1	11,558.8	193.4	191.6	-53.87	-11,240.1	71.0	1,596.5	1,270.2	326.29	4.893	
24,000.0	12,500.0	23,051.5	11,559.5	195.0	193.8	-53.94	-11,373.4	73.8	1,597.9	1,268.0	329.91	4.844	
24,100.0	12,500.0	23,256.9	11,559.8	196.6	197.1	-53.70	-11,578.3	63.0	1,592.8	1,259.7	333.16	4.781	
24,200.0	12,500.0	23,301.3	11,557.3	198.2	197.8	-53.52	-11,622.4	58.1	1,586.9	1,252.1	334.87	4.739	
24,300.0	12,500.0	23,382.4	11,550.7	199.8	199.1	-53.16	-11,702.9	50.8	1,584.0	1,247.8	336.26	4.711	
24,400.0	12,500.0	23,531.5	11,546.0	201.4	201.4	-52.77	-11,851.5	39.9	1,579.8	1,241.5	338.34	4.669	
24,500.0	12,500.0	23,584.3	11,544.6	203.0	202.3	-52.65	-11,904.2	36.6	1,575.7	1,235.6	340.16	4.632	
24,600.0	12,500.0	23,653.8	11,542.2	204.6	203.4	-52.51	-11,973.5	33.3	1,573.8	1,231.8	341.93	4.603	
24,656.4	12,500.0	23,694.8	11,539.8	205.5	204.0	-52.39	-12,014.4	31.4	1,573.5	1,230.7	342.81	4.590	
24,700.0	12,500.0	23,731.6	11,537.1	206.2	204.6	-52.27	-12,051.1	29.6	1,573.6	1,230.1	343.47	4.581	
24,800.0	12,500.0	23,820.1	11,530.2	207.8	206.0	-51.97	-12,139.2	25.4	1,574.3	1,229.3	344.96	4.564	
24,887.2	12,500.0	23,901.7	11,522.9	209.2	207.3	-51.67	-12,220.4	21.6	1,575.6	1,229.4	346.19	4.551	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #222H - Wellbore #1 - Actual Survey

Offset Site Error: 0.0 usft

Survey Program: 29-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.36	-0.6	-90.0	90.0				
100.0	100.0	100.0	100.0	0.1	0.3	-90.36	-0.6	-90.0	90.0	89.6	0.38	236.219	
200.0	200.0	200.2	200.2	0.5	0.6	-90.35	-0.6	-89.9	89.9	88.8	1.10	82.016	
300.0	300.0	300.5	300.5	0.8	1.0	-90.52	-0.8	-89.5	89.5	87.7	1.81	49.411	
400.0	400.0	401.5	401.4	1.2	1.3	-90.86	-1.3	-88.4	88.5	85.9	2.53	34.930	
500.0	500.0	501.6	501.6	1.6	1.7	-91.22	-1.9	-86.7	86.7	83.5	3.25	26.688	
600.0	600.0	600.9	600.9	1.9	2.0	-91.38	-2.1	-85.3	85.3	81.3	3.96	21.534	
700.0	700.0	700.8	700.7	2.3	2.4	-91.63	-2.4	-84.3	84.3	79.6	4.68	18.029	
800.0	800.0	800.2	800.1	2.6	2.7	-92.32	-3.4	-83.8	83.9	78.5	5.38	15.584	
900.0	900.0	900.5	900.4	3.0	3.1	-93.09	-4.5	-83.4	83.5	77.4	6.10	13.698	
967.5	967.5	967.5	967.5	3.2	3.3	-93.62	-5.3	-83.2	83.3	76.8	6.57	12.676	
1,000.0	1,000.0	999.9	999.8	3.4	3.5	-93.89	-5.7	-83.2	83.4	76.6	6.80	12.252	
1,100.0	1,100.0	1,099.9	1,099.8	3.7	3.8	-94.64	-6.8	-83.4	83.7	76.1	7.51	11.136	
1,200.0	1,200.0	1,198.5	1,198.4	4.1	4.1	-95.01	-7.4	-83.9	84.3	76.1	8.21	10.259	
1,300.0	1,300.0	1,295.5	1,295.4	4.4	4.5	-96.14	-9.4	-87.2	87.8	78.9	8.90	9.866	
1,400.0	1,400.0	1,394.1	1,393.7	4.8	4.8	-97.97	-13.0	-93.0	94.1	84.5	9.59	9.812	
1,500.0	1,500.0	1,493.8	1,493.1	5.1	5.2	-99.82	-17.2	-99.2	100.9	90.6	10.29	9.801	
1,600.0	1,600.0	1,594.1	1,593.2	5.5	5.5	28.40	-21.6	-105.1	106.7	95.8	10.99	9.713	
1,700.0	1,700.0	1,694.2	1,693.0	5.8	5.9	27.27	-26.1	-110.6	110.8	99.1	11.67	9.488	
1,800.0	1,799.9	1,793.1	1,791.7	6.2	6.2	27.04	-30.0	-116.6	113.6	101.3	12.35	9.202	
1,900.0	1,899.7	1,891.9	1,890.1	6.5	6.6	27.75	-32.9	-123.9	116.1	103.0	13.03	8.910	
2,000.0	1,999.4	1,992.2	1,990.1	6.8	6.9	28.66	-36.3	-131.4	117.2	103.5	13.72	8.540	
2,100.0	2,098.9	2,091.8	2,089.3	7.2	7.3	29.73	-40.2	-138.8	116.9	102.5	14.42	8.106	
2,200.0	2,198.3	2,191.1	2,188.3	7.5	7.7	31.97	-42.8	-146.9	115.6	100.4	15.12	7.645	
2,300.0	2,297.4	2,290.4	2,287.2	7.9	8.0	35.07	-44.7	-155.5	113.4	97.6	15.82	7.171	
2,313.7	2,311.0	2,304.0	2,300.8	8.0	8.1	35.54	-45.0	-156.7	113.1	97.2	15.92	7.106	
2,400.0	2,396.4	2,391.0	2,387.3	8.3	8.4	38.61	-46.8	-164.4	111.1	94.5	16.55	6.711	
2,500.0	2,495.4	2,492.4	2,488.5	8.7	8.8	42.75	-48.2	-171.6	107.4	90.1	17.29	6.209	
2,600.0	2,594.4	2,592.0	2,587.9	9.0	9.1	46.91	-49.9	-177.9	103.5	85.5	18.03	5.740	
2,700.0	2,693.4	2,691.7	2,687.3	9.4	9.5	51.27	-51.8	-184.6	100.5	81.7	18.78	5.351	
2,800.0	2,792.4	2,791.8	2,787.3	9.8	9.9	56.36	-53.0	-190.8	97.8	78.2	19.55	5.003	
2,900.0	2,891.4	2,892.4	2,887.7	10.2	10.2	62.41	-53.4	-195.8	95.2	74.8	20.33	4.681	
3,009.7	3,000.0	3,000.5	2,995.7	10.6	10.6	69.43	-53.8	-200.7	93.1	71.9	21.17	4.397	
3,051.3	3,041.2	3,041.5	3,036.6	10.8	10.8	69.07	-54.0	-203.1	93.0	71.5	21.49	4.328	
3,100.0	3,089.4	3,089.5	3,084.6	11.0	11.0	68.08	-54.4	-206.3	93.1	71.2	21.87	4.257	
3,200.0	3,188.6	3,189.8	3,184.6	11.4	11.3	64.43	-55.7	-213.4	92.8	70.1	22.65	4.097	
3,300.0	3,287.8	3,288.7	3,283.3	11.8	11.7	59.24	-56.9	-220.3	91.5	68.1	23.41	3.909	
3,400.0	3,387.1	3,389.0	3,383.3	12.2	12.1	53.20	-57.6	-227.4	89.5	65.3	24.18	3.701	
3,500.0	3,486.4	3,487.0	3,480.8	12.5	12.4	45.58	-58.5	-235.8	87.0	62.1	24.91	3.494	
3,600.0	3,585.6	3,584.2	3,577.4	12.9	12.8	36.57	-58.5	-247.3	85.9	60.3	25.60	3.357	
3,700.0	3,684.8	3,684.4	3,676.8	13.3	13.2	27.64	-57.5	-259.8	84.5	58.2	26.34	3.209	
3,762.2	3,746.4	3,746.1	3,738.0	13.5	13.4	22.55	-56.3	-267.1	83.1	56.3	26.78	3.101	
3,800.0	3,783.9	3,782.8	3,774.5	13.7	13.6	22.36	-55.1	-271.4	82.3	55.2	27.03	3.044	
3,824.3	3,808.0	3,806.1	3,797.6	13.8	13.6	22.48	-53.9	-274.2	82.1	55.0	27.17	3.023	CC, ES
3,900.0	3,882.9	3,879.0	3,869.7	14.1	13.9	24.19	-47.4	-282.6	83.6	56.0	27.61	3.027	
4,000.0	3,982.0	3,977.9	3,967.3	14.4	14.3	27.79	-35.4	-293.9	88.0	59.7	28.30	3.108	
4,100.0	4,081.1	4,078.3	4,066.3	14.8	14.6	31.19	-23.7	-305.0	92.2	63.1	29.07	3.170	
4,200.0	4,180.1	4,175.8	4,162.4	15.2	15.0	33.52	-12.2	-317.1	97.5	67.8	29.71	3.282	
4,300.0	4,279.2	4,273.3	4,257.8	15.6	15.4	34.87	1.1	-331.9	106.0	75.7	30.34	3.493	
4,400.0	4,378.2	4,373.4	4,355.7	16.0	15.8	35.91	14.8	-347.6	114.9	83.8	31.13	3.691	
4,500.0	4,477.3	4,474.0	4,454.2	16.4	16.2	36.65	27.9	-363.3	123.2	91.3	31.93	3.860	
4,600.0	4,576.4	4,575.1	4,553.2	16.8	16.6	36.26	39.1	-380.6	130.6	97.9	32.74	3.990	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #222H - Wellbore #1 - Actual Survey

Offset Site Error: 0.0 usft

Survey Program: 29-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,700.0	4,675.4	4,675.7	4,651.7	17.1	17.0	35.38	48.7	-398.4	137.0	103.5	33.52	4.088	
4,800.0	4,774.5	4,776.4	4,750.4	17.5	17.4	34.49	57.7	-416.1	143.0	108.7	34.30	4.170	
4,900.0	4,873.6	4,877.7	4,849.9	17.9	17.9	33.59	66.0	-433.7	148.2	113.1	35.10	4.222	
5,000.0	4,972.6	4,976.0	4,946.5	18.3	18.3	32.96	74.2	-450.2	153.2	117.4	35.80	4.279	
5,100.0	5,071.7	5,074.5	5,043.1	18.7	18.7	32.64	83.7	-466.7	159.3	122.8	36.51	4.363	
5,200.0	5,170.7	5,170.5	5,136.9	19.1	19.1	32.19	93.9	-484.0	166.9	129.8	37.13	4.496	
5,300.0	5,269.8	5,266.6	5,230.4	19.5	19.5	31.46	105.2	-503.3	176.7	139.0	37.74	4.683	
5,400.0	5,368.9	5,366.2	5,327.0	19.9	20.0	30.59	117.2	-524.4	187.5	149.0	38.49	4.872	
5,500.0	5,467.9	5,466.7	5,424.6	20.3	20.5	29.69	128.8	-545.7	198.0	158.7	39.27	5.041	
5,600.0	5,567.0	5,567.5	5,522.4	20.7	20.9	28.71	139.7	-567.2	207.9	167.9	40.05	5.192	
5,700.0	5,666.0	5,669.5	5,621.7	21.1	21.4	27.77	149.8	-588.5	217.0	176.1	40.86	5.310	
5,800.0	5,765.1	5,770.8	5,720.5	21.5	21.9	26.91	159.0	-608.9	224.9	183.3	41.65	5.400	
5,900.0	5,864.2	5,869.7	5,817.0	21.9	22.3	26.35	168.6	-628.3	232.9	190.6	42.37	5.498	
6,000.0	5,963.2	5,968.8	5,913.7	22.3	22.8	25.93	178.5	-647.3	241.1	198.0	43.10	5.593	
6,100.0	6,062.3	6,066.9	6,009.4	22.7	23.2	25.75	189.5	-665.9	249.8	206.0	43.82	5.701	
6,200.0	6,161.4	6,167.5	6,107.5	23.1	23.7	25.76	201.4	-684.5	258.8	214.2	44.60	5.803	
6,300.0	6,260.4	6,270.6	6,208.4	23.5	24.2	25.75	212.8	-703.0	266.8	221.3	45.45	5.870	
6,400.0	6,359.5	6,372.6	6,308.3	23.9	24.6	25.72	223.1	-720.5	273.6	227.3	46.26	5.914	
6,500.0	6,458.5	6,478.4	6,412.1	24.3	25.1	25.64	232.7	-738.1	279.2	232.1	47.14	5.924	
6,600.0	6,557.6	6,578.9	6,511.2	24.8	25.6	25.75	241.3	-753.1	283.3	235.4	47.92	5.912	
6,700.0	6,656.7	6,679.6	6,610.5	25.2	26.0	26.27	251.2	-766.6	287.3	238.6	48.71	5.898	
6,800.0	6,755.7	6,784.0	6,713.6	25.6	26.4	26.90	261.1	-779.5	290.4	240.9	49.57	5.860	
6,900.0	6,854.8	6,887.4	6,815.9	26.0	26.9	27.50	269.9	-791.5	292.2	241.8	50.40	5.798	
7,000.0	6,953.9	6,990.8	6,918.4	26.4	27.3	28.07	277.6	-802.7	292.8	241.6	51.22	5.717	
7,100.0	7,052.9	7,097.0	7,023.9	26.8	27.7	28.67	284.5	-813.3	292.2	240.1	52.06	5.612	
7,200.0	7,152.0	7,204.6	7,131.0	27.2	28.1	29.44	289.3	-821.4	288.4	235.5	52.89	5.452	
7,300.0	7,251.0	7,309.8	7,235.9	27.6	28.5	30.32	293.0	-827.8	283.0	229.3	53.69	5.271	
7,400.0	7,350.1	7,421.0	7,347.1	28.0	28.9	31.71	295.4	-830.9	274.7	220.2	54.45	5.045	
7,500.0	7,449.2	7,524.5	7,450.6	28.4	29.2	33.51	295.9	-830.4	263.2	208.0	55.23	4.766	
7,600.0	7,548.2	7,622.7	7,548.8	28.8	29.5	35.40	296.0	-829.4	251.5	195.4	56.07	4.485	
7,700.0	7,647.3	7,721.8	7,647.9	29.3	29.8	37.46	296.2	-828.6	240.2	183.3	56.91	4.221	
7,800.0	7,746.3	7,820.9	7,747.0	29.7	30.1	39.71	296.3	-827.9	229.2	171.4	57.77	3.967	
7,900.0	7,845.4	7,919.8	7,845.9	30.1	30.4	42.10	296.3	-827.4	218.6	160.0	58.65	3.728	
8,000.0	7,944.5	8,018.9	7,945.0	30.5	30.7	44.67	296.2	-827.1	208.4	148.8	59.53	3.500	
8,100.0	8,043.5	8,118.0	8,044.0	30.9	31.0	47.43	296.0	-827.0	198.6	138.2	60.44	3.287	
8,200.0	8,142.6	8,217.5	8,143.6	31.3	31.3	50.46	295.6	-826.9	189.2	127.8	61.35	3.084	
8,300.0	8,241.7	8,316.4	8,242.5	31.7	31.6	53.82	295.1	-826.7	180.2	118.0	62.28	2.894	
8,400.0	8,340.7	8,415.0	8,341.1	32.1	31.9	57.58	294.9	-826.2	172.1	108.9	63.22	2.723	
8,500.0	8,439.8	8,514.0	8,440.1	32.5	32.2	61.88	294.9	-825.2	165.1	100.9	64.16	2.573	
8,600.0	8,538.8	8,614.5	8,540.5	33.0	32.5	66.79	294.5	-823.8	158.6	93.5	65.07	2.437	
8,700.0	8,637.9	8,714.2	8,640.2	33.4	32.8	72.08	293.0	-822.2	152.2	86.3	65.96	2.308	
8,800.0	8,737.0	8,812.4	8,738.4	33.8	33.1	77.56	291.5	-821.0	147.3	80.5	66.80	2.206	
8,900.0	8,836.0	8,910.7	8,836.6	34.2	33.4	83.56	290.4	-819.2	144.4	76.8	67.55	2.137	
9,000.0	8,935.1	9,009.3	8,935.3	34.6	33.7	89.75	289.5	-817.3	143.3	75.1	68.19	2.102	
9,012.9	8,947.9	9,022.1	8,948.1	34.7	33.8	90.56	289.4	-817.0	143.3	75.0	68.27	2.099	
9,100.0	9,034.2	9,108.8	9,034.8	35.0	34.0	96.01	288.4	-815.5	143.8	75.0	68.74	2.092 SF	
9,200.0	9,133.2	9,209.5	9,135.4	35.4	34.3	102.14	286.7	-814.3	145.0	75.8	69.22	2.095	
9,300.0	9,232.3	9,310.4	9,236.3	35.8	34.7	108.16	283.8	-814.0	146.5	76.9	69.63	2.104	
9,400.0	9,331.3	9,409.8	9,335.6	36.3	35.0	113.81	280.4	-814.6	148.6	78.6	69.99	2.123	
9,500.0	9,430.4	9,503.7	9,429.5	36.7	35.3	118.31	279.4	-815.2	153.5	83.2	70.28	2.184	
9,600.0	9,529.5	9,601.8	9,527.6	37.1	35.6	122.03	281.1	-815.3	161.3	90.6	70.69	2.282	
9,700.0	9,628.5	9,700.1	9,625.8	37.5	35.9	125.52	282.8	-814.8	170.4	99.2	71.11	2.396	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #222H - Wellbore #1 - Actual Survey

Offset Site Error: 0.0 usft

Survey Program: 29-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,800.0	9,727.6	9,796.6	9,722.3	37.9	36.2	128.67	284.7	-813.4	181.0	109.5	71.48	2.532	
9,900.0	9,826.6	9,896.0	9,821.7	38.3	36.6	131.50	287.1	-811.5	192.6	120.6	71.99	2.675	
10,000.0	9,925.7	9,996.0	9,921.7	38.7	36.9	134.07	289.1	-810.0	204.1	131.6	72.53	2.814	
10,100.0	10,024.8	10,095.3	10,021.0	39.2	37.2	136.41	290.8	-808.5	215.9	142.8	73.07	2.954	
10,200.0	10,123.8	10,196.6	10,122.2	39.6	37.5	138.67	291.8	-807.6	227.2	153.5	73.67	3.083	
10,300.0	10,222.9	10,296.4	10,222.0	40.0	37.8	140.86	292.0	-807.2	238.1	163.8	74.24	3.207	
10,400.0	10,322.0	10,395.0	10,320.6	40.4	38.2	142.78	292.3	-806.8	249.3	174.5	74.79	3.333	
10,500.0	10,421.0	10,494.0	10,419.6	40.8	38.5	144.49	292.9	-806.4	260.9	185.6	75.38	3.462	
10,600.0	10,520.1	10,593.7	10,519.4	41.2	38.8	146.09	293.3	-806.1	272.6	196.6	76.00	3.587	
10,700.0	10,619.1	10,693.3	10,619.0	41.6	39.1	147.61	293.4	-805.9	284.2	207.6	76.62	3.710	
10,800.0	10,718.2	10,792.1	10,717.8	42.1	39.5	149.04	293.3	-805.9	296.0	218.7	77.23	3.832	
10,900.0	10,817.3	10,891.0	10,816.6	42.5	39.8	150.45	292.8	-805.6	308.0	230.2	77.85	3.957	
11,000.0	10,916.3	10,990.8	10,916.4	42.9	40.1	151.85	291.8	-805.3	320.1	241.6	78.49	4.079	
11,100.0	11,015.4	11,090.4	11,016.0	43.3	40.4	153.17	290.6	-805.4	332.1	253.0	79.13	4.197	
11,200.0	11,114.5	11,189.7	11,115.3	43.7	40.8	154.43	289.2	-805.5	344.2	264.4	79.78	4.315	
11,229.9	11,144.0	11,219.2	11,144.8	43.8	40.9	154.80	288.7	-805.5	347.8	267.9	79.97	4.350	
11,300.0	11,213.6	11,288.7	11,214.2	44.1	41.1	155.66	287.5	-805.6	356.0	275.6	80.42	4.427	
11,400.0	11,312.9	11,387.5	11,313.0	44.5	41.4	156.71	285.8	-805.7	366.5	285.4	81.07	4.521	
11,500.0	11,412.4	11,486.5	11,412.0	44.9	41.7	157.79	282.8	-805.7	375.6	293.9	81.71	4.597	
11,600.0	11,512.1	11,582.4	11,507.6	45.3	42.0	159.29	275.9	-805.5	383.5	301.3	82.26	4.662	
11,700.0	11,611.9	11,666.5	11,588.9	45.7	42.3	162.65	255.1	-804.1	392.7	310.4	82.37	4.768	
11,800.0	11,711.8	11,741.6	11,657.8	46.0	42.4	167.01	225.4	-801.4	406.6	324.6	81.92	4.963	
11,900.0	11,811.7	11,811.6	11,718.8	46.4	42.6	171.67	191.4	-797.4	426.8	345.9	80.92	5.274	
12,000.0	11,911.7	11,869.6	11,767.0	46.7	42.7	175.73	159.3	-793.0	454.5	375.5	78.99	5.754	
12,015.3	11,927.0	11,877.4	11,773.2	46.7	42.7	108.56	154.7	-792.3	459.5	380.9	78.60	5.846	
12,050.0	11,961.7	11,894.9	11,786.9	46.8	42.7	-74.11	144.0	-790.5	471.5	393.8	77.67	6.070	
12,100.0	12,011.4	11,930.0	11,813.4	47.0	42.8	-70.16	121.3	-786.5	490.0	413.2	76.86	6.376	
12,150.0	12,060.5	11,947.4	11,826.0	47.1	42.8	-67.39	109.6	-784.3	509.1	434.2	74.96	6.792	
12,200.0	12,108.5	11,976.4	11,846.5	47.3	42.8	-64.29	89.5	-780.4	528.6	454.8	73.76	7.166	
12,250.0	12,155.2	12,005.5	11,866.4	47.4	42.8	-61.52	68.6	-776.1	547.9	475.3	72.60	7.547	
12,300.0	12,200.1	12,024.0	11,878.7	47.5	42.8	-59.28	55.0	-773.3	567.0	496.2	70.85	8.003	
12,350.0	12,243.0	12,056.7	11,899.1	47.6	42.9	-57.00	30.0	-768.0	585.5	515.5	70.02	8.362	
12,400.0	12,283.5	12,075.1	11,909.7	47.7	42.9	-55.14	15.3	-765.0	603.8	535.4	68.44	8.823	
12,450.0	12,321.2	12,103.7	11,924.8	47.8	42.9	-53.36	-8.5	-760.3	621.5	554.0	67.53	9.203	
12,500.0	12,355.9	12,129.6	11,937.2	47.9	42.9	-51.81	-30.8	-755.9	638.5	571.9	66.60	9.587	
12,550.0	12,387.4	12,159.8	11,950.6	47.9	42.9	-50.52	-57.3	-750.8	654.4	588.4	66.02	9.911	
12,600.0	12,415.4	12,190.0	11,963.1	48.0	42.9	-49.49	-84.4	-745.5	668.9	603.3	65.60	10.196	
12,650.0	12,439.6	12,213.0	11,971.9	48.1	42.9	-48.64	-105.2	-741.5	682.0	616.9	65.08	10.479	
12,700.0	12,460.0	12,249.8	11,984.7	48.1	42.9	-48.17	-139.1	-734.8	693.5	628.2	65.25	10.628	
12,750.0	12,476.3	12,279.5	11,994.0	48.2	42.9	-47.84	-166.7	-729.4	703.6	638.3	65.35	10.768	
12,800.0	12,488.4	12,307.0	12,001.7	48.3	42.8	-47.68	-192.6	-724.2	712.3	646.7	65.58	10.862	
12,850.0	12,496.2	12,333.8	12,008.3	48.3	42.8	-47.69	-218.1	-718.9	719.6	653.6	66.00	10.903	
12,900.0	12,499.8	12,358.7	12,013.5	48.4	42.8	-47.83	-241.8	-713.8	725.8	659.2	66.60	10.899	
12,915.3	12,500.0	12,366.3	12,014.9	48.5	42.8	-47.90	-249.1	-712.2	727.5	660.7	66.82	10.887	
13,000.0	12,500.0	12,412.9	12,021.8	48.6	42.8	-49.14	-294.1	-702.0	738.0	669.9	68.13	10.832	
13,100.0	12,500.0	12,500.6	12,028.1	48.9	43.1	-50.72	-379.9	-685.1	751.5	681.9	69.61	10.796	
13,182.7	12,500.0	12,610.3	12,029.8	49.1	43.5	-51.65	-488.6	-670.9	759.8	689.2	70.60	10.762	
13,200.0	12,500.0	12,631.9	12,029.7	49.2	43.6	-51.74	-510.1	-668.9	760.9	690.2	70.76	10.753	
13,300.0	12,500.0	12,737.0	12,028.3	49.5	44.1	-51.96	-615.0	-662.0	766.6	695.1	71.53	10.718	
13,400.0	12,500.0	12,836.7	12,025.9	50.0	44.6	-52.08	-714.5	-655.7	772.7	700.4	72.31	10.687	
13,500.0	12,500.0	12,933.9	12,023.5	50.4	45.2	-52.18	-811.5	-650.0	778.6	705.4	73.15	10.644	
13,600.0	12,500.0	13,026.4	12,020.6	50.9	45.7	-52.26	-903.7	-644.0	785.3	711.2	74.03	10.607	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #222H - Wellbore #1 - Actual Survey

Offset Site Error: 0.0 usft

Survey Program: 29-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,700.0	12,500.0	13,166.2	12,015.7	51.5	46.7	-52.21	-1,043.2	-638.2	790.4	715.1	75.38	10.487	
13,800.0	12,500.0	13,261.9	12,012.0	52.1	47.4	-51.99	-1,138.9	-637.9	792.8	716.5	76.23	10.399	
13,900.0	12,500.0	13,354.7	12,007.5	52.8	48.1	-51.75	-1,231.5	-637.2	796.0	718.9	77.10	10.324	
14,000.0	12,500.0	13,468.3	12,004.0	53.5	49.0	-51.63	-1,345.1	-635.0	799.2	720.8	78.44	10.188	
14,100.0	12,500.0	13,576.0	12,003.7	54.2	49.9	-51.64	-1,452.8	-633.9	799.8	719.9	79.91	10.009	
14,200.0	12,500.0	13,685.2	12,001.7	55.0	50.9	-51.51	-1,561.9	-633.9	800.6	719.2	81.36	9.840	
14,300.0	12,500.0	13,784.3	11,999.5	55.9	51.8	-51.29	-1,661.0	-635.7	800.2	717.6	82.61	9.686	
14,316.9	12,500.0	13,800.5	11,999.5	56.0	52.0	-51.28	-1,677.2	-635.7	800.2	717.3	82.85	9.658	
14,400.0	12,500.0	13,877.2	11,998.9	56.7	52.7	-51.25	-1,753.9	-635.5	800.5	716.5	83.98	9.531	
14,500.0	12,500.0	13,999.0	11,998.5	57.6	53.9	-51.18	-1,875.7	-636.0	800.0	714.1	85.95	9.308	
14,600.0	12,500.0	14,088.7	11,998.9	58.6	54.8	-51.16	-1,965.3	-636.5	798.9	711.6	87.39	9.143	
14,646.6	12,500.0	14,129.8	11,998.9	59.0	55.3	-51.15	-2,006.5	-636.5	798.8	710.7	88.06	9.071	
14,700.0	12,500.0	14,177.7	11,998.7	59.5	55.8	-51.14	-2,054.4	-636.2	799.0	710.1	88.85	8.993	
14,800.0	12,500.0	14,274.8	11,997.7	60.5	56.8	-51.10	-2,151.5	-635.6	799.8	709.3	90.50	8.838	
14,900.0	12,500.0	14,371.3	11,996.9	61.5	57.9	-51.10	-2,247.9	-634.1	801.1	708.9	92.23	8.686	
15,000.0	12,500.0	14,467.3	11,996.4	62.6	59.0	-51.13	-2,343.9	-632.3	802.7	708.6	94.02	8.537	
15,100.0	12,500.0	14,546.6	11,993.6	63.7	59.9	-51.03	-2,423.2	-630.9	805.9	710.6	95.30	8.457	
15,200.0	12,500.0	14,635.9	11,987.9	64.8	61.0	-50.77	-2,512.3	-629.2	811.1	714.4	96.69	8.389	
15,300.0	12,500.0	14,753.8	11,984.8	65.9	62.4	-50.80	-2,629.9	-624.3	815.6	716.5	99.13	8.228	
15,400.0	12,500.0	14,856.0	11,986.4	67.0	63.6	-51.18	-2,732.0	-617.3	819.6	718.0	101.61	8.067	
15,500.0	12,500.0	14,975.4	11,984.7	68.2	65.1	-51.13	-2,851.3	-615.6	821.2	717.1	104.10	7.888	
15,600.0	12,500.0	15,069.3	11,981.4	69.4	66.3	-50.90	-2,945.1	-616.4	822.4	716.7	105.76	7.776	
15,700.0	12,500.0	15,161.6	11,977.0	70.6	67.5	-50.63	-3,037.3	-616.8	824.8	717.4	107.34	7.683	
15,800.0	12,500.0	15,278.1	11,973.1	71.8	69.0	-50.43	-3,153.8	-616.1	827.1	717.4	109.68	7.541	
15,900.0	12,500.0	15,377.2	11,971.6	73.0	70.3	-50.32	-3,252.9	-616.3	827.6	715.9	111.67	7.411	
16,000.0	12,500.0	15,467.0	11,970.1	74.3	71.4	-50.26	-3,342.6	-615.5	829.0	715.5	113.48	7.305	
16,100.0	12,500.0	15,594.7	11,968.5	75.6	73.1	-50.18	-3,470.3	-614.9	829.9	713.5	116.33	7.134	
16,200.0	12,500.0	15,686.8	11,969.0	76.9	74.4	-50.19	-3,562.4	-614.8	829.3	711.0	118.36	7.007	
16,230.8	12,500.0	15,715.0	11,969.2	77.3	74.8	-50.21	-3,590.6	-614.5	829.3	710.3	119.00	6.969	
16,300.0	12,500.0	15,782.6	11,969.4	78.2	75.7	-50.23	-3,658.2	-613.8	829.5	709.0	120.54	6.882	
16,400.0	12,500.0	15,899.4	11,968.8	79.5	77.3	-50.09	-3,775.0	-615.8	828.1	705.1	123.07	6.729	
16,500.0	12,500.0	15,996.4	11,969.9	80.8	78.6	-50.10	-3,871.9	-616.5	826.5	701.3	125.28	6.598	
16,600.0	12,500.0	16,091.1	11,965.7	82.1	79.9	-49.65	-3,966.4	-621.2	825.3	698.5	126.80	6.508	
16,660.7	12,500.0	16,145.4	11,962.0	83.0	80.7	-49.30	-4,020.5	-624.4	825.0	697.5	127.53	6.469	
16,700.0	12,500.0	16,179.4	11,959.7	83.5	81.2	-49.09	-4,054.4	-626.1	825.1	697.2	127.98	6.447	
16,800.0	12,500.0	16,265.9	11,954.4	84.8	82.4	-48.69	-4,140.6	-628.6	826.6	697.3	129.29	6.393	
16,900.0	12,500.0	16,354.7	11,950.6	86.2	83.6	-48.51	-4,229.4	-627.8	829.8	698.8	130.99	6.334	
17,000.0	12,500.0	16,459.8	11,949.7	87.6	85.1	-48.66	-4,334.3	-623.1	833.4	699.7	133.70	6.233	
17,100.0	12,500.0	16,560.2	11,955.3	89.0	86.6	-49.31	-4,434.2	-614.5	835.9	698.9	137.02	6.101	
17,200.0	12,500.0	16,655.9	11,958.9	90.4	88.0	-49.85	-4,529.4	-606.2	839.7	699.7	140.05	5.996	
17,300.0	12,500.0	16,763.6	11,959.3	91.8	89.5	-50.06	-4,637.0	-601.4	842.6	699.5	143.00	5.892	
17,400.0	12,500.0	16,880.0	11,956.6	93.2	91.2	-49.96	-4,753.4	-600.0	844.7	698.9	145.77	5.795	
17,500.0	12,500.0	16,977.8	11,956.7	94.6	92.7	-50.01	-4,851.2	-598.7	845.3	697.1	148.19	5.704	
17,600.0	12,500.0	17,075.1	11,954.0	96.0	94.1	-49.84	-4,948.4	-599.0	846.5	696.3	150.26	5.634	
17,700.0	12,500.0	17,193.8	11,950.1	97.5	95.8	-49.51	-5,067.1	-601.2	846.9	694.2	152.72	5.545	
17,800.0	12,500.0	17,290.4	11,947.8	98.9	97.3	-49.26	-5,163.6	-603.9	846.0	691.4	154.64	5.471	
17,816.8	12,500.0	17,303.3	11,947.4	99.2	97.5	-49.22	-5,176.5	-604.2	846.0	691.1	154.87	5.463	
17,900.0	12,500.0	17,367.6	11,944.3	100.4	98.4	-48.99	-5,240.7	-605.6	847.0	691.1	155.91	5.432	
18,000.0	12,500.0	17,471.2	11,939.5	101.8	99.9	-48.67	-5,344.1	-606.7	848.9	691.0	157.93	5.375	
18,100.0	12,500.0	17,562.2	11,935.5	103.3	101.3	-48.44	-5,435.1	-606.9	851.3	691.6	159.68	5.331	
18,200.0	12,500.0	17,672.0	11,931.9	104.7	103.0	-48.27	-5,544.8	-606.3	853.6	691.4	162.13	5.265	
18,300.0	12,500.0	17,770.6	11,932.0	106.2	104.4	-48.37	-5,643.3	-603.7	855.1	690.4	164.72	5.191	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #222H - Wellbore #1 - Actual Survey

Offset Site Error: 0.0 usft

Survey Program: 29-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,400.0	12,500.0	17,854.6	11,930.7	107.7	105.7	-48.40	-5,727.3	-601.2	858.1	691.4	166.68	5.148	
18,500.0	12,500.0	17,960.3	11,928.2	109.2	107.3	-48.42	-5,832.9	-597.5	862.0	692.6	169.39	5.089	
18,600.0	12,500.0	18,114.2	11,929.9	110.7	109.7	-48.55	-5,986.8	-595.8	861.7	688.0	173.70	4.961	
18,700.0	12,500.0	18,191.7	11,929.9	112.2	110.8	-48.46	-6,064.2	-597.7	859.5	684.2	175.39	4.901	
18,716.3	12,500.0	18,203.4	11,929.6	112.4	111.0	-48.42	-6,076.0	-598.0	859.5	683.9	175.59	4.895	
18,800.0	12,500.0	18,281.6	11,925.9	113.7	112.2	-48.12	-6,154.0	-600.3	860.0	683.1	176.92	4.861	
18,900.0	12,500.0	18,375.5	11,921.5	115.2	113.6	-47.78	-6,247.7	-602.7	860.9	682.4	178.53	4.822	
19,000.0	12,500.0	18,497.1	11,917.1	116.7	115.5	-47.43	-6,369.2	-605.1	861.7	680.7	180.97	4.762	
19,100.0	12,500.0	18,594.0	11,916.5	118.2	117.0	-47.31	-6,466.1	-606.6	860.7	677.6	183.12	4.700	
19,200.0	12,500.0	18,695.1	11,915.9	119.7	118.5	-47.22	-6,567.2	-607.7	859.9	674.5	185.43	4.637	
19,300.0	12,500.0	18,785.0	11,916.1	121.2	119.9	-47.19	-6,657.1	-608.2	859.1	671.6	187.55	4.581	
19,314.1	12,500.0	18,801.7	11,916.2	121.4	120.2	-47.19	-6,673.8	-608.1	859.1	671.1	187.99	4.570	
19,400.0	12,500.0	18,862.9	11,916.1	122.7	121.1	-47.24	-6,735.0	-606.7	860.3	670.9	189.41	4.542	
19,500.0	12,500.0	18,955.5	11,915.2	124.2	122.5	-47.36	-6,827.5	-602.6	863.9	672.0	191.90	4.502	
19,600.0	12,500.0	19,055.5	11,914.5	125.8	124.1	-47.52	-6,927.4	-597.8	867.6	672.9	194.73	4.455	
19,700.0	12,500.0	19,148.2	11,913.6	127.3	125.5	-47.67	-7,020.0	-593.0	871.7	674.4	197.30	4.418	
19,800.0	12,500.0	19,269.2	11,911.7	128.8	127.4	-47.76	-7,140.9	-588.5	875.3	674.5	200.75	4.360	
19,900.0	12,500.0	19,357.2	11,908.4	130.4	128.8	-47.64	-7,228.7	-587.2	878.4	675.9	202.58	4.336	
20,000.0	12,500.0	19,471.8	11,906.9	131.9	130.6	-47.68	-7,343.3	-584.2	880.9	675.2	205.70	4.283	
20,100.0	12,500.0	19,580.1	11,905.6	133.4	132.3	-47.66	-7,451.6	-582.6	882.6	674.1	208.46	4.234	
20,200.0	12,500.0	19,697.2	11,906.6	135.0	134.1	-47.74	-7,568.7	-581.4	882.4	670.7	211.68	4.169	
20,300.0	12,500.0	19,793.5	11,902.8	136.5	135.6	-47.34	-7,664.8	-585.8	881.3	668.2	213.18	4.134	
20,400.0	12,500.0	19,902.2	11,897.0	138.1	137.3	-46.78	-7,773.1	-591.9	880.6	666.0	214.60	4.104	
20,500.0	12,500.0	19,998.4	11,895.6	139.6	138.8	-46.57	-7,869.3	-594.7	879.2	662.7	216.50	4.061	
20,600.0	12,500.0	20,092.4	11,893.6	141.2	140.3	-46.35	-7,963.2	-597.2	878.4	660.1	218.30	4.024	
20,700.0	12,500.0	20,216.5	11,892.0	142.7	142.2	-46.05	-8,087.2	-601.6	876.3	655.6	220.69	3.971	
20,800.0	12,500.0	20,296.9	11,893.0	144.3	143.5	-46.03	-8,167.6	-602.6	874.3	651.7	222.65	3.927	
20,900.0	12,500.0	20,395.8	11,892.9	145.9	145.0	-45.98	-8,266.4	-603.3	873.5	648.6	224.99	3.883	
21,000.0	12,500.0	20,498.1	11,894.8	147.4	146.6	-46.07	-8,368.7	-602.6	872.5	644.7	227.80	3.830	
21,060.7	12,500.0	20,549.8	11,895.6	148.4	147.4	-46.13	-8,420.5	-602.0	872.1	642.9	229.21	3.805	
21,100.0	12,500.0	20,586.1	11,895.4	149.0	148.0	-46.12	-8,456.7	-601.8	872.3	642.2	230.08	3.791	
21,200.0	12,500.0	20,700.0	11,894.9	150.5	149.8	-46.02	-8,570.6	-603.0	871.5	638.7	232.73	3.744	
21,300.0	12,500.0	20,796.6	11,894.8	152.1	151.3	-45.96	-8,667.2	-603.9	870.5	635.5	234.99	3.704	
21,400.0	12,500.0	20,901.6	11,895.3	153.7	153.0	-45.93	-8,772.2	-604.5	869.5	631.9	237.57	3.660	
21,500.0	12,500.0	21,015.6	11,898.1	155.3	154.8	-46.03	-8,886.1	-604.7	867.3	626.6	240.71	3.603	
21,600.0	12,500.0	21,113.0	11,899.4	156.8	156.3	-45.95	-8,983.6	-607.4	864.1	621.2	242.95	3.557	
21,700.0	12,500.0	21,189.5	11,899.7	158.4	157.6	-45.89	-9,060.0	-608.6	862.5	617.8	244.67	3.525	
21,700.8	12,500.0	21,190.1	11,899.7	158.4	157.6	-45.89	-9,060.6	-608.6	862.5	617.8	244.68	3.525	
21,800.0	12,500.0	21,273.7	11,900.2	160.0	158.9	-46.02	-9,144.2	-606.0	863.9	616.9	247.02	3.497	
21,900.0	12,500.0	21,390.6	11,899.9	161.6	160.8	-46.08	-9,261.1	-604.0	865.0	614.8	250.25	3.457	
22,000.0	12,500.0	21,494.2	11,901.9	163.1	162.4	-46.21	-9,364.6	-602.7	864.3	611.1	253.26	3.413	
22,100.0	12,500.0	21,595.7	11,905.8	164.7	164.0	-46.53	-9,466.0	-599.3	863.8	607.0	256.75	3.364	
22,200.0	12,500.0	21,692.8	11,910.6	166.3	165.6	-46.93	-9,562.9	-595.2	863.2	602.8	260.35	3.315	
22,300.0	12,500.0	21,790.2	11,915.8	167.9	167.2	-47.39	-9,660.0	-590.2	863.0	598.8	264.13	3.267	
22,310.5	12,500.0	21,800.4	11,916.3	168.0	167.3	-47.44	-9,670.2	-589.6	863.0	598.4	264.53	3.262	
22,400.0	12,500.0	21,881.0	11,919.7	169.5	168.6	-47.77	-9,750.6	-585.6	863.5	596.0	267.48	3.228	
22,500.0	12,500.0	21,976.6	11,922.7	171.0	170.2	-48.11	-9,846.0	-580.8	864.8	593.9	270.90	3.192	
22,600.0	12,500.0	22,069.0	11,924.7	172.6	171.6	-48.40	-9,938.3	-576.1	866.8	592.8	274.04	3.163	
22,700.0	12,500.0	22,161.1	11,925.1	174.2	173.1	-48.59	-10,030.3	-571.8	869.7	592.8	276.89	3.141	
22,800.0	12,500.0	22,252.8	11,926.1	175.8	174.6	-48.89	-10,121.7	-565.8	873.6	593.5	280.02	3.120	
22,900.0	12,500.0	22,349.7	11,928.1	177.4	176.2	-49.31	-10,218.3	-557.8	878.1	594.4	283.75	3.095	
23,000.0	12,500.0	22,433.7	11,928.0	179.0	177.5	-49.56	-10,302.1	-551.5	883.6	597.3	286.34	3.086	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #222H - Wellbore #1 - Actual Survey

Offset Site Error: 0.0 usft

Survey Program: 29-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
23,100.0	12,500.0	22,529.7	11,924.4	180.6	179.1	-49.62	-10,397.8	-545.3	890.6	601.6	288.99	3.082	
23,200.0	12,500.0	22,662.8	11,919.6	182.2	181.2	-49.60	-10,530.8	-539.7	895.9	602.8	293.08	3.057	
23,300.0	12,500.0	22,786.0	11,916.6	183.8	183.2	-49.48	-10,653.9	-538.4	898.0	601.8	296.21	3.032	
23,400.0	12,500.0	22,898.8	11,916.1	185.4	185.0	-49.41	-10,766.7	-539.0	897.5	598.5	299.01	3.001	
23,500.0	12,500.0	22,994.3	11,916.3	187.0	186.5	-49.39	-10,862.2	-539.2	896.8	595.4	301.47	2.975	
23,555.6	12,500.0	23,047.2	11,916.3	187.9	187.4	-49.39	-10,915.1	-539.1	896.8	593.9	302.85	2.961	
23,600.0	12,500.0	23,090.5	11,916.3	188.6	188.1	-49.39	-10,958.4	-538.8	896.8	592.8	304.00	2.950	
23,700.0	12,500.0	23,182.7	11,915.7	190.2	189.6	-49.37	-11,050.5	-538.4	897.3	591.0	306.31	2.929	
23,800.0	12,500.0	23,279.9	11,913.7	191.8	191.1	-49.27	-11,147.7	-538.0	898.6	590.0	308.53	2.912	
23,900.0	12,500.0	23,372.7	11,912.1	193.4	192.6	-49.21	-11,240.5	-537.1	900.1	589.4	310.74	2.897	
24,000.0	12,500.0	23,470.3	11,908.4	195.0	194.2	-49.03	-11,338.0	-536.8	902.5	589.8	312.71	2.886	
24,100.0	12,500.0	23,615.8	11,906.5	196.6	196.5	-48.87	-11,483.5	-537.9	902.6	586.4	316.17	2.855	
24,200.0	12,500.0	23,719.5	11,910.0	198.2	198.2	-48.98	-11,587.1	-538.7	899.4	580.1	319.27	2.817	
24,300.0	12,500.0	23,812.4	11,911.4	199.8	199.7	-48.97	-11,679.9	-540.2	896.8	575.1	321.69	2.788	
24,400.0	12,500.0	23,909.1	11,911.6	201.4	201.2	-48.87	-11,776.6	-542.4	894.7	570.8	323.91	2.762	
24,500.0	12,500.0	24,006.5	11,910.7	203.0	202.8	-48.70	-11,874.0	-544.9	893.0	567.1	325.93	2.740	
24,600.0	12,500.0	24,105.1	11,911.5	204.6	204.4	-48.67	-11,972.6	-546.0	891.3	562.9	328.42	2.714	
24,700.0	12,500.0	24,196.7	11,912.9	206.2	205.9	-48.74	-12,064.1	-545.6	890.3	559.2	331.06	2.689	
24,800.0	12,500.0	24,295.4	11,912.5	207.8	207.5	-48.70	-12,162.8	-545.7	890.2	556.6	333.51	2.669	
24,887.2	12,500.0	24,388.1	11,915.5	209.2	209.0	-48.91	-12,255.6	-543.7	889.4	552.7	336.69	2.642	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #226H - Wellbore #1 - Blm Plan #1 — **Offset Site Error:** 0.0 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.36	-0.2	-30.0	30.0				
100.0	100.0	100.0	100.0	0.1	0.1	-90.36	-0.2	-30.0	30.0	29.7	0.26	117.043	
200.0	200.0	200.0	200.0	0.5	0.5	-90.36	-0.2	-30.0	30.0	29.0	0.97	30.824	
300.0	300.0	300.0	300.0	0.8	0.8	-90.36	-0.2	-30.0	30.0	28.3	1.69	17.749	
400.0	400.0	400.0	400.0	1.2	1.2	-90.36	-0.2	-30.0	30.0	27.6	2.41	12.463	
500.0	500.0	500.0	500.0	1.6	1.6	-90.36	-0.2	-30.0	30.0	26.9	3.12	9.603	
600.0	600.0	600.0	600.0	1.9	1.9	-90.36	-0.2	-30.0	30.0	26.2	3.84	7.810	
700.0	700.0	700.0	700.0	2.3	2.3	-90.36	-0.2	-30.0	30.0	25.4	4.56	6.582	
800.0	800.0	800.0	800.0	2.6	2.6	-90.36	-0.2	-30.0	30.0	24.7	5.27	5.687	
900.0	900.0	900.0	900.0	3.0	3.0	-90.36	-0.2	-30.0	30.0	24.0	5.99	5.007	
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	-90.36	-0.2	-30.0	30.0	23.3	6.71	4.472	
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	-90.36	-0.2	-30.0	30.0	22.6	7.43	4.040	
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	-90.36	-0.2	-30.0	30.0	21.9	8.14	3.684	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.36	-0.2	-30.0	30.0	21.1	8.86	3.386	
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	-90.36	-0.2	-30.0	30.0	20.4	9.58	3.133	
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	-90.36	-0.2	-30.0	30.0	19.7	10.29	2.914	
1,600.0	1,600.0	1,600.1	1,600.1	5.5	5.5	42.17	0.6	-29.7	29.1	18.1	11.00	2.643	
1,700.0	1,700.0	1,700.1	1,700.1	5.8	5.9	51.28	3.1	-28.9	26.7	15.0	11.68	2.286	
1,800.0	1,799.9	1,800.1	1,799.8	6.2	6.2	66.61	6.0	-27.8	24.4	12.1	12.38	1.974	
1,866.0	1,865.7	1,865.6	1,865.4	6.4	6.5	80.01	7.9	-27.2	23.8	11.0	12.83	1.856	CC
1,900.0	1,899.7	1,900.5	1,899.3	6.5	6.6	87.68	8.9	-26.8	24.0	10.9	13.08	1.837	ES, SF
2,000.0	1,999.4	2,001.1	1,998.7	6.8	6.9	110.26	11.8	-25.8	27.3	13.5	13.78	1.982	
2,100.0	2,098.9	2,101.9	2,097.9	7.2	7.3	128.41	14.7	-24.8	34.8	20.3	14.48	2.404	
2,200.0	2,198.3	2,197.1	2,196.9	7.5	7.6	140.83	17.6	-23.8	45.9	30.7	15.17	3.024	
2,300.0	2,297.4	2,304.1	2,295.6	7.9	8.0	149.10	20.5	-22.8	59.7	43.8	15.89	3.756	
2,313.7	2,311.0	2,309.4	2,309.1	8.0	8.0	150.00	20.9	-22.6	61.8	45.8	15.96	3.871	
2,400.0	2,396.4	2,405.5	2,394.1	8.3	8.4	154.60	23.4	-21.8	75.3	58.7	16.60	4.534	
2,500.0	2,495.4	2,507.0	2,492.6	8.7	8.8	158.21	26.3	-20.7	91.3	74.0	17.31	5.275	
2,600.0	2,594.4	2,608.4	2,591.1	9.0	9.1	160.74	29.1	-19.7	107.6	89.6	18.02	5.971	
2,700.0	2,693.4	2,709.8	2,689.6	9.4	9.5	162.60	32.0	-18.7	124.1	105.3	18.73	6.622	
2,800.0	2,792.4	2,788.7	2,788.2	9.8	9.8	164.03	34.9	-17.7	140.6	121.2	19.37	7.260	
2,900.0	2,891.4	2,887.3	2,886.7	10.2	10.1	165.15	37.8	-16.7	157.2	137.1	20.07	7.832	
3,009.7	3,000.0	3,004.5	2,994.8	10.6	10.5	166.14	40.9	-15.6	175.5	154.6	20.88	8.405	
3,100.0	3,089.4	3,084.5	3,083.8	11.0	10.8	160.66	43.5	-14.7	190.0	168.5	21.48	8.844	
3,200.0	3,188.6	3,183.3	3,182.6	11.4	11.2	153.95	46.4	-13.7	204.9	182.7	22.19	9.231	
3,300.0	3,287.8	3,282.3	3,281.5	11.8	11.5	146.69	49.3	-12.7	218.5	195.6	22.90	9.540	
3,400.0	3,387.1	3,381.3	3,380.4	12.2	11.9	139.15	52.2	-11.6	231.0	207.4	23.62	9.780	
3,500.0	3,486.4	3,480.4	3,479.5	12.5	12.3	131.75	55.1	-10.6	242.4	218.0	24.33	9.962	
3,600.0	3,585.6	3,579.5	3,578.6	12.9	12.6	124.92	58.0	-9.6	252.8	227.8	25.04	10.095	
3,700.0	3,684.8	3,678.6	3,677.6	13.3	13.0	119.00	60.9	-8.6	262.3	236.6	25.76	10.186	
3,762.2	3,746.4	3,740.2	3,739.2	13.5	13.2	115.85	62.7	-8.0	267.9	241.7	26.20	10.226	
3,800.0	3,783.9	3,777.6	3,776.6	13.7	13.3	116.71	63.8	-7.6	271.2	244.8	26.47	10.247	
3,900.0	3,882.9	3,876.7	3,875.6	14.1	13.7	118.88	66.7	-6.6	280.3	253.1	27.18	10.312	
4,000.0	3,982.0	3,975.7	3,974.6	14.4	14.0	120.91	69.6	-5.6	289.8	261.9	27.90	10.387	
4,100.0	4,081.1	4,074.7	4,073.6	14.8	14.4	122.81	72.5	-4.5	299.6	271.0	28.62	10.469	
4,200.0	4,180.1	4,173.8	4,172.6	15.2	14.8	124.59	75.4	-3.5	309.7	280.4	29.33	10.558	
4,300.0	4,279.2	4,272.8	4,271.5	15.6	15.1	126.26	78.3	-2.5	320.1	290.0	30.05	10.652	
4,400.0	4,378.2	4,371.9	4,370.5	16.0	15.5	127.82	81.2	-1.5	330.7	300.0	30.77	10.749	
4,500.0	4,477.3	4,470.9	4,469.5	16.4	15.8	129.29	84.1	-0.5	341.6	310.1	31.49	10.849	
4,600.0	4,576.4	4,569.9	4,568.5	16.8	16.2	130.66	87.0	0.5	352.7	320.5	32.21	10.951	
4,700.0	4,675.4	4,669.0	4,667.5	17.1	16.5	131.95	89.9	1.5	364.0	331.0	32.93	11.054	
4,800.0	4,774.5	4,768.0	4,766.5	17.5	16.9	133.17	92.8	2.5	375.4	341.8	33.65	11.157	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #226H - Wellbore #1 - Blm Plan #1

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.0	4,873.6	4,867.0	4,865.5	17.9	17.2	134.31	95.7	3.6	387.0	352.6	34.37	11.261	
5,000.0	4,972.6	4,966.1	4,964.5	18.3	17.6	135.38	98.6	4.6	398.8	363.7	35.09	11.365	
5,100.0	5,071.7	5,065.1	5,063.5	18.7	18.0	136.40	101.5	5.6	410.6	374.8	35.81	11.468	
5,200.0	5,170.7	5,164.1	5,162.4	19.1	18.3	137.35	104.4	6.6	422.6	386.1	36.53	11.570	
5,300.0	5,269.8	5,263.2	5,261.4	19.5	18.7	138.26	107.3	7.6	434.7	397.5	37.25	11.671	
5,400.0	5,368.9	5,362.2	5,360.4	19.9	19.0	139.11	110.2	8.6	446.9	409.0	37.97	11.770	
5,500.0	5,467.9	5,461.3	5,459.4	20.3	19.4	139.92	113.1	9.6	459.2	420.6	38.69	11.869	
5,600.0	5,567.0	5,560.3	5,558.4	20.7	19.7	140.69	115.9	10.7	471.6	432.2	39.42	11.965	
5,700.0	5,666.0	5,659.3	5,657.4	21.1	20.1	141.41	118.8	11.7	484.1	444.0	40.14	12.061	
5,800.0	5,765.1	5,758.4	5,756.4	21.5	20.5	142.11	121.7	12.7	496.6	455.8	40.86	12.154	
5,900.0	5,864.2	5,857.4	5,855.4	21.9	20.8	142.76	124.6	13.7	509.2	467.7	41.58	12.246	
6,000.0	5,963.2	5,956.4	5,954.4	22.3	21.2	143.39	127.5	14.7	521.9	479.6	42.31	12.337	
6,100.0	6,062.3	6,055.5	6,053.3	22.7	21.5	143.98	130.4	15.7	534.6	491.6	43.03	12.425	
6,200.0	6,161.4	6,154.5	6,152.3	23.1	21.9	144.55	133.3	16.7	547.4	503.7	43.75	12.512	
6,300.0	6,260.4	6,253.5	6,251.3	23.5	22.2	145.09	136.2	17.8	560.3	515.8	44.48	12.597	
6,400.0	6,359.5	6,352.6	6,350.3	23.9	22.6	145.61	139.1	18.8	573.1	527.9	45.20	12.681	
6,500.0	6,458.5	6,451.6	6,449.3	24.3	23.0	146.11	142.0	19.8	586.1	540.1	45.92	12.762	
6,600.0	6,557.6	6,550.7	6,548.3	24.8	23.3	146.58	144.9	20.8	599.0	552.4	46.65	12.842	
6,700.0	6,656.7	6,649.7	6,647.3	25.2	23.7	147.03	147.8	21.8	612.0	564.7	47.37	12.921	
6,800.0	6,755.7	6,748.7	6,746.3	25.6	24.0	147.47	150.7	22.8	625.1	577.0	48.09	12.997	
6,900.0	6,854.8	6,847.8	6,845.3	26.0	24.4	147.89	153.6	23.8	638.2	589.3	48.82	13.072	
7,000.0	6,953.9	6,946.8	6,944.2	26.4	24.7	148.29	156.5	24.9	651.3	601.7	49.54	13.146	
7,100.0	7,052.9	7,045.8	7,043.2	26.8	25.1	148.67	159.4	25.9	664.4	614.1	50.27	13.218	
7,200.0	7,152.0	7,144.9	7,142.2	27.2	25.5	149.04	162.3	26.9	677.6	626.6	50.99	13.288	
7,300.0	7,251.0	7,243.9	7,241.2	27.6	25.8	149.40	165.2	27.9	690.8	639.1	51.71	13.357	
7,400.0	7,350.1	7,342.9	7,340.2	28.0	26.2	149.74	168.1	28.9	704.0	651.5	52.44	13.425	
7,500.0	7,449.2	7,442.0	7,439.2	28.4	26.5	150.07	171.0	29.9	717.2	664.1	53.16	13.491	
7,600.0	7,548.2	7,541.0	7,538.2	28.8	26.9	150.39	173.9	30.9	730.5	676.6	53.89	13.556	
7,700.0	7,647.3	7,640.1	7,637.2	29.3	27.2	150.69	176.8	32.0	743.8	689.2	54.61	13.619	
7,800.0	7,746.3	7,739.1	7,736.2	29.7	27.6	150.99	179.7	33.0	757.1	701.7	55.34	13.681	
7,900.0	7,845.4	7,838.1	7,835.1	30.1	28.0	151.27	182.6	34.0	770.4	714.3	56.06	13.742	
8,000.0	7,944.5	7,937.2	7,934.1	30.5	28.3	151.55	185.5	35.0	783.8	727.0	56.79	13.802	
8,100.0	8,043.5	8,036.2	8,033.1	30.9	28.7	151.82	188.3	36.0	797.1	739.6	57.51	13.860	
8,200.0	8,142.6	8,135.2	8,132.1	31.3	29.0	152.07	191.2	37.0	810.5	752.3	58.24	13.917	
8,300.0	8,241.7	8,234.3	8,231.1	31.7	29.4	152.32	194.1	38.0	823.9	764.9	58.96	13.973	
8,400.0	8,340.7	8,333.3	8,330.1	32.1	29.7	152.56	197.0	39.0	837.3	777.6	59.69	14.028	
8,500.0	8,439.8	8,432.3	8,429.1	32.5	30.1	152.80	199.9	40.1	850.7	790.3	60.41	14.081	
8,600.0	8,538.8	8,531.4	8,528.1	33.0	30.5	153.03	202.8	41.1	864.1	803.0	61.14	14.134	
8,700.0	8,637.9	8,630.4	8,627.1	33.4	30.8	153.24	205.7	42.1	877.6	815.7	61.86	14.186	
8,800.0	8,737.0	8,729.5	8,726.0	33.8	31.2	153.46	208.6	43.1	891.1	828.5	62.59	14.236	
8,900.0	8,836.0	8,828.5	8,825.0	34.2	31.5	153.66	211.5	44.1	904.5	841.2	63.32	14.286	
9,000.0	8,935.1	8,927.5	8,924.0	34.6	31.9	153.86	214.4	45.1	918.0	854.0	64.04	14.335	
9,100.0	9,034.2	9,026.6	9,023.0	35.0	32.2	154.06	217.3	46.1	931.5	866.7	64.77	14.382	
9,200.0	9,133.2	9,125.6	9,122.0	35.4	32.6	154.25	220.2	47.2	945.0	879.5	65.49	14.429	
9,300.0	9,232.3	9,224.6	9,221.0	35.8	33.0	154.43	223.1	48.2	958.5	892.3	66.22	14.475	
9,400.0	9,331.3	9,323.7	9,320.0	36.3	33.3	154.61	226.0	49.2	972.0	905.1	66.94	14.520	
9,500.0	9,430.4	9,422.7	9,419.0	36.7	33.7	154.79	228.9	50.2	985.6	917.9	67.67	14.564	
9,600.0	9,529.5	9,521.7	9,518.0	37.1	34.0	154.95	231.8	51.2	999.1	930.7	68.40	14.608	
9,700.0	9,628.5	9,620.8	9,616.9	37.5	34.4	155.12	234.7	52.2	1,012.7	943.5	69.12	14.650	
9,800.0	9,727.6	9,719.8	9,715.9	37.9	34.7	155.28	237.6	53.2	1,026.2	956.4	69.85	14.692	
9,900.0	9,826.6	9,818.9	9,814.9	38.3	35.1	155.44	240.5	54.3	1,039.8	969.2	70.58	14.733	
10,000.0	9,925.7	9,917.9	9,913.9	38.7	35.5	155.59	243.4	55.3	1,053.4	982.1	71.30	14.773	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #226H - Wellbore #1 - Blm Plan #1

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.0	10,024.8	10,016.9	10,012.9	39.2	35.8	155.74	246.3	56.3	1,066.9	994.9	72.03	14.813	
10,200.0	10,123.8	10,116.0	10,111.9	39.6	36.2	155.88	249.2	57.3	1,080.5	1,007.8	72.76	14.852	
10,300.0	10,222.9	10,215.0	10,210.9	40.0	36.5	156.02	252.1	58.3	1,094.1	1,020.6	73.48	14.890	
10,400.0	10,322.0	10,314.0	10,309.9	40.4	36.9	156.16	255.0	59.3	1,107.7	1,033.5	74.21	14.927	
10,500.0	10,421.0	10,413.1	10,408.8	40.8	37.2	156.29	257.9	60.3	1,121.3	1,046.4	74.93	14.964	
10,600.0	10,520.1	10,512.1	10,507.8	41.2	37.6	156.42	260.7	61.4	1,134.9	1,059.3	75.66	15.000	
10,700.0	10,619.1	10,611.1	10,606.8	41.6	38.0	156.55	263.6	62.4	1,148.6	1,072.2	76.39	15.036	
10,800.0	10,718.2	10,710.2	10,705.8	42.1	38.3	156.68	266.5	63.4	1,162.2	1,085.1	77.12	15.071	
10,900.0	10,817.3	10,809.2	10,804.8	42.5	38.7	156.80	269.4	64.4	1,175.8	1,098.0	77.84	15.105	
11,000.0	10,916.3	10,908.3	10,903.8	42.9	39.0	156.92	272.3	65.4	1,189.4	1,110.9	78.57	15.139	
11,100.0	11,015.4	11,007.3	11,002.8	43.3	39.4	157.03	275.2	66.4	1,203.1	1,123.8	79.30	15.172	
11,200.0	11,114.5	11,106.3	11,101.8	43.7	39.7	157.15	278.1	67.4	1,216.7	1,136.7	80.02	15.205	
11,229.9	11,144.0	11,135.9	11,131.3	43.8	39.9	157.18	279.0	67.7	1,220.8	1,140.6	80.24	15.214	
11,300.0	11,213.6	11,205.4	11,200.8	44.1	40.1	157.29	281.0	68.5	1,230.0	1,149.2	80.75	15.232	
11,400.0	11,312.9	11,304.7	11,300.1	44.5	40.5	157.40	283.9	69.5	1,241.7	1,160.2	81.48	15.240	
11,500.0	11,412.4	11,404.2	11,399.5	44.9	40.8	157.48	286.8	70.5	1,251.8	1,169.6	82.20	15.229	
11,600.0	11,512.1	11,503.8	11,499.1	45.3	41.2	157.52	289.7	71.5	1,260.4	1,177.4	82.92	15.200	
11,700.0	11,611.9	11,603.6	11,598.8	45.7	41.5	157.53	292.7	72.5	1,267.3	1,183.6	83.64	15.151	
11,800.0	11,711.8	11,703.4	11,698.6	46.0	41.9	157.50	295.6	73.6	1,272.6	1,188.2	84.36	15.086	
11,900.0	11,811.7	11,803.4	11,798.5	46.4	42.3	157.43	298.5	74.6	1,276.3	1,191.2	85.07	15.002	
12,000.0	11,911.7	11,914.7	11,909.8	46.7	42.7	157.37	300.5	75.3	1,278.0	1,192.1	85.85	14.885	
12,015.3	11,927.0	11,931.9	11,927.0	46.7	42.7	89.64	300.5	75.3	1,278.0	1,192.0	85.97	14.865	
12,050.0	11,961.7	11,973.7	11,968.8	46.8	42.9	-95.45	299.0	75.2	1,278.0	1,191.8	86.24	14.820	
12,100.0	12,011.4	12,033.8	12,028.4	47.0	43.0	-95.39	291.5	74.7	1,278.0	1,191.5	86.59	14.760	
12,150.0	12,060.5	12,093.7	12,086.6	47.1	43.2	-95.28	277.9	73.7	1,278.1	1,191.2	86.92	14.705	
12,200.0	12,108.5	12,153.2	12,142.9	47.3	43.4	-95.12	258.4	72.3	1,278.1	1,190.9	87.22	14.654	
12,250.0	12,155.2	12,212.3	12,196.4	47.4	43.5	-94.92	233.4	70.6	1,278.2	1,190.7	87.50	14.609	
12,300.0	12,200.1	12,270.9	12,246.5	47.5	43.6	-94.68	203.4	68.5	1,278.4	1,190.6	87.75	14.568	
12,350.0	12,243.0	12,328.8	12,292.9	47.6	43.7	-94.40	168.8	66.1	1,278.5	1,190.5	87.99	14.530	
12,400.0	12,283.5	12,385.9	12,335.0	47.7	43.8	-94.08	130.3	63.4	1,278.8	1,190.5	88.22	14.495	
12,450.0	12,321.2	12,442.4	12,372.6	47.8	43.9	-93.73	88.3	60.4	1,279.0	1,190.6	88.44	14.462	
12,500.0	12,355.9	12,498.0	12,405.4	47.9	44.0	-93.36	43.6	57.3	1,279.4	1,190.7	88.65	14.431	
12,550.0	12,387.4	12,552.7	12,433.3	47.9	44.1	-92.95	-3.4	54.0	1,279.8	1,191.0	88.87	14.402	
12,600.0	12,415.4	12,606.7	12,456.3	48.0	44.2	-92.53	-52.1	50.6	1,280.3	1,191.3	89.07	14.374	
12,650.0	12,439.6	12,659.8	12,474.3	48.1	44.3	-92.09	-101.9	47.1	1,280.9	1,191.6	89.28	14.347	
12,700.0	12,460.0	12,712.0	12,487.5	48.1	44.4	-91.64	-152.3	43.6	1,281.6	1,192.1	89.49	14.322	
12,750.0	12,476.3	12,763.5	12,495.9	48.2	44.5	-91.18	-202.9	40.1	1,282.3	1,192.7	89.69	14.298	
12,800.0	12,488.4	12,814.1	12,499.7	48.3	44.6	-90.72	-253.3	36.6	1,283.2	1,193.3	89.89	14.275	
12,850.0	12,496.2	12,853.9	12,500.0	48.3	44.7	-90.34	-293.0	33.9	1,284.2	1,194.1	90.06	14.259	
12,900.0	12,499.8	12,888.3	12,500.0	48.4	44.8	-90.07	-327.4	31.9	1,285.8	1,195.6	90.22	14.252	
12,915.3	12,500.0	12,900.0	12,500.0	48.5	44.8	-90.00	-339.0	31.4	1,286.5	1,196.2	90.28	14.250	
13,000.0	12,500.0	12,957.3	12,500.0	48.6	44.9	-90.00	-396.2	29.3	1,289.7	1,199.1	90.60	14.234	
13,100.0	12,500.0	13,026.2	12,500.0	48.9	45.1	-90.00	-465.1	28.3	1,292.5	1,201.4	91.03	14.198	
13,182.7	12,500.0	13,103.4	12,500.0	49.1	45.4	-90.00	-535.6	28.7	1,293.7	1,202.2	91.53	14.134	
13,200.0	12,500.0	13,113.9	12,500.0	49.2	45.4	-90.00	-552.8	28.9	1,293.8	1,202.2	91.64	14.119	
13,300.0	12,500.0	13,213.9	12,500.0	49.5	45.8	-90.00	-652.8	29.6	1,294.1	1,201.7	92.42	14.003	
13,400.0	12,500.0	13,313.9	12,500.0	50.0	46.2	-90.00	-752.8	30.4	1,294.4	1,201.1	93.31	13.872	
13,500.0	12,500.0	13,413.9	12,500.0	50.4	46.7	-90.00	-852.8	31.1	1,294.7	1,200.4	94.31	13.728	
13,600.0	12,500.0	13,513.9	12,500.0	50.9	47.3	-90.00	-952.8	31.9	1,295.1	1,199.6	95.41	13.573	
13,700.0	12,500.0	13,613.9	12,500.0	51.5	47.9	-90.00	-1,052.8	32.6	1,295.4	1,198.8	96.62	13.407	
13,800.0	12,500.0	13,713.9	12,500.0	52.1	48.5	-90.00	-1,152.8	33.4	1,295.7	1,197.8	97.92	13.232	
13,900.0	12,500.0	13,813.9	12,500.0	52.8	49.2	-90.00	-1,252.8	34.1	1,296.0	1,196.7	99.31	13.050	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #226H - Wellbore #1 - Blm Plan #1 — **Offset Site Error:** 0.0 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.0	12,500.0	13,913.9	12,500.0	53.5	49.9	-90.00	-1,352.8	34.9	1,296.3	1,195.5	100.79	12.861	
14,100.0	12,500.0	14,013.9	12,500.0	54.2	50.7	-90.00	-1,452.8	35.6	1,296.6	1,194.3	102.36	12.668	
14,200.0	12,500.0	14,113.9	12,500.0	55.0	51.5	-90.00	-1,552.8	36.4	1,296.9	1,192.9	104.01	12.470	
14,300.0	12,500.0	14,213.9	12,500.0	55.9	52.4	-90.00	-1,652.8	37.1	1,297.3	1,191.5	105.73	12.269	
14,400.0	12,500.0	14,313.9	12,500.0	56.7	53.3	-90.00	-1,752.8	37.9	1,297.6	1,190.0	107.53	12.067	
14,500.0	12,500.0	14,413.9	12,500.0	57.6	54.2	-90.00	-1,852.8	38.6	1,297.9	1,188.5	109.40	11.864	
14,600.0	12,500.0	14,513.9	12,500.0	58.6	55.2	-90.00	-1,952.8	39.4	1,298.2	1,186.9	111.34	11.660	
14,700.0	12,500.0	14,613.9	12,500.0	59.5	56.2	-90.00	-2,052.8	40.1	1,298.5	1,185.2	113.33	11.457	
14,800.0	12,500.0	14,713.9	12,500.0	60.5	57.2	-90.00	-2,152.8	40.9	1,298.8	1,183.4	115.39	11.256	
14,900.0	12,500.0	14,813.9	12,500.0	61.5	58.3	-90.00	-2,252.8	41.6	1,299.2	1,181.6	117.51	11.056	
15,000.0	12,500.0	14,913.9	12,500.0	62.6	59.3	-90.00	-2,352.8	42.4	1,299.5	1,179.8	119.68	10.858	
15,100.0	12,500.0	15,013.9	12,500.0	63.7	60.4	-90.00	-2,452.8	43.1	1,299.8	1,177.9	121.90	10.663	
15,200.0	12,500.0	15,113.9	12,500.0	64.8	61.6	-90.00	-2,552.8	43.9	1,300.1	1,175.9	124.17	10.471	
15,300.0	12,500.0	15,213.9	12,500.0	65.9	62.7	-90.00	-2,652.8	44.6	1,300.4	1,173.9	126.48	10.282	
15,400.0	12,500.0	15,313.9	12,500.0	67.0	63.9	-90.00	-2,752.8	45.4	1,300.7	1,171.9	128.84	10.096	
15,500.0	12,500.0	15,413.9	12,500.0	68.2	65.1	-90.00	-2,852.8	46.1	1,301.0	1,169.8	131.23	9.914	
15,600.0	12,500.0	15,513.9	12,500.0	69.4	66.3	-90.00	-2,952.8	46.9	1,301.4	1,167.7	133.67	9.736	
15,700.0	12,500.0	15,613.9	12,500.0	70.6	67.6	-90.00	-3,052.8	47.6	1,301.7	1,165.5	136.14	9.561	
15,800.0	12,500.0	15,713.9	12,500.0	71.8	68.8	-90.00	-3,152.7	48.4	1,302.0	1,163.3	138.65	9.391	
15,900.0	12,500.0	15,813.9	12,500.0	73.0	70.1	-90.00	-3,252.7	49.1	1,302.3	1,161.1	141.19	9.224	
16,000.0	12,500.0	15,913.9	12,500.0	74.3	71.4	-90.00	-3,352.7	49.9	1,302.6	1,158.9	143.76	9.061	
16,100.0	12,500.0	16,013.9	12,500.0	75.6	72.7	-90.00	-3,452.7	50.6	1,302.9	1,156.6	146.36	8.902	
16,200.0	12,500.0	16,113.9	12,500.0	76.9	74.0	-90.00	-3,552.7	51.4	1,303.3	1,154.3	148.99	8.748	
16,300.0	12,500.0	16,213.9	12,500.0	78.2	75.3	-90.00	-3,652.7	52.1	1,303.6	1,151.9	151.64	8.596	
16,400.0	12,500.0	16,313.9	12,500.0	79.5	76.6	-90.00	-3,752.7	52.9	1,303.9	1,149.6	154.32	8.449	
16,500.0	12,500.0	16,413.9	12,500.0	80.8	78.0	-90.00	-3,852.7	53.6	1,304.2	1,147.2	157.02	8.306	
16,600.0	12,500.0	16,513.9	12,500.0	82.1	79.4	-90.00	-3,952.7	54.4	1,304.5	1,144.8	159.75	8.166	
16,700.0	12,500.0	16,613.9	12,500.0	83.5	80.7	-90.00	-4,052.7	55.1	1,304.8	1,142.3	162.49	8.030	
16,800.0	12,500.0	16,713.9	12,500.0	84.8	82.1	-90.00	-4,152.7	55.9	1,305.1	1,139.9	165.26	7.898	
16,900.0	12,500.0	16,813.9	12,500.0	86.2	83.5	-90.00	-4,252.7	56.6	1,305.5	1,137.4	168.05	7.768	
17,000.0	12,500.0	16,913.9	12,500.0	87.6	84.9	-90.00	-4,352.7	57.4	1,305.8	1,134.9	170.85	7.643	
17,100.0	12,500.0	17,013.9	12,500.0	89.0	86.3	-90.00	-4,452.7	58.1	1,306.1	1,132.4	173.67	7.520	
17,200.0	12,500.0	17,113.9	12,500.0	90.4	87.7	-90.00	-4,552.7	58.9	1,306.4	1,129.9	176.51	7.401	
17,300.0	12,500.0	17,213.9	12,500.0	91.8	89.2	-90.00	-4,652.7	59.6	1,306.7	1,127.4	179.36	7.285	
17,400.0	12,500.0	17,313.9	12,500.0	93.2	90.6	-90.00	-4,752.7	60.4	1,307.0	1,124.8	182.23	7.172	
17,500.0	12,500.0	17,413.9	12,500.0	94.6	92.0	-90.00	-4,852.7	61.1	1,307.4	1,122.2	185.12	7.062	
17,600.0	12,500.0	17,513.9	12,500.0	96.0	93.5	-90.00	-4,952.7	61.9	1,307.7	1,119.7	188.02	6.955	
17,700.0	12,500.0	17,613.9	12,500.0	97.5	94.9	-90.00	-5,052.7	62.6	1,308.0	1,117.1	190.93	6.851	
17,800.0	12,500.0	17,713.9	12,500.0	98.9	96.4	-90.00	-5,152.7	63.4	1,308.3	1,114.4	193.85	6.749	
17,900.0	12,500.0	17,813.9	12,500.0	100.4	97.9	-90.00	-5,252.7	64.1	1,308.6	1,111.8	196.78	6.650	
18,000.0	12,500.0	17,913.9	12,500.0	101.8	99.3	-90.00	-5,352.7	64.9	1,308.9	1,109.2	199.73	6.553	
18,100.0	12,500.0	18,013.9	12,500.0	103.3	100.8	-90.00	-5,452.7	65.6	1,309.2	1,106.6	202.69	6.459	
18,200.0	12,500.0	18,113.9	12,500.0	104.7	102.3	-90.00	-5,552.7	66.4	1,309.6	1,103.9	205.66	6.368	
18,300.0	12,500.0	18,213.9	12,500.0	106.2	103.8	-90.00	-5,652.7	67.1	1,309.9	1,101.2	208.64	6.278	
18,400.0	12,500.0	18,313.9	12,500.0	107.7	105.3	-90.00	-5,752.7	67.9	1,310.2	1,098.6	211.62	6.191	
18,500.0	12,500.0	18,413.9	12,500.0	109.2	106.8	-90.00	-5,852.7	68.6	1,310.5	1,095.9	214.62	6.106	
18,600.0	12,500.0	18,513.9	12,500.0	110.7	108.3	-90.00	-5,952.7	69.4	1,310.8	1,093.2	217.63	6.023	
18,700.0	12,500.0	18,613.9	12,500.0	112.2	109.8	-90.00	-6,052.7	70.1	1,311.1	1,090.5	220.64	5.942	
18,800.0	12,500.0	18,713.9	12,500.0	113.7	111.3	-90.00	-6,152.6	70.9	1,311.5	1,087.8	223.66	5.864	
18,900.0	12,500.0	18,813.9	12,500.0	115.2	112.8	-90.00	-6,252.6	71.6	1,311.8	1,085.1	226.69	5.787	
19,000.0	12,500.0	18,913.9	12,500.0	116.7	114.3	-90.00	-6,352.6	72.4	1,312.1	1,082.4	229.73	5.711	
19,100.0	12,500.0	19,013.9	12,500.0	118.2	115.8	-90.00	-6,452.6	73.1	1,312.4	1,079.6	232.77	5.638	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #226H - Wellbore #1 - Blm Plan #1

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,200.0	12,500.0	19,113.9	12,500.0	119.7	117.4	-90.00	-6,552.6	73.9	1,312.7	1,076.9	235.82	5.566	
19,300.0	12,500.0	19,213.9	12,500.0	121.2	118.9	-90.00	-6,652.6	74.6	1,313.0	1,074.1	238.88	5.497	
19,400.0	12,500.0	19,313.9	12,500.0	122.7	120.4	-90.00	-6,752.6	75.4	1,313.3	1,071.4	241.95	5.428	
19,500.0	12,500.0	19,413.9	12,500.0	124.2	122.0	-90.00	-6,852.6	76.1	1,313.7	1,068.6	245.02	5.361	
19,600.0	12,500.0	19,513.9	12,500.0	125.8	123.5	-90.00	-6,952.6	76.9	1,314.0	1,065.9	248.09	5.296	
19,700.0	12,500.0	19,613.9	12,500.0	127.3	125.0	-90.00	-7,052.6	77.6	1,314.3	1,063.1	251.18	5.233	
19,800.0	12,500.0	19,713.9	12,500.0	128.8	126.6	-90.00	-7,152.6	78.4	1,314.6	1,060.3	254.27	5.170	
19,900.0	12,500.0	19,813.9	12,500.0	130.4	128.1	-90.00	-7,252.6	79.1	1,314.9	1,057.6	257.36	5.109	
20,000.0	12,500.0	19,913.9	12,500.0	131.9	129.7	-90.00	-7,352.6	79.9	1,315.2	1,054.8	260.46	5.050	
20,100.0	12,500.0	20,013.9	12,500.0	133.4	131.2	-90.00	-7,452.6	80.6	1,315.6	1,052.0	263.56	4.991	
20,200.0	12,500.0	20,113.9	12,500.0	135.0	132.8	-90.00	-7,552.6	81.4	1,315.9	1,049.2	266.67	4.934	
20,300.0	12,500.0	20,213.8	12,500.0	136.5	134.3	-90.00	-7,652.6	82.1	1,316.2	1,046.4	269.78	4.879	
20,400.0	12,500.0	20,313.8	12,500.0	138.1	135.9	-90.00	-7,752.6	82.9	1,316.5	1,043.6	272.90	4.824	
20,500.0	12,500.0	20,413.8	12,500.0	139.6	137.4	-90.00	-7,852.6	83.6	1,316.8	1,040.8	276.02	4.771	
20,600.0	12,500.0	20,513.8	12,500.0	141.2	139.0	-90.00	-7,952.6	84.4	1,317.1	1,038.0	279.14	4.718	
20,700.0	12,500.0	20,613.8	12,500.0	142.7	140.6	-90.00	-8,052.6	85.1	1,317.4	1,035.2	282.27	4.667	
20,800.0	12,500.0	20,713.8	12,500.0	144.3	142.1	-90.00	-8,152.6	85.9	1,317.8	1,032.4	285.41	4.617	
20,900.0	12,500.0	20,813.8	12,500.0	145.9	143.7	-90.00	-8,252.6	86.6	1,318.1	1,029.5	288.54	4.568	
21,000.0	12,500.0	20,913.8	12,500.0	147.4	145.3	-90.00	-8,352.6	87.4	1,318.4	1,026.7	291.68	4.520	
21,100.0	12,500.0	21,013.8	12,500.0	149.0	146.8	-90.00	-8,452.6	88.1	1,318.7	1,023.9	294.83	4.473	
21,200.0	12,500.0	21,113.8	12,500.0	150.5	148.4	-90.00	-8,552.6	88.9	1,319.0	1,021.0	297.98	4.427	
21,300.0	12,500.0	21,213.8	12,500.0	152.1	150.0	-90.00	-8,652.6	89.6	1,319.3	1,018.2	301.13	4.381	
21,400.0	12,500.0	21,313.8	12,500.0	153.7	151.6	-90.00	-8,752.6	90.4	1,319.7	1,015.4	304.28	4.337	
21,500.0	12,500.0	21,413.8	12,500.0	155.3	153.1	-90.00	-8,852.6	91.1	1,320.0	1,012.5	307.44	4.293	
21,600.0	12,500.0	21,513.8	12,500.0	156.8	154.7	-90.00	-8,952.6	91.9	1,320.3	1,009.7	310.60	4.251	
21,700.0	12,500.0	21,613.8	12,500.0	158.4	156.3	-90.00	-9,052.6	92.6	1,320.6	1,006.8	313.76	4.209	
21,800.0	12,500.0	21,713.8	12,500.0	160.0	157.9	-90.00	-9,152.6	93.4	1,320.9	1,004.0	316.93	4.168	
21,900.0	12,500.0	21,813.8	12,500.0	161.6	159.5	-90.00	-9,252.5	94.1	1,321.2	1,001.1	320.10	4.128	
22,000.0	12,500.0	21,913.8	12,500.0	163.1	161.0	-90.00	-9,352.5	94.9	1,321.5	998.3	323.27	4.088	
22,100.0	12,500.0	22,013.8	12,500.0	164.7	162.6	-90.00	-9,452.5	95.6	1,321.9	995.4	326.44	4.049	
22,200.0	12,500.0	22,113.8	12,500.0	166.3	164.2	-90.00	-9,552.5	96.4	1,322.2	992.6	329.62	4.011	
22,300.0	12,500.0	22,213.8	12,500.0	167.9	165.8	-90.00	-9,652.5	97.1	1,322.5	989.7	332.80	3.974	
22,400.0	12,500.0	22,313.8	12,500.0	169.5	167.4	-90.00	-9,752.5	97.9	1,322.8	986.8	335.98	3.937	
22,500.0	12,500.0	22,413.8	12,500.0	171.0	169.0	-90.00	-9,852.5	98.6	1,323.1	984.0	339.16	3.901	
22,600.0	12,500.0	22,513.8	12,500.0	172.6	170.6	-90.00	-9,952.5	99.4	1,323.4	981.1	342.35	3.866	
22,700.0	12,500.0	22,613.8	12,500.0	174.2	172.2	-90.00	-10,052.5	100.1	1,323.8	978.2	345.53	3.831	
22,800.0	12,500.0	22,713.8	12,500.0	175.8	173.8	-90.00	-10,152.5	100.9	1,324.1	975.3	348.72	3.797	
22,900.0	12,500.0	22,813.8	12,500.0	177.4	175.4	-90.00	-10,252.5	101.6	1,324.4	972.5	351.91	3.763	
23,000.0	12,500.0	22,913.8	12,500.0	179.0	177.0	-90.00	-10,352.5	102.4	1,324.7	969.6	355.11	3.730	
23,100.0	12,500.0	23,013.8	12,500.0	180.6	178.5	-90.00	-10,452.5	103.1	1,325.0	966.7	358.30	3.698	
23,200.0	12,500.0	23,113.8	12,500.0	182.2	180.1	-90.00	-10,552.5	103.9	1,325.3	963.8	361.50	3.666	
23,300.0	12,500.0	23,213.8	12,500.0	183.8	181.7	-90.00	-10,652.5	104.6	1,325.6	960.9	364.70	3.635	
23,400.0	12,500.0	23,313.8	12,500.0	185.4	183.3	-90.00	-10,752.5	105.4	1,326.0	958.1	367.90	3.604	
23,500.0	12,500.0	23,413.8	12,500.0	187.0	184.9	-90.00	-10,852.5	106.1	1,326.3	955.2	371.11	3.574	
23,600.0	12,500.0	23,513.8	12,500.0	188.6	186.5	-90.00	-10,952.5	106.9	1,326.6	952.3	374.31	3.544	
23,700.0	12,500.0	23,613.8	12,500.0	190.2	188.1	-90.00	-11,052.5	107.6	1,326.9	949.4	377.52	3.515	
23,800.0	12,500.0	23,713.8	12,500.0	191.8	189.7	-90.00	-11,152.5	108.4	1,327.2	946.5	380.73	3.486	
23,900.0	12,500.0	23,813.8	12,500.0	193.4	191.4	-90.00	-11,252.5	109.1	1,327.5	943.6	383.94	3.458	
24,000.0	12,500.0	23,913.8	12,500.0	195.0	193.0	-90.00	-11,352.5	109.9	1,327.8	940.7	387.15	3.430	
24,100.0	12,500.0	24,013.8	12,500.0	196.6	194.6	-90.00	-11,452.5	110.6	1,328.2	937.8	390.36	3.402	
24,200.0	12,500.0	24,113.8	12,500.0	198.2	196.2	-90.00	-11,552.5	111.4	1,328.5	934.9	393.57	3.375	
24,300.0	12,500.0	24,213.8	12,500.0	199.8	197.8	-90.00	-11,652.5	112.1	1,328.8	932.0	396.79	3.349	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 #226H - Wellbore #1 - Blm Plan #1

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 usft

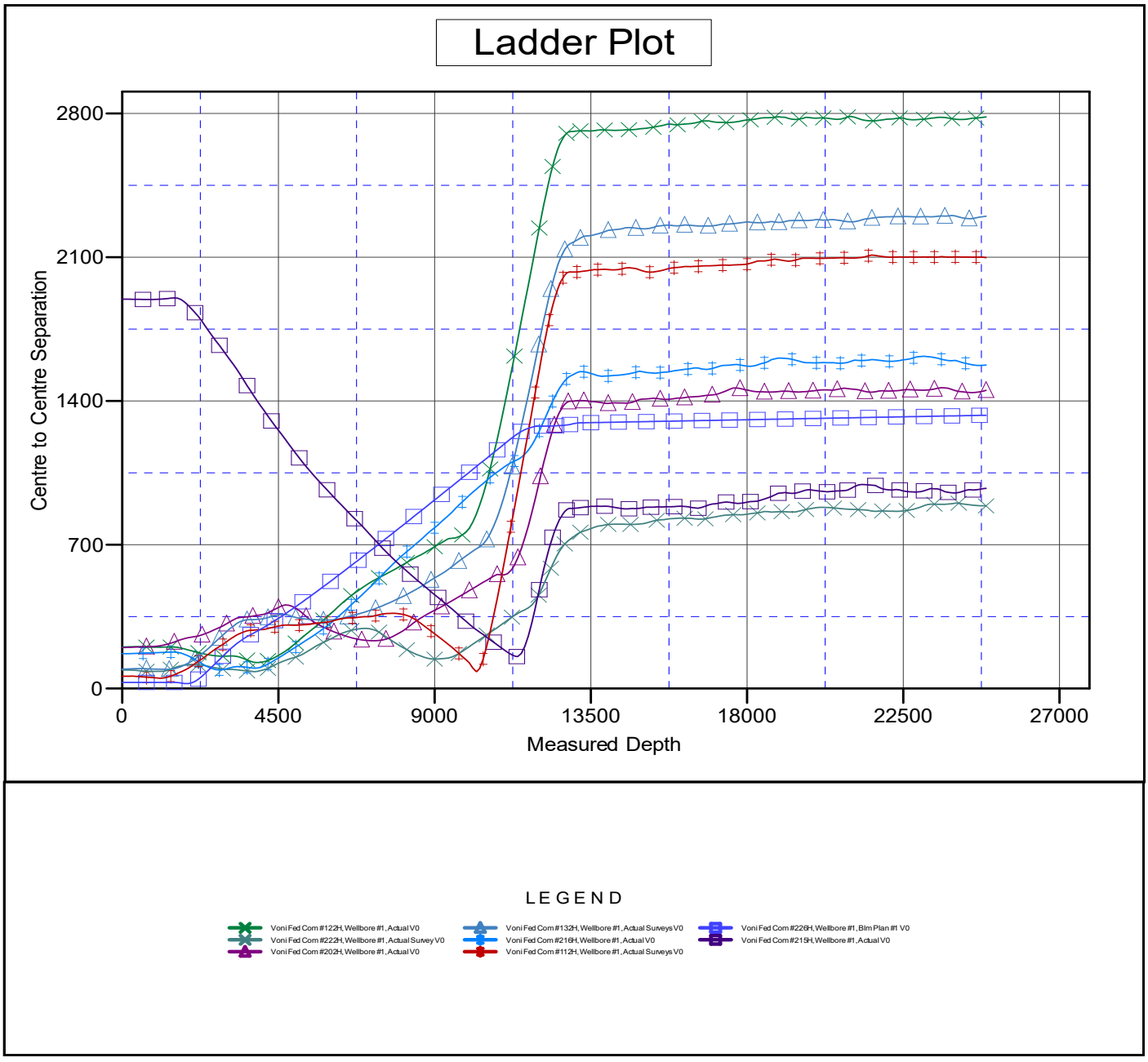
Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
24,400.0	12,500.0	24,313.8	12,500.0	201.4	199.4	-90.00	-11,752.5	112.9	1,329.1	929.1	400.01	3.323	
24,500.0	12,500.0	24,413.8	12,500.0	203.0	201.0	-90.00	-11,852.5	113.6	1,329.4	926.2	403.23	3.297	
24,600.0	12,500.0	24,513.8	12,500.0	204.6	202.6	-90.00	-11,952.5	114.4	1,329.7	923.3	406.45	3.272	
24,700.0	12,500.0	24,613.8	12,500.0	206.2	204.2	-90.00	-12,052.5	115.1	1,330.1	920.4	409.67	3.247	
24,800.0	12,500.0	24,713.8	12,500.0	207.8	205.8	-90.00	-12,152.5	115.9	1,330.4	917.5	412.89	3.222	
24,887.2	12,500.0	24,801.0	12,500.0	209.2	207.2	-90.00	-12,239.6	116.5	1,330.6	914.9	415.70	3.201	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 @ 3214.5usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Voni Fed Com #242H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.29°

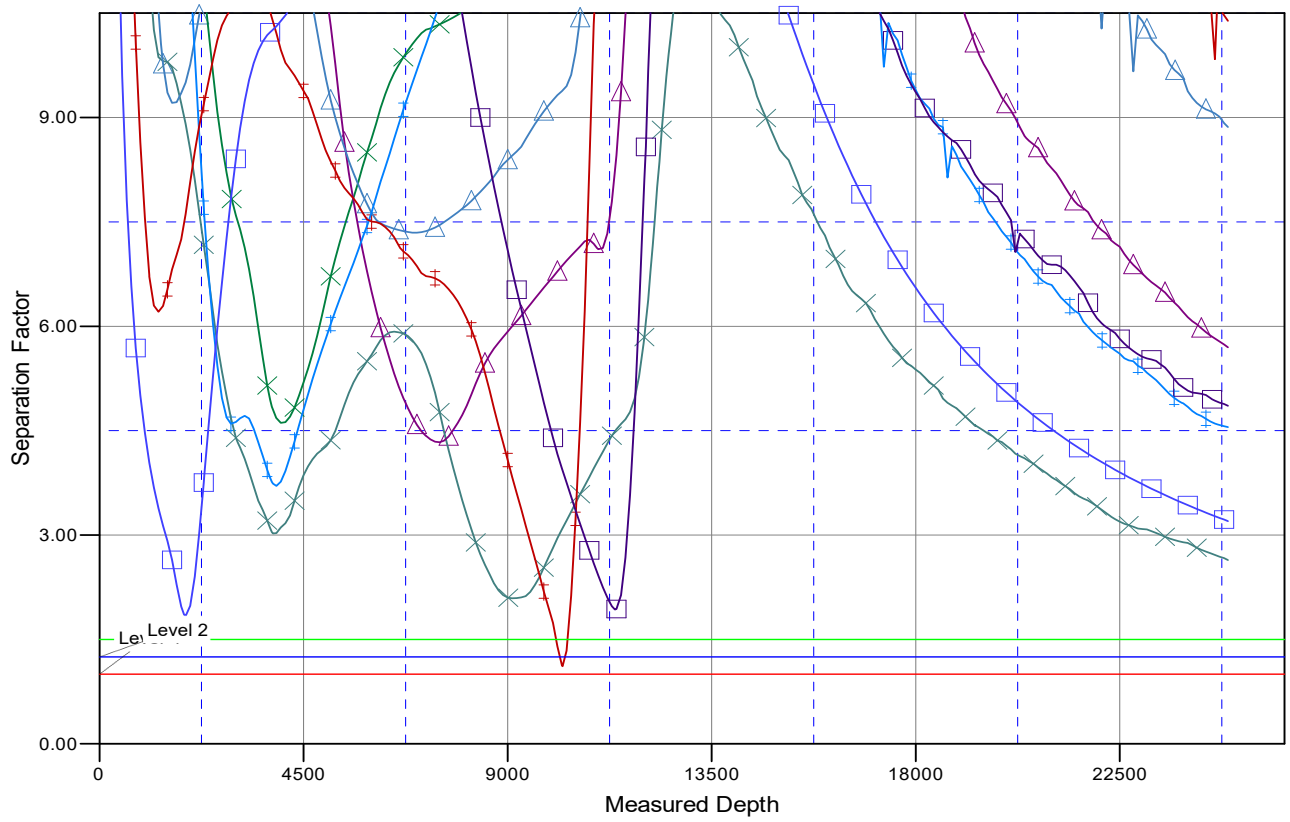


Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #242H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3214.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3214.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #242H	**Survey 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 @ 3214.5usft	Coordinates are relative to: Voni Fed Com #242H
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Central Meridian is 104° 20' 0.000 W	Grid Convergence at Surface is: 0.29°

Separation Factor Plot



LEGEND

Voni Fed Com #122H, Wellbore #1, Actual V0
Voni Fed Com #222H, Wellbore #1, Actual Survey V0
Voni Fed Com #202H, Wellbore #1, Actual V0
Voni Fed Com #132H, Wellbore #1, Actual Surveys V0
Voni Fed Com #216H, Wellbore #1, Actual V0
Voni Fed Com #112H, Wellbore #1, Actual Surveys V0
Voni Fed Com #226H, Wellbore #1, Blm Plan #1 V0
Voni Fed Com #215H, Wellbore #1, Actual V0

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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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 173776

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 173776
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	1/12/2023