U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

04/05/2021

Well Name: VONI FED COM

Well Location: T26S / R31E / SEC 21 / NWNE / 32.0345836 / -103.7810477

County or Parish/State: EDDY / NM

Well Number: 133H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM138866

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001547170

Well Status: Approved Application for Permit to Drill

Operator: MATADOR PRODUCTION COMPANY

Notice of Intent

Type of Submission: Notice of Intent

Type of Action Other

Date Sundry Submitted: 03/08/2021

Time Sundry Submitted: 04:09

Date proposed operation will begin: 06/24/2021

Procedure Description: BLM Bond No.: NMB001079 Surety Bond No.: RLB0015172 Matador requests the option to amend the casing and cement design to the attached plan. Add option to slim down 9-5/8” casing to 7-5/8” casing and deepen. Please see the supporting documentation attached and contact Blake Hermes at 972-371-5485 or bhermes@matadorresources.com for any questions. Matador requests to move the SHL of the Voni Fed Com 133H well from 320' FNL and 1976' FEL of Sec. 21-26S-31E to 320' FNL and 2086' FEL of Sec. 21-26S-31E. Also, Matador requests the BHL be revised from 100' FSL and 1980' FEL to 100' FSL and 2310' FEL of Sec. 33-26S-31E. Please see attached C102.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

LO_VONI_FED_COM_133H_REV4_S_20210308160400.pdf

Voni_Fed_Com_133H_Directional_AC_Report_v3_20210308155748.pdf

Voni_Fed_Com_133H_Directional_Well_Plan_v3_20210308155747.pdf

Voni_Fed_Com_133H_Directional_Wall_Plot_v3_20210308155747.pdf

Voni_Fed_Com_133H_Drill_Plan_20210308155723.pdf

Voni_Fed_Com_133H_Casing_Table_Spec_20210308155723.pdf

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Conditions of Approval

Additional Reviews

VONI_FED_COM_133H_SUNDRY___Drilling_Calculations_20210317112334.pdf

VONI_FED_COM_133H_SUNDRY___COA_20210317112322.pdf

Operator Certification

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 submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: FITZGERALD

Signed on: MAR 08, 2021 03:07 PM

Name: MATADOR PRODUCTION COMPANY

Title: Regulatory

Street Address: 5400 LBJ FREEWAY STE 1500

City: DALLAS **State:** TX

Phone: (972) 371-5448

Email address: nicky.fitzgerald@matadorresources.com

Field Representative

Representative Name:

Street Address:

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

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 04/05/2021

Signature: Chris Walls

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

FORM C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ **AMENDED REPORT**

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1]API Number	[2]Pool Code	[3]Pool Name
30-015-47170	97860	JENNINGS; BONE SPRING, WEST

[4]Property Code	[5]Property Name	[6]Well Number
328098	VONI FED COM	133H

[7]OGRID No.	[8]Operator Name	[9]Elevation
228937	MATADOR PRODUCTION COMPANY	3194'

[10]Surface Location

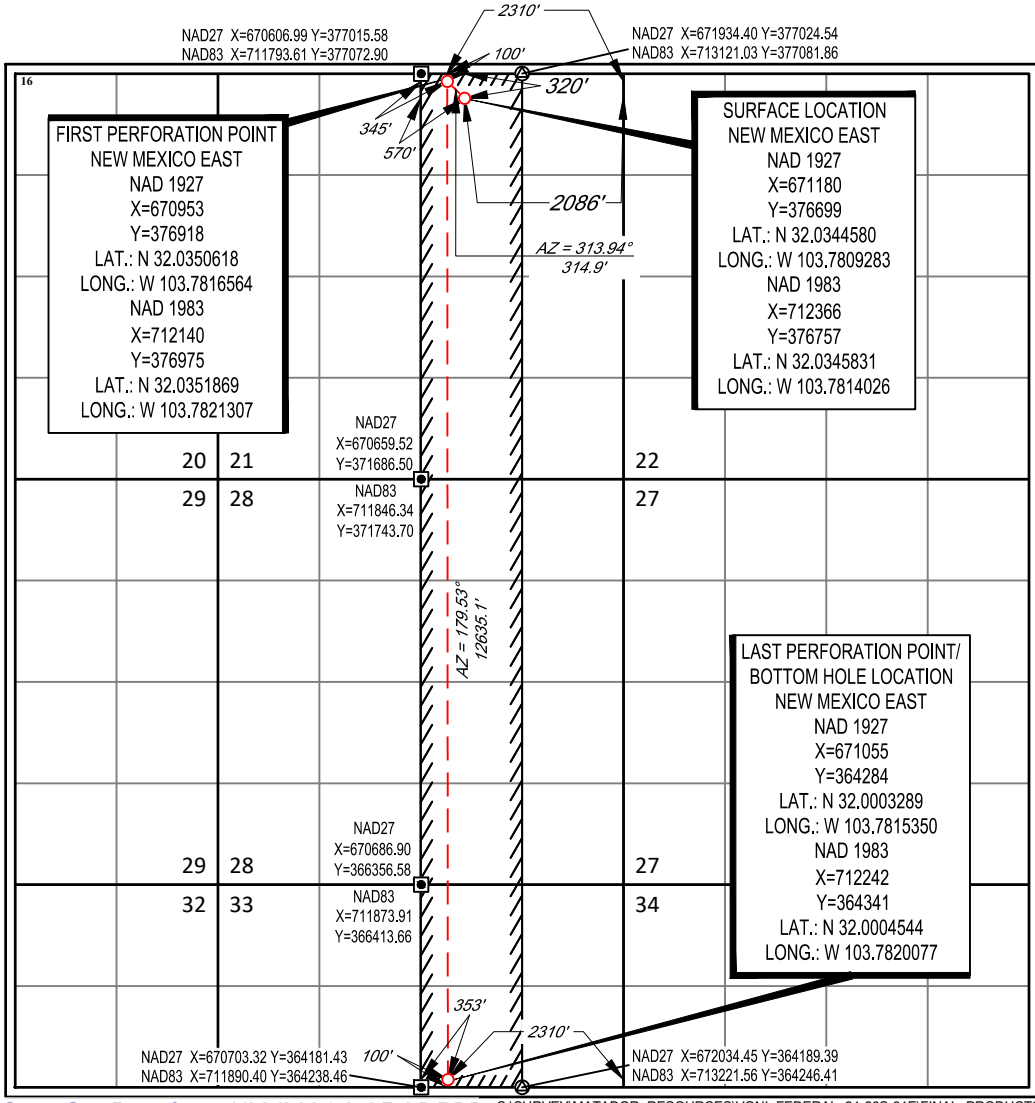
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	21	26-S	31-E	–	320'	NORTH	2086'	EAST	EDDY

[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
2	33	26-S	31-E	–	100'	SOUTH	2310'	EAST	EDDY

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
385.27			

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 03/08/2021
Signature Date

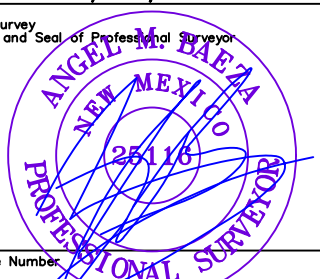
Nicky Fitzgerald
Printed Name

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.

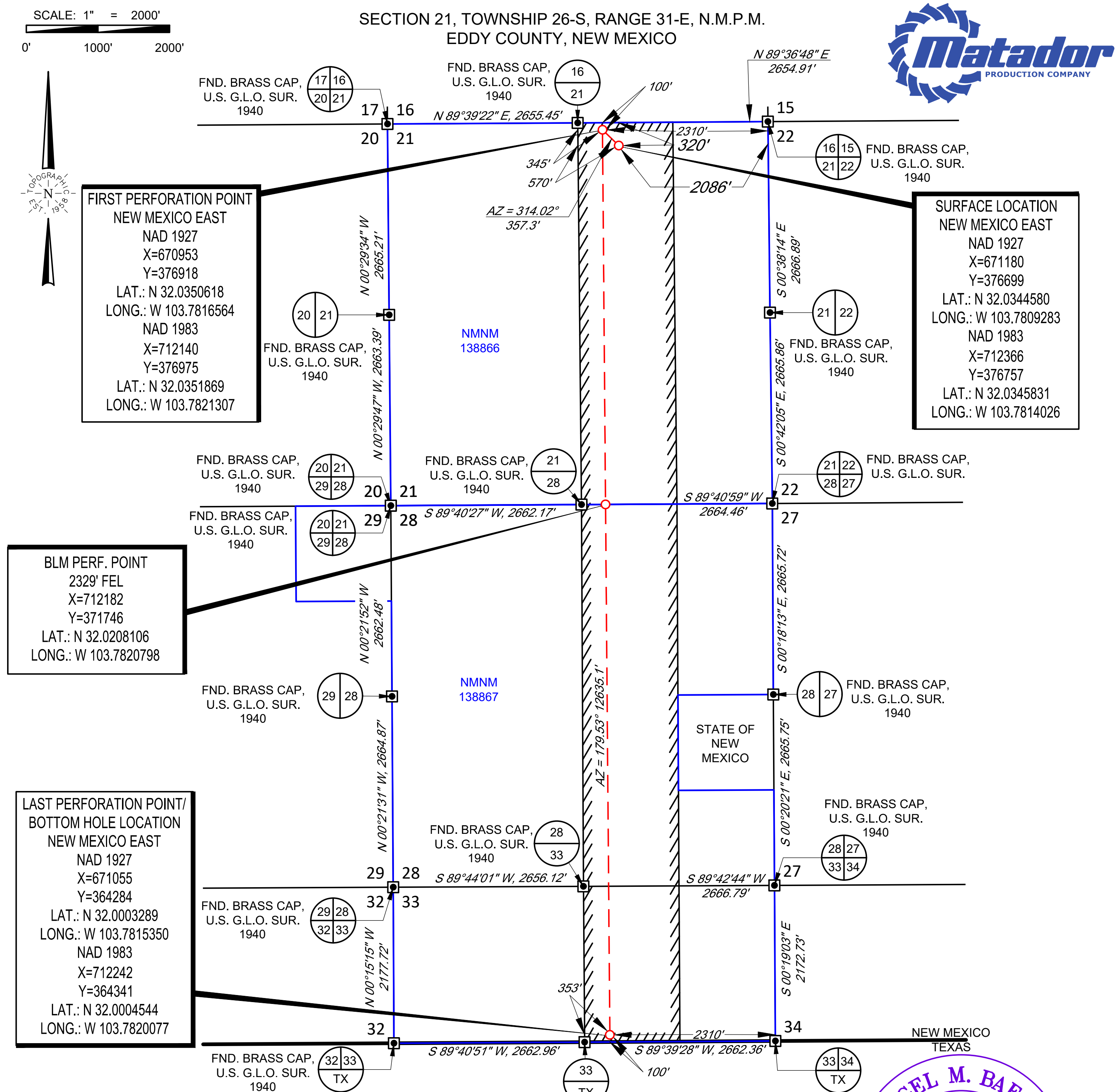
02/05/2020
Date of Survey
Signature and Seal of Professional Surveyor



Certificate Number

S:\SURVEY\MATADOR_RESOURCES\VONI_FEDERAL_21-26S-31E\FINAL_PRODUCTS\LO_VONI_FED_COM_133H_REV4.DWG 2/26/2021 2:47:58 PM adisabella

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



LEASE NAME & WELL NO.: VONI FED COM 133H

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

COUNTY EDDY STATE NM

DESCRIPTION 320' FNL & 2086' FEL

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 MILES, THENCE WEST (RIGHT) ON PROPOSED RD. ±1.8 MILES, THENCE WEST (RIGHT) ON PROPOSED RD. ±194 FEET, TO A POINT ±352 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.

Angel M. Baeza, P.S. No. 25116
FEBRUARY 20, 2021

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

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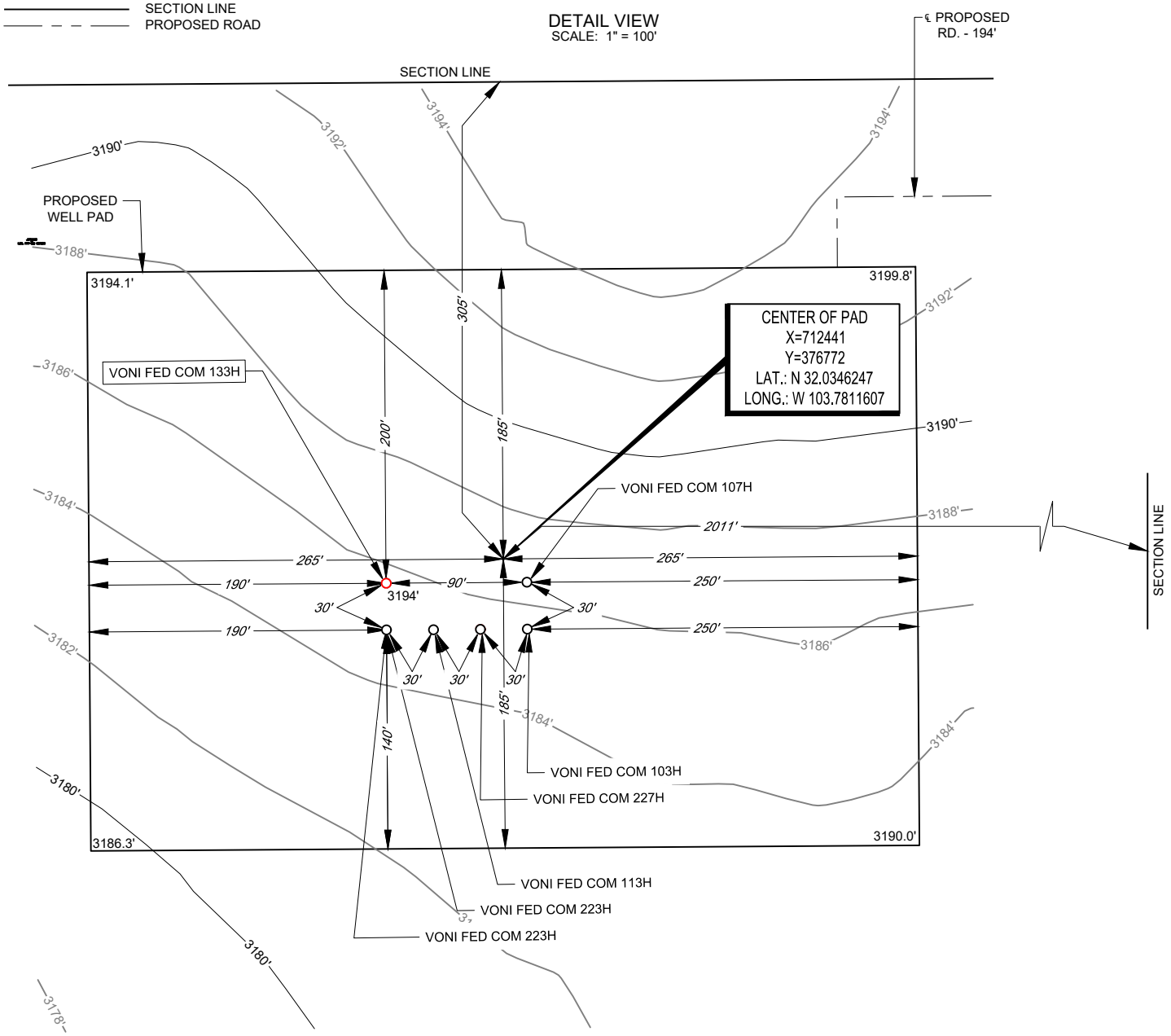
Matador PRODUCTION COMPANY

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

LEGEND

SECTION LINE
PROPOSED ROAD

DETAIL VIEW
SCALE: 1" = 100'



LEASE NAME & WELL NO.: VONI FED COM 133H

133H LATITUDE N 32.0345831 133H LONGITUDE W 103.7814026

CENTER OF PAD IS 305' FNL & 2011' FEL

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

ANGEL M. BAEZA NEW MEXICO 25116 PROFESSIONAL SURVEYOR

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

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

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

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WWW.TOPOGRAPHIC.COM

ORIGINAL DOCUMENT SIZE: 8.5" X 11"

S:\SURVEY\MATADOR_RESOURCES\VONI_FEDERAL_21-26S-31E\FINAL_PRODUCTS\LO_VONI_FED_COM_133H_REV4.DWG 2/26/2021 2:47:59 PM adisabella

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**MATADOR PRODUCTION COMPANY**
LEASE NO.:	**NMNM138866**
WELL NAME & NO.:	VONI FED COM 133H SUNDRY
SURFACE HOLE FOOTAGE:	320'/N & 2086'/E
BOTTOM HOLE FOOTAGE	100'/S & 2310'/ E
LOCATION:	Section 21, T.26 S., R.31 E., NMPM
COUNTY:	Eddy County, New Mexico

COA

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

ALL Previous COAs Still Apply.

A. CASING

1. The **7-5/8** inch intermediate casing shall be set at approximately **9887 feet**. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

   Option 1 (Single Stage):

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

   Option 2:

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

   a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.

b. Second stage above DV tool:

- Cement to surface. If cement does not circulate, contact the appropriate BLM office.
  Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

❖ In High Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

❖ **Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.**

Operator has proposed to pump down 13-3/8" X 7-5/8" annulus. Operator must run a CBL from TD of the Choose an item.**" casing to surface. Submit results to BLM.**

RI03172021

212631 B ATS-19-2698 VONI FED COM 133H Eddy NMNM138866 Matador 13-22 03172021 RI SUNDRY

VONI FED COM 133H SUNDRY

13 3/8 surface csg in a 17 1/2 inch hole. Design Factors — Surface

Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	54.50	J 55	BTC	14.69	2.32	0.57	1,066	6	1.03	4.47	58,097
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,446			Tail Cmt	does not	circ to sfc.	Totals:	1,066				58,097

Comparison of Proposed to Minimum Required Cement Volumes

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
17 1/2	0.6946	760	1222	740	65	8.80	2650	3M	1.56

Class 'C' tail cmt yield above 1.35.

Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK. Site plat (pipe racks S or E) as per O.O.1.III.B.4.i. not found.

7 5/8 casing inside the 13 3/8 Design Factors — Int 1

Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	29.70	P 110	BTC	3.20	1.11	1.83	9,887	2	3.33	2.02	293,644
w/8.4#/g mud, 30min Sfc Csg Test psig:						Totals:	9,887				293,644
The cement volume(s) are intended to achieve a top of 0 ft from surface or a 1066 overlap.											

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
9 7/8	0.2148	910	2852	2482	15	9.40	2844	3M	0.69

Class 'H' tail cmt yld > 1.20

More cement may be needed , Casing must be 1//3 fluid filled during drilling.

Tail cmt

5 1/2 casing inside the 7 5/8 Design Factors — Prod 1

Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00	P 110	TLW	2.67	2.32	2.77	23,083	3	5.05	4.57	461,660
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,332						Totals:	23,083				461,660
The cement volume(s) are intended to achieve a top of 9687 ft from surface or a 200 overlap.											

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
6 3/4	0.0835	910	1229	1121	10	9.40			0.44

Class 'C' tail cmt yld > 1.35

More cement may be needed.

#N/A

Matador Production Company

Rustler Breaks
Voni
Voni Fed Com #133H

Wellbore #1
BLM Plan #2

Anticollision Report

24 February, 2021

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Reference BLM Plan #2

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.0usft	**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** 2/24/2021

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	23,082.8	BLM Plan #2 (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 #023H - Wellbore #1 - BLM Plan #1	7,164.4	7,176.5	63.7	12.2	1.238	Level 2, CC, ES, SF
Voni Fed Com #103H - Wellbore #1 - BLM Plan #1	3,019.5	3,022.1	40.4	19.1	1.900	CC, ES
Voni Fed Com #103H - Wellbore #1 - BLM Plan #1	3,100.0	3,101.9	41.3	19.5	1.893	SF
Voni Fed Com #107H - Wellbore #1 - BLM Plan #1	1,000.0	999.0	90.0	83.3	13.422	CC
Voni Fed Com #107H - Wellbore #1 - BLM Plan #1	1,100.0	1,097.7	90.7	83.3	12.234	ES
Voni Fed Com #107H - Wellbore #1 - BLM Plan #1	8,400.0	8,420.1	454.7	394.9	7.593	SF
Voni Fed Com #113H - Wellbore #1 - BLM Plan #1	3,835.3	3,837.6	25.4	-1.6	0.942	Level 1, CC, ES, SF
Voni Fed Com #123H - Wellbore #1 - Wellbore #1	1,009.4	1,006.4	73.5	66.8	11.062	CC
Voni Fed Com #123H - Wellbore #1 - Wellbore #1	9,300.0	9,303.1	126.8	61.1	1.930	ES, SF
Voni Fed Com #203H - Wellbore #1 - Actual Survey	0.0	0.0	114.1			
Voni Fed Com #203H - Wellbore #1 - Actual Survey	2,800.0	2,797.2	127.6	108.3	6.621	ES
Voni Fed Com #203H - Wellbore #1 - Actual Survey	22,800.0	23,484.2	662.5	463.1	3.323	SF
Voni Fed Com #217H - Wellbore #1 - Actual Surveys	3,058.0	3,057.0	57.6	36.4	2.713	CC
Voni Fed Com #217H - Wellbore #1 - Actual Surveys	3,100.0	3,098.9	57.8	36.2	2.682	ES
Voni Fed Com #217H - Wellbore #1 - Actual Surveys	3,200.0	3,199.0	59.2	37.0	2.664	SF
Voni Fed Com #223H - Wellbore #1 - BLM Plan #1	1,996.6	1,995.3	21.1	7.3	1.528	CC
Voni Fed Com #223H - Wellbore #1 - BLM Plan #1	2,000.0	1,998.6	21.1	7.3	1.525	ES, SF
Voni Fed Com #227H - Wellbore #1 - BLM Plan #1	1,500.0	1,499.0	67.1	56.8	6.518	CC
Voni Fed Com #227H - Wellbore #1 - BLM Plan #1	1,600.0	1,598.5	67.4	56.4	6.129	ES
Voni Fed Com #227H - Wellbore #1 - BLM Plan #1	10,100.0	10,121.0	383.0	310.8	5.307	SF
Voni Fed Com #243H - Wellbore #1 - BLM Plan #1	7,221.5	7,218.7	111.7	59.9	2.156	CC
Voni Fed Com #243H - Wellbore #1 - BLM Plan #1	10,050.0	10,047.6	112.0	40.2	1.559	ES, SF

Offset Design Voni - Voni Fed Com #023H - 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	1.0	-1.0	0.0	0.0	101.70	-29.0	140.3	143.2				
100.0	100.0	101.0	99.0	0.1	0.1	101.70	-29.0	140.3	143.2	143.0	0.26	551.130	
200.0	200.0	201.0	199.0	0.5	0.5	101.70	-29.0	140.3	143.2	142.3	0.98	146.631	
300.0	300.0	301.0	299.0	0.8	0.8	101.70	-29.0	140.3	143.2	141.5	1.69	84.565	
400.0	400.0	401.0	399.0	1.2	1.2	101.70	-29.0	140.3	143.2	140.8	2.41	59.416	
500.0	500.0	499.0	499.0	1.6	1.6	101.70	-29.0	140.3	143.2	140.1	3.12	45.901	

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

Anticollision Report

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Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #023H - 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
600.0	600.0	600.6	600.6	1.9	1.9	101.42	-28.3	139.9	142.7	138.9	3.84	37.136	
700.0	700.0	702.1	702.0	2.3	2.3	100.57	-25.9	138.6	141.1	136.5	4.56	30.909	
800.0	800.0	803.5	803.3	2.6	2.6	99.10	-21.9	136.6	138.4	133.1	5.29	26.190	
900.0	900.0	904.6	904.3	3.0	3.0	96.95	-16.3	133.8	134.9	128.9	6.01	22.452	
1,000.0	1,000.0	1,005.6	1,004.9	3.4	3.4	94.02	-9.2	130.2	130.6	123.9	6.73	19.403	
1,100.0	1,100.0	1,106.2	1,105.1	3.7	3.8	90.21	-0.5	125.8	125.9	118.5	7.46	16.878	
1,200.0	1,200.0	1,206.5	1,204.7	4.1	4.1	85.38	9.8	120.6	121.1	112.9	8.20	14.778	
1,300.0	1,300.0	1,306.3	1,303.6	4.4	4.5	79.39	21.5	114.6	116.7	107.8	8.94	13.057	
1,400.0	1,400.0	1,405.3	1,401.7	4.8	4.9	72.70	33.8	108.4	113.6	103.9	9.69	11.719	
1,500.0	1,500.0	1,504.3	1,499.7	5.1	5.3	65.74	46.0	102.2	112.1	101.6	10.45	10.727	
1,537.4	1,537.4	1,541.3	1,536.4	5.3	5.4	63.10	50.6	99.8	112.0	101.2	10.73	10.433	
1,600.0	1,600.0	1,603.3	1,597.8	5.5	5.7	58.70	58.3	95.9	112.3	101.1	11.20	10.023	
1,700.0	1,700.0	1,702.4	1,695.9	5.9	6.1	51.78	70.6	89.7	114.2	102.3	11.95	9.555	
1,800.0	1,800.0	1,801.4	1,793.9	6.2	6.5	45.19	82.9	83.5	117.8	105.1	12.70	9.274	
1,900.0	1,900.0	1,900.4	1,892.0	6.6	6.9	39.05	95.2	77.2	122.8	109.4	13.43	9.141	
2,000.0	2,000.0	2,000.6	1,990.0	6.9	7.3	33.44	107.5	71.0	129.1	115.0	14.17	9.116	
2,100.0	2,100.0	2,101.5	2,088.1	7.3	7.7	28.40	119.8	64.8	136.6	121.7	14.90	9.172	
2,200.0	2,200.0	2,197.5	2,186.2	7.7	8.1	23.90	132.1	58.5	145.0	129.4	15.60	9.297	
2,300.0	2,300.0	2,303.5	2,284.2	8.0	8.5	19.91	144.4	52.3	154.3	137.9	16.34	9.440	
2,400.0	2,400.0	2,404.4	2,382.3	8.4	9.0	16.38	156.7	46.1	164.1	147.1	17.06	9.622	
2,500.0	2,500.0	2,505.4	2,480.4	8.7	9.4	13.26	169.0	39.8	174.6	156.8	17.78	9.820	
2,600.0	2,600.0	2,593.6	2,578.4	9.1	9.7	10.50	181.2	33.6	185.5	167.0	18.45	10.055	
2,700.0	2,700.0	2,707.4	2,676.5	9.4	10.2	8.05	193.5	27.4	196.8	177.5	19.21	10.240	
2,800.0	2,800.0	2,808.3	2,774.5	9.8	10.6	5.86	205.8	21.1	208.4	188.4	19.93	10.453	
2,900.0	2,900.0	2,909.3	2,872.6	10.2	11.0	3.90	218.1	14.9	220.2	199.6	20.65	10.663	
3,000.0	3,000.0	2,989.7	2,970.7	10.5	11.4	2.15	230.4	8.7	232.3	211.0	21.29	10.910	
3,100.0	3,100.0	3,091.4	3,071.4	10.9	11.8	-10.60	242.8	2.4	243.5	221.5	22.03	11.054	
3,200.0	3,200.0	3,197.1	3,176.4	11.2	12.2	-11.97	253.5	-3.1	251.1	228.3	22.79	11.017	
3,300.0	3,299.9	3,303.2	3,282.2	11.6	12.6	-13.08	261.7	-7.2	254.7	231.1	23.55	10.816	
3,400.0	3,399.7	3,409.6	3,388.3	12.0	13.0	-14.00	267.2	-10.0	254.1	229.8	24.28	10.464	
3,500.0	3,499.4	3,515.9	3,494.6	12.3	13.4	-14.72	270.1	-11.5	250.1	225.1	24.99	10.007	
3,600.0	3,599.2	3,619.5	3,598.2	12.7	13.7	-15.20	270.6	-11.7	243.8	218.1	25.69	9.491	
3,700.0	3,698.9	3,719.3	3,697.9	13.0	14.0	-15.64	270.6	-11.7	237.1	210.7	26.39	8.985	
3,800.0	3,798.7	3,819.0	3,797.7	13.4	14.4	-16.11	270.6	-11.7	230.4	203.3	27.09	8.505	
3,900.0	3,898.5	3,918.8	3,897.5	13.8	14.7	-16.61	270.6	-11.7	223.7	195.9	27.79	8.050	
4,000.0	3,998.2	4,018.5	3,997.2	14.1	15.0	-17.13	270.6	-11.7	217.0	188.5	28.49	7.617	
4,100.0	4,098.0	4,118.3	4,097.0	14.5	15.4	-17.69	270.6	-11.7	210.4	181.2	29.19	7.206	
4,200.0	4,197.7	4,218.1	4,196.7	14.8	15.7	-18.29	270.6	-11.7	203.7	173.8	29.89	6.815	
4,300.0	4,297.5	4,317.8	4,296.5	15.2	16.0	-18.93	270.6	-11.7	197.1	166.5	30.60	6.442	
4,400.0	4,397.2	4,417.6	4,396.2	15.6	16.4	-19.61	270.6	-11.7	190.5	159.2	31.30	6.087	
4,500.0	4,497.0	4,517.3	4,496.0	15.9	16.7	-20.34	270.6	-11.7	184.0	152.0	32.00	5.748	
4,600.0	4,596.8	4,617.1	4,595.8	16.3	17.0	-21.12	270.6	-11.7	177.4	144.7	32.71	5.425	
4,700.0	4,696.5	4,716.8	4,695.5	16.7	17.4	-21.96	270.6	-11.7	170.9	137.5	33.41	5.116	
4,800.0	4,796.3	4,816.6	4,795.3	17.0	17.7	-22.87	270.6	-11.7	164.5	130.4	34.12	4.821	
4,900.0	4,896.0	4,916.3	4,895.0	17.4	18.1	-23.85	270.6	-11.7	158.1	123.3	34.82	4.540	
5,000.0	4,995.8	5,016.1	4,994.8	17.8	18.4	-24.92	270.6	-11.7	151.7	116.2	35.53	4.270	
5,100.0	5,095.5	5,115.9	5,094.5	18.1	18.7	-26.07	270.6	-11.7	145.4	109.2	36.24	4.013	
5,200.0	5,195.3	5,215.6	5,194.3	18.5	19.1	-27.33	270.6	-11.7	139.2	102.3	36.95	3.768	
5,300.0	5,295.0	5,315.4	5,294.0	18.9	19.4	-28.71	270.6	-11.7	133.0	95.4	37.66	3.533	
5,400.0	5,394.8	5,415.1	5,393.8	19.2	19.8	-30.23	270.6	-11.7	127.0	88.6	38.37	3.309	
5,500.0	5,494.6	5,514.9	5,493.6	19.6	20.1	-31.89	270.6	-11.7	121.0	81.9	39.08	3.096	
5,600.0	5,594.3	5,614.6	5,593.3	20.0	20.5	-33.72	270.6	-11.7	115.1	75.3	39.79	2.893	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #023H - 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
5,700.0	5,694.1	5,714.4	5,693.1	20.3	20.8	-35.75	270.6	-11.7	109.4	68.9	40.51	2.700	
5,800.0	5,793.8	5,814.2	5,792.8	20.7	21.2	-38.00	270.6	-11.7	103.8	62.6	41.22	2.518	
5,900.0	5,893.6	5,913.9	5,892.6	21.1	21.5	-40.50	270.6	-11.7	98.4	56.4	41.94	2.345	
6,000.0	5,993.3	6,013.7	5,992.3	21.4	21.8	-43.28	270.6	-11.7	93.2	50.5	42.67	2.184	
6,100.0	6,093.1	6,113.4	6,092.1	21.8	22.2	-46.38	270.6	-11.7	88.2	44.8	43.40	2.033	
6,200.0	6,192.9	6,213.2	6,191.9	22.2	22.5	-49.84	270.6	-11.7	83.6	39.4	44.13	1.893	
6,300.0	6,292.6	6,312.9	6,291.6	22.5	22.9	-53.69	270.6	-11.7	79.2	34.4	44.87	1.766	
6,400.0	6,392.4	6,412.7	6,391.4	22.9	23.2	-57.97	270.6	-11.7	75.3	29.7	45.62	1.651	
6,500.0	6,492.1	6,512.4	6,491.1	23.3	23.6	-62.68	270.6	-11.7	71.8	25.5	46.38	1.549	
6,600.0	6,591.9	6,612.2	6,590.9	23.6	23.9	-67.83	270.6	-11.7	68.9	21.8	47.14	1.462	Level 3
6,700.0	6,691.6	6,712.0	6,690.6	24.0	24.3	-73.38	270.6	-11.7	66.6	18.7	47.91	1.390	Level 3
6,800.0	6,791.4	6,811.7	6,790.4	24.4	24.6	-79.28	270.6	-11.7	64.9	16.2	48.69	1.334	Level 3
6,900.0	6,891.1	6,911.5	6,890.1	24.7	25.0	-85.41	270.6	-11.7	64.0	14.5	49.46	1.294	Level 3
6,973.6	6,964.5	6,984.9	6,963.5	25.0	25.2	-90.00	270.6	-11.7	63.8	13.8	50.03	1.275	Level 3
7,000.0	6,990.9	7,011.2	6,989.9	25.1	25.3	-91.65	270.6	-11.7	63.8	13.6	50.23	1.270	Level 3
7,020.0	7,010.8	7,031.1	7,009.8	25.2	25.4	-92.90	270.6	-11.7	63.9	13.5	50.39	1.268	Level 3
7,100.0	7,090.7	7,111.8	7,090.5	25.5	25.7	-98.01	269.6	-11.6	64.1	13.1	50.98	1.257	Level 3
7,164.4	7,155.1	7,176.5	7,154.7	25.7	25.8	-106.87	262.3	-10.4	63.7	12.2	51.45	1.238	Level 2, CC, ES, SF
7,200.0	7,190.6	7,211.1	7,188.6	25.8	25.9	-113.88	255.5	-9.4	64.1	12.4	51.68	1.240	Level 2
7,286.6	7,277.3	7,291.1	7,264.9	26.1	26.1	-123.16	232.0	-5.8	71.4	20.0	51.43	1.389	Level 3
7,300.0	7,290.6	7,302.8	7,275.8	26.2	26.2	-126.31	227.7	-5.1	73.7	22.5	51.20	1.440	Level 3
7,400.0	7,390.6	7,384.1	7,348.5	26.5	26.3	-146.13	191.9	0.5	103.4	55.3	48.07	2.150	
7,500.0	7,490.6	7,453.7	7,406.1	26.9	26.4	-158.21	153.3	6.4	151.4	107.3	44.12	3.431	
7,600.0	7,590.6	7,512.5	7,450.8	27.3	26.5	-165.16	115.7	12.2	212.0	171.5	40.52	5.233	
7,700.0	7,690.6	7,561.7	7,485.0	27.6	26.6	-169.37	80.8	17.7	281.3	243.9	37.43	7.517	
7,800.0	7,790.6	7,600.0	7,509.5	28.0	26.7	-171.91	51.7	22.2	356.9	322.4	34.51	10.342	
7,900.0	7,890.6	7,637.7	7,531.6	28.3	26.7	-173.94	21.5	26.8	436.9	404.3	32.61	13.399	
8,000.0	7,990.6	7,667.2	7,547.5	28.7	26.8	-175.27	-3.0	30.6	520.4	489.7	30.76	16.918	
8,100.0	8,090.6	7,700.0	7,563.7	29.0	26.9	-176.53	-31.3	35.0	606.7	577.0	29.72	20.411	
8,200.0	8,190.6	7,714.0	7,570.1	29.4	26.9	-177.02	-43.6	36.9	694.9	666.9	27.93	24.879	
8,300.0	8,290.6	7,732.8	7,578.2	29.7	26.9	-177.62	-60.4	39.5	784.8	757.9	26.86	29.221	
8,400.0	8,390.6	7,750.0	7,585.1	30.1	27.0	-178.12	-75.9	41.9	876.1	850.1	26.00	33.697	
8,500.0	8,490.6	7,750.0	7,585.1	30.4	27.0	-178.12	-75.9	41.9	968.7	944.1	24.67	39.267	
8,600.0	8,590.6	7,776.6	7,594.8	30.8	27.0	-178.83	-100.4	45.7	1,061.8	1,037.1	24.62	43.118	
8,700.0	8,690.6	7,800.0	7,602.4	31.2	27.1	-179.39	-122.2	49.1	1,156.0	1,131.5	24.53	47.128	
8,800.0	8,790.6	7,800.0	7,602.4	31.5	27.1	-179.39	-122.2	49.1	1,250.5	1,226.7	23.78	52.589	
8,900.0	8,890.6	7,800.0	7,602.4	31.9	27.1	-179.39	-122.2	49.1	1,345.8	1,322.6	23.20	58.013	
9,000.0	8,990.6	7,800.0	7,602.4	32.2	27.1	-179.39	-122.2	49.1	1,441.8	1,419.0	22.75	63.360	
9,100.0	9,090.6	7,823.5	7,609.2	32.6	27.1	-179.90	-144.5	52.5	1,537.6	1,514.6	22.97	66.943	
9,200.0	9,190.6	7,830.4	7,611.0	32.9	27.2	179.96	-151.1	53.5	1,634.0	1,611.2	22.83	71.571	
9,300.0	9,290.6	7,850.0	7,615.6	33.3	27.2	179.59	-169.9	56.5	1,731.0	1,708.0	23.01	75.235	
9,400.0	9,390.6	7,850.0	7,615.6	33.6	27.2	179.59	-169.9	56.5	1,827.9	1,805.0	22.83	80.080	
9,500.0	9,490.6	7,850.0	7,615.6	34.0	27.2	179.59	-169.9	56.5	1,925.1	1,902.4	22.70	84.791	
9,600.0	9,590.6	7,850.0	7,615.6	34.3	27.2	179.59	-169.9	56.5	2,022.5	1,999.9	22.63	89.363	
9,700.0	9,690.6	7,850.0	7,615.6	34.7	27.2	179.59	-169.9	56.5	2,120.2	2,097.6	22.61	93.792	
9,800.0	9,790.6	7,850.0	7,615.6	35.1	27.2	179.59	-169.9	56.5	2,218.2	2,195.5	22.62	98.078	
9,900.0	9,890.6	7,850.0	7,615.6	35.4	27.2	179.59	-169.9	56.5	2,316.3	2,293.6	22.66	102.221	
10,000.0	9,990.6	7,869.7	7,619.7	35.8	27.3	179.24	-188.9	59.4	2,414.1	2,391.1	22.99	105.028	
10,037.4	10,028.0	7,871.0	7,619.9	35.9	27.3	179.21	-190.2	59.6	2,450.8	2,427.7	23.03	106.417	
10,050.0	10,040.6	7,871.5	7,620.0	35.9	27.3	-15.17	-190.6	59.7	2,463.2	2,440.1	23.04	106.891	
10,100.0	10,090.5	7,873.7	7,620.4	36.1	27.3	-10.81	-192.8	60.0	2,511.6	2,488.5	23.08	108.817	
10,150.0	10,139.9	7,876.6	7,621.0	36.2	27.3	-8.43	-195.6	60.4	2,558.9	2,535.8	23.09	110.812	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #023H - 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
10,200.0	10,188.5	7,880.1	7,621.6	36.4	27.3	-6.96	-199.0	61.0	2,604.7	2,581.6	23.08	112.849	
10,250.0	10,235.8	7,900.0	7,624.6	36.5	27.4	-6.19	-218.5	64.0	2,649.0	2,625.8	23.23	114.027	
10,300.0	10,281.5	7,900.0	7,624.6	36.6	27.4	-5.41	-218.5	64.0	2,691.0	2,667.9	23.13	116.338	
10,350.0	10,325.4	7,900.0	7,624.6	36.7	27.4	-4.82	-218.5	64.0	2,730.8	2,707.8	23.02	118.632	
10,400.0	10,366.9	7,900.0	7,624.6	36.9	27.4	-4.37	-218.5	64.0	2,768.2	2,745.2	22.90	120.875	
10,450.0	10,405.9	7,900.0	7,624.6	37.0	27.4	-4.02	-218.5	64.0	2,803.0	2,780.2	22.78	123.026	
10,500.0	10,442.0	7,900.0	7,624.6	37.1	27.4	-3.73	-218.5	64.0	2,835.0	2,812.3	22.67	125.040	
10,550.0	10,474.9	7,900.0	7,624.6	37.2	27.4	-3.51	-218.5	64.0	2,864.2	2,841.6	22.58	126.870	
10,600.0	10,504.5	7,923.3	7,627.3	37.3	27.4	-3.53	-241.3	67.5	2,889.8	2,867.1	22.67	127.448	
10,650.0	10,530.4	7,950.0	7,629.3	37.4	27.5	-3.61	-267.6	71.6	2,912.8	2,890.0	22.80	127.759	
10,700.0	10,552.5	7,950.0	7,629.3	37.5	27.5	-3.48	-267.6	71.6	2,931.9	2,909.2	22.74	128.905	
10,750.0	10,570.6	7,950.0	7,629.3	37.6	27.5	-3.38	-267.6	71.6	2,947.6	2,924.9	22.73	129.697	
10,800.0	10,584.6	7,950.0	7,629.3	37.7	27.5	-3.31	-267.6	71.6	2,960.0	2,937.2	22.75	130.098	
10,850.0	10,594.3	7,950.0	7,629.3	37.8	27.5	-3.26	-267.6	71.6	2,968.9	2,946.0	22.82	130.083	
10,900.0	10,599.7	7,965.8	7,629.8	37.9	27.6	-3.35	-283.3	74.0	2,974.0	2,951.0	23.00	129.283	
10,937.4	10,601.0	7,978.3	7,630.0	38.0	27.6	-3.44	-295.6	75.9	2,975.6	2,952.4	23.16	128.480	
11,000.0	10,601.0	7,993.2	7,630.0	38.2	27.7	-3.59	-310.3	78.2	2,976.9	2,953.5	23.44	126.980	
11,100.0	10,601.0	8,094.1	7,630.0	38.5	28.1	-4.34	-410.4	91.3	2,979.6	2,955.4	24.22	123.027	
11,200.0	10,601.0	8,198.9	7,630.0	38.9	28.6	-4.99	-514.7	101.2	2,982.1	2,957.1	25.09	118.880	
11,300.0	10,601.0	8,306.8	7,630.0	39.4	29.3	-5.50	-622.4	107.5	2,984.3	2,958.2	26.03	114.653	
11,400.0	10,601.0	8,414.7	7,630.0	39.9	30.0	-5.86	-730.3	109.7	2,985.9	2,958.8	27.02	110.508	
11,500.0	10,601.0	8,514.1	7,630.0	40.4	30.7	-6.09	-829.7	110.5	2,987.0	2,959.0	28.01	106.627	
11,600.0	10,601.0	8,613.8	7,630.0	41.0	31.6	-6.25	-929.4	111.3	2,987.8	2,958.8	29.05	102.856	
11,700.0	10,601.0	8,713.8	7,630.0	41.7	32.4	-6.34	-1,029.3	112.2	2,988.3	2,958.1	30.12	99.223	
11,766.0	10,601.0	8,779.7	7,630.0	42.2	33.0	-6.35	-1,095.3	112.7	2,988.3	2,957.5	30.84	96.908	
11,800.0	10,601.0	8,813.8	7,630.0	42.4	33.4	-6.35	-1,129.3	113.0	2,988.3	2,957.1	31.21	95.740	
11,900.0	10,601.0	8,913.8	7,630.0	43.2	34.4	-6.35	-1,229.3	113.8	2,988.3	2,956.0	32.35	92.388	
12,000.0	10,601.0	9,013.8	7,630.0	44.0	35.4	-6.35	-1,329.3	114.6	2,988.3	2,954.8	33.51	89.165	
12,100.0	10,601.0	9,113.8	7,630.0	44.8	36.5	-6.35	-1,429.3	115.4	2,988.3	2,953.6	34.72	86.079	
12,200.0	10,601.0	9,213.8	7,630.0	45.7	37.6	-6.35	-1,529.3	116.3	2,988.3	2,952.4	35.95	83.131	
12,300.0	10,601.0	9,313.8	7,630.0	46.6	38.8	-6.35	-1,629.3	117.1	2,988.3	2,951.1	37.21	80.320	
12,400.0	10,601.0	9,413.8	7,630.0	47.6	40.0	-6.35	-1,729.3	117.9	2,988.3	2,949.8	38.49	77.645	
12,500.0	10,601.0	9,513.8	7,630.0	48.6	41.2	-6.35	-1,829.3	118.7	2,988.3	2,948.5	39.79	75.101	
12,600.0	10,601.0	9,613.8	7,630.0	49.7	42.5	-6.35	-1,929.3	119.5	2,988.3	2,947.2	41.11	72.682	
12,700.0	10,601.0	9,713.8	7,630.0	50.8	43.8	-6.35	-2,029.3	120.3	2,988.3	2,945.9	42.46	70.385	
12,800.0	10,601.0	9,813.8	7,630.0	51.9	45.1	-6.35	-2,129.3	121.2	2,988.3	2,944.5	43.82	68.202	
12,900.0	10,601.0	9,913.8	7,630.0	53.0	46.4	-6.35	-2,229.3	122.0	2,988.3	2,943.1	45.19	66.129	
13,000.0	10,601.0	10,013.8	7,630.0	54.2	47.7	-6.35	-2,329.3	122.8	2,988.3	2,941.8	46.58	64.159	
13,100.0	10,601.0	10,113.8	7,630.0	55.4	49.1	-6.35	-2,429.3	123.6	2,988.3	2,940.4	47.98	62.286	
13,200.0	10,601.0	10,213.8	7,630.0	56.6	50.5	-6.35	-2,529.2	124.4	2,988.3	2,938.9	49.39	60.505	
13,300.0	10,601.0	10,313.8	7,630.0	57.8	51.9	-6.35	-2,629.2	125.3	2,988.3	2,937.5	50.81	58.811	
13,400.0	10,601.0	10,413.8	7,630.0	59.1	53.3	-6.35	-2,729.2	126.1	2,988.3	2,936.1	52.25	57.198	
13,500.0	10,601.0	10,513.8	7,630.0	60.3	54.8	-6.35	-2,829.2	126.9	2,988.3	2,934.6	53.69	55.661	
13,600.0	10,601.0	10,613.8	7,630.0	61.6	56.2	-6.35	-2,929.2	127.7	2,988.3	2,933.2	55.14	54.197	
13,700.0	10,601.0	10,713.8	7,630.0	62.9	57.6	-6.35	-3,029.2	128.5	2,988.3	2,931.7	56.60	52.800	
13,800.0	10,601.0	10,813.8	7,630.0	64.3	59.1	-6.35	-3,129.2	129.4	2,988.3	2,930.3	58.06	51.467	
13,900.0	10,601.0	10,913.8	7,630.0	65.6	60.6	-6.35	-3,229.2	130.2	2,988.3	2,928.8	59.54	50.194	
14,000.0	10,601.0	11,013.7	7,630.0	66.9	62.1	-6.35	-3,329.2	131.0	2,988.3	2,927.3	61.01	48.978	
14,100.0	10,601.0	11,113.7	7,630.0	68.3	63.6	-6.35	-3,429.2	131.8	2,988.3	2,925.8	62.50	47.814	
14,200.0	10,601.0	11,213.7	7,630.0	69.7	65.1	-6.35	-3,529.2	132.6	2,988.3	2,924.3	63.99	46.700	
14,300.0	10,601.0	11,313.7	7,630.0	71.1	66.6	-6.35	-3,629.2	133.5	2,988.3	2,922.8	65.48	45.634	
14,400.0	10,601.0	11,413.7	7,630.0	72.5	68.1	-6.35	-3,729.2	134.3	2,988.3	2,921.3	66.99	44.612	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #023H - 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
14,500.0	10,601.0	11,513.7	7,630.0	73.9	69.6	-6.35	-3,829.2	135.1	2,988.3	2,919.8	68.49	43.632	
14,600.0	10,601.0	11,613.7	7,630.0	75.3	71.1	-6.35	-3,929.2	135.9	2,988.3	2,918.3	70.00	42.691	
14,700.0	10,601.0	11,713.7	7,630.0	76.8	72.7	-6.35	-4,029.2	136.7	2,988.3	2,916.8	71.51	41.788	
14,800.0	10,601.0	11,813.7	7,630.0	78.2	74.2	-6.35	-4,129.2	137.5	2,988.3	2,915.3	73.03	40.920	
14,900.0	10,601.0	11,913.7	7,630.0	79.6	75.7	-6.35	-4,229.2	138.4	2,988.3	2,913.8	74.55	40.086	
15,000.0	10,601.0	12,013.7	7,630.0	81.1	77.3	-6.35	-4,329.2	139.2	2,988.3	2,912.3	76.07	39.283	
15,100.0	10,601.0	12,113.7	7,630.0	82.6	78.8	-6.35	-4,429.2	140.0	2,988.3	2,910.7	77.60	38.510	
15,200.0	10,601.0	12,213.7	7,630.0	84.0	80.4	-6.35	-4,529.2	140.8	2,988.3	2,909.2	79.13	37.766	
15,300.0	10,601.0	12,313.7	7,630.0	85.5	81.9	-6.35	-4,629.2	141.6	2,988.3	2,907.7	80.66	37.048	
15,400.0	10,601.0	12,413.7	7,630.0	87.0	83.5	-6.35	-4,729.2	142.5	2,988.3	2,906.1	82.20	36.356	
15,500.0	10,601.0	12,513.7	7,630.0	88.5	85.1	-6.35	-4,829.2	143.3	2,988.3	2,904.6	83.73	35.689	
15,600.0	10,601.0	12,613.7	7,630.0	90.0	86.6	-6.35	-4,929.2	144.1	2,988.3	2,903.0	85.27	35.044	
15,700.0	10,601.0	12,713.7	7,630.0	91.5	88.2	-6.35	-5,029.2	144.9	2,988.3	2,901.5	86.81	34.422	
15,800.0	10,601.0	12,813.7	7,630.0	93.0	89.8	-6.35	-5,129.2	145.7	2,988.3	2,900.0	88.36	33.820	
15,900.0	10,601.0	12,913.7	7,630.0	94.5	91.4	-6.35	-5,229.2	146.6	2,988.3	2,898.4	89.90	33.239	
16,000.0	10,601.0	13,013.7	7,630.0	96.0	92.9	-6.35	-5,329.2	147.4	2,988.3	2,896.9	91.45	32.676	
16,100.0	10,601.0	13,113.7	7,630.0	97.5	94.5	-6.35	-5,429.2	148.2	2,988.3	2,895.3	93.00	32.132	
16,200.0	10,601.0	13,213.7	7,630.0	99.1	96.1	-6.35	-5,529.1	149.0	2,988.3	2,893.8	94.55	31.604	
16,300.0	10,601.0	13,313.7	7,630.0	100.6	97.7	-6.35	-5,629.1	149.8	2,988.3	2,892.2	96.11	31.094	
16,400.0	10,601.0	13,413.7	7,630.0	102.1	99.3	-6.35	-5,729.1	150.6	2,988.3	2,890.7	97.66	30.599	
16,500.0	10,601.0	13,513.7	7,630.0	103.7	100.9	-6.35	-5,829.1	151.5	2,988.3	2,889.1	99.22	30.119	
16,600.0	10,601.0	13,613.7	7,630.0	105.2	102.5	-6.35	-5,929.1	152.3	2,988.3	2,887.5	100.78	29.653	
16,700.0	10,601.0	13,713.7	7,630.0	106.7	104.1	-6.35	-6,029.1	153.1	2,988.3	2,886.0	102.33	29.201	
16,800.0	10,601.0	13,813.7	7,630.0	108.3	105.7	-6.35	-6,129.1	153.9	2,988.3	2,884.4	103.90	28.763	
16,900.0	10,601.0	13,913.7	7,630.0	109.8	107.3	-6.35	-6,229.1	154.7	2,988.3	2,882.9	105.46	28.337	
17,000.0	10,601.0	14,013.7	7,630.0	111.4	108.9	-6.35	-6,329.1	155.6	2,988.3	2,881.3	107.02	27.923	
17,100.0	10,601.0	14,113.7	7,630.0	113.0	110.5	-6.35	-6,429.1	156.4	2,988.3	2,879.7	108.58	27.521	
17,200.0	10,601.0	14,213.7	7,630.0	114.5	112.1	-6.35	-6,529.1	157.2	2,988.3	2,878.2	110.15	27.130	
17,300.0	10,601.0	14,313.7	7,630.0	116.1	113.7	-6.35	-6,629.1	158.0	2,988.3	2,876.6	111.71	26.750	
17,400.0	10,601.0	14,413.7	7,630.0	117.6	115.3	-6.35	-6,729.1	158.8	2,988.3	2,875.0	113.28	26.379	
17,500.0	10,601.0	14,513.7	7,630.0	119.2	116.9	-6.35	-6,829.1	159.7	2,988.3	2,873.5	114.85	26.019	
17,600.0	10,601.0	14,613.7	7,630.0	120.8	118.5	-6.35	-6,929.1	160.5	2,988.3	2,871.9	116.42	25.669	
17,700.0	10,601.0	14,713.7	7,630.0	122.3	120.1	-6.35	-7,029.1	161.3	2,988.3	2,870.3	117.99	25.327	
17,800.0	10,601.0	14,813.7	7,630.0	123.9	121.7	-6.35	-7,129.1	162.1	2,988.3	2,868.7	119.56	24.994	
17,900.0	10,601.0	14,913.7	7,630.0	125.5	123.3	-6.35	-7,229.1	162.9	2,988.3	2,867.2	121.13	24.670	
18,000.0	10,601.0	15,013.7	7,630.0	127.1	124.9	-6.35	-7,329.1	163.7	2,988.3	2,865.6	122.70	24.354	
18,100.0	10,601.0	15,113.7	7,630.0	128.6	126.5	-6.34	-7,429.1	164.6	2,988.3	2,864.0	124.28	24.046	
18,200.0	10,601.0	15,213.7	7,630.0	130.2	128.2	-6.34	-7,529.1	165.4	2,988.3	2,862.5	125.85	23.745	
18,300.0	10,601.0	15,313.7	7,630.0	131.8	129.8	-6.34	-7,629.1	166.2	2,988.3	2,860.9	127.42	23.452	
18,400.0	10,601.0	15,413.7	7,630.0	133.4	131.4	-6.34	-7,729.1	167.0	2,988.3	2,859.3	129.00	23.165	
18,500.0	10,601.0	15,513.7	7,630.0	135.0	133.0	-6.34	-7,829.1	167.8	2,988.3	2,857.7	130.58	22.886	
18,600.0	10,601.0	15,613.7	7,630.0	136.6	134.6	-6.34	-7,929.1	168.7	2,988.3	2,856.1	132.15	22.613	
18,700.0	10,601.0	15,713.7	7,630.0	138.1	136.2	-6.34	-8,029.1	169.5	2,988.3	2,854.6	133.73	22.346	
18,800.0	10,601.0	15,813.7	7,630.0	139.7	137.9	-6.34	-8,129.1	170.3	2,988.3	2,853.0	135.31	22.085	
18,900.0	10,601.0	15,913.7	7,630.0	141.3	139.5	-6.34	-8,229.1	171.1	2,988.3	2,851.4	136.88	21.831	
19,000.0	10,601.0	16,013.7	7,630.0	142.9	141.1	-6.34	-8,329.1	171.9	2,988.3	2,849.8	138.46	21.582	
19,100.0	10,601.0	16,113.7	7,630.0	144.5	142.7	-6.34	-8,429.1	172.8	2,988.3	2,848.3	140.04	21.338	
19,200.0	10,601.0	16,213.7	7,630.0	146.1	144.4	-6.34	-8,529.0	173.6	2,988.3	2,846.7	141.62	21.100	
19,300.0	10,601.0	16,313.7	7,630.0	147.7	146.0	-6.34	-8,629.0	174.4	2,988.3	2,845.1	143.20	20.868	
19,400.0	10,601.0	16,413.7	7,630.0	149.3	147.6	-6.34	-8,729.0	175.2	2,988.3	2,843.5	144.78	20.640	
19,500.0	10,601.0	16,513.7	7,630.0	150.9	149.2	-6.34	-8,829.0	176.0	2,988.3	2,841.9	146.37	20.417	
19,600.0	10,601.0	16,613.7	7,630.0	152.5	150.8	-6.34	-8,929.0	176.8	2,988.3	2,840.3	147.95	20.198	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #023H - 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
19,700.0	10,601.0	16,713.7	7,630.0	154.1	152.5	-6.34	-9,029.0	177.7	2,988.3	2,838.8	149.53	19.985	
19,800.0	10,601.0	16,813.7	7,630.0	155.7	154.1	-6.34	-9,129.0	178.5	2,988.3	2,837.2	151.11	19.775	
19,900.0	10,601.0	16,913.7	7,630.0	157.3	155.7	-6.34	-9,229.0	179.3	2,988.3	2,835.6	152.69	19.570	
20,000.0	10,601.0	17,013.7	7,630.0	158.9	157.4	-6.34	-9,329.0	180.1	2,988.3	2,834.0	154.28	19.369	
20,100.0	10,601.0	17,113.7	7,630.0	160.5	159.0	-6.34	-9,429.0	180.9	2,988.3	2,832.4	155.86	19.173	
20,200.0	10,601.0	17,213.7	7,630.0	162.1	160.6	-6.34	-9,529.0	181.8	2,988.3	2,830.8	157.45	18.980	
20,300.0	10,601.0	17,313.7	7,630.0	163.7	162.2	-6.34	-9,629.0	182.6	2,988.3	2,829.3	159.03	18.791	
20,400.0	10,601.0	17,413.7	7,630.0	165.3	163.9	-6.34	-9,729.0	183.4	2,988.3	2,827.7	160.62	18.605	
20,500.0	10,601.0	17,513.7	7,630.0	167.0	165.5	-6.34	-9,829.0	184.2	2,988.3	2,826.1	162.20	18.423	
20,600.0	10,601.0	17,613.7	7,630.0	168.6	167.1	-6.34	-9,929.0	185.0	2,988.3	2,824.5	163.79	18.245	
20,700.0	10,601.0	17,713.7	7,630.0	170.2	168.8	-6.34	-10,029.0	185.9	2,988.3	2,822.9	165.37	18.070	
20,800.0	10,601.0	17,813.7	7,630.0	171.8	170.4	-6.34	-10,129.0	186.7	2,988.3	2,821.3	166.96	17.898	
20,900.0	10,601.0	17,913.7	7,630.0	173.4	172.0	-6.34	-10,229.0	187.5	2,988.3	2,819.7	168.54	17.730	
21,000.0	10,601.0	18,013.7	7,630.0	175.0	173.7	-6.34	-10,329.0	188.3	2,988.3	2,818.2	170.13	17.565	
21,100.0	10,601.0	18,113.7	7,630.0	176.6	175.3	-6.34	-10,429.0	189.1	2,988.3	2,816.6	171.72	17.402	
21,200.0	10,601.0	18,213.7	7,630.0	178.2	176.9	-6.34	-10,529.0	190.0	2,988.3	2,815.0	173.31	17.243	
21,300.0	10,601.0	18,313.7	7,630.0	179.9	178.6	-6.34	-10,629.0	190.8	2,988.3	2,813.4	174.89	17.086	
21,400.0	10,601.0	18,413.7	7,630.0	181.5	180.2	-6.34	-10,729.0	191.6	2,988.3	2,811.8	176.48	16.933	
21,500.0	10,601.0	18,513.7	7,630.0	183.1	181.8	-6.34	-10,829.0	192.4	2,988.3	2,810.2	178.07	16.782	
21,600.0	10,601.0	18,613.7	7,630.0	184.7	183.5	-6.34	-10,929.0	193.2	2,988.3	2,808.6	179.66	16.633	
21,700.0	10,601.0	18,713.7	7,630.0	186.3	185.1	-6.34	-11,029.0	194.0	2,988.3	2,807.0	181.25	16.487	
21,800.0	10,601.0	18,813.7	7,630.0	187.9	186.7	-6.34	-11,129.0	194.9	2,988.3	2,805.4	182.84	16.344	
21,900.0	10,601.0	18,913.7	7,630.0	189.6	188.4	-6.34	-11,229.0	195.7	2,988.3	2,803.9	184.42	16.203	
22,000.0	10,601.0	19,013.7	7,630.0	191.2	190.0	-6.34	-11,329.0	196.5	2,988.3	2,802.3	186.01	16.065	
22,100.0	10,601.0	19,113.7	7,630.0	192.8	191.6	-6.34	-11,429.0	197.3	2,988.3	2,800.7	187.60	15.929	
22,200.0	10,601.0	19,213.7	7,630.0	194.4	193.3	-6.34	-11,528.9	198.1	2,988.3	2,799.1	189.19	15.795	
22,300.0	10,601.0	19,313.7	7,630.0	196.1	194.9	-6.34	-11,628.9	199.0	2,988.3	2,797.5	190.78	15.663	
22,400.0	10,601.0	19,413.7	7,630.0	197.7	196.5	-6.34	-11,728.9	199.8	2,988.3	2,795.9	192.37	15.534	
22,500.0	10,601.0	19,513.7	7,630.0	199.3	198.2	-6.34	-11,828.9	200.6	2,988.3	2,794.3	193.96	15.406	
22,600.0	10,601.0	19,613.7	7,630.0	200.9	199.8	-6.34	-11,928.9	201.4	2,988.3	2,792.7	195.55	15.281	
22,700.0	10,601.0	19,713.7	7,630.0	202.5	201.5	-6.34	-12,028.9	202.2	2,988.3	2,791.1	197.15	15.158	
22,800.0	10,601.0	19,813.7	7,630.0	204.2	203.1	-6.34	-12,128.9	203.1	2,988.3	2,789.5	198.74	15.036	
22,900.0	10,601.0	19,913.7	7,630.0	205.8	204.7	-6.34	-12,228.9	203.9	2,988.3	2,787.9	200.33	14.917	
23,000.0	10,601.0	20,013.7	7,630.0	207.4	206.4	-6.34	-12,328.9	204.7	2,988.3	2,786.4	201.92	14.799	
23,083.3	10,601.0	20,097.1	7,630.0	208.6	207.7	-6.34	-12,412.2	205.4	2,988.3	2,785.3	202.93	14.726	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #103H - 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	2.0	-2.0	0.0	0.0	108.04	-29.4	90.2	94.8				
100.0	100.0	102.0	98.0	0.1	0.1	108.04	-29.4	90.2	94.8	94.6	0.26	359.962	
200.0	200.0	202.0	198.0	0.5	0.5	108.04	-29.4	90.2	94.8	93.9	0.98	96.736	
300.0	300.0	302.0	298.0	0.8	0.9	108.04	-29.4	90.2	94.8	93.1	1.70	55.876	
400.0	400.0	402.0	398.0	1.2	1.2	108.04	-29.4	90.2	94.8	92.4	2.41	39.283	
500.0	500.0	502.0	498.0	1.6	1.6	108.04	-29.4	90.2	94.8	91.7	3.13	30.289	
600.0	600.0	602.0	598.0	1.9	1.9	108.04	-29.4	90.2	94.8	91.0	3.85	24.646	
700.0	700.0	702.0	698.0	2.3	2.3	108.04	-29.4	90.2	94.8	90.3	4.57	20.775	
800.0	800.0	802.0	798.0	2.6	2.6	108.04	-29.4	90.2	94.8	89.6	5.28	17.955	
900.0	900.0	902.0	898.0	3.0	3.0	108.04	-29.4	90.2	94.8	88.8	6.00	15.810	
1,000.0	1,000.0	1,002.0	998.0	3.4	3.4	108.04	-29.4	90.2	94.8	88.1	6.72	14.122	
1,100.0	1,100.0	1,102.0	1,098.0	3.7	3.7	108.04	-29.4	90.2	94.8	87.4	7.43	12.760	
1,200.0	1,200.0	1,202.0	1,198.0	4.1	4.1	108.04	-29.4	90.2	94.8	86.7	8.15	11.637	
1,300.0	1,300.0	1,302.0	1,298.0	4.4	4.4	108.04	-29.4	90.2	94.8	86.0	8.87	10.696	
1,400.0	1,400.0	1,402.0	1,398.0	4.8	4.8	108.04	-29.4	90.2	94.8	85.3	9.58	9.896	
1,500.0	1,500.0	1,502.0	1,498.0	5.1	5.2	108.04	-29.4	90.2	94.8	84.5	10.30	9.207	
1,600.0	1,600.0	1,602.0	1,598.0	5.5	5.5	108.04	-29.4	90.2	94.8	83.8	11.02	8.608	
1,700.0	1,700.0	1,702.0	1,698.0	5.9	5.9	108.04	-29.4	90.2	94.8	83.1	11.73	8.082	
1,800.0	1,800.0	1,802.0	1,798.0	6.2	6.2	108.04	-29.4	90.2	94.8	82.4	12.45	7.617	
1,900.0	1,900.0	1,902.0	1,898.0	6.6	6.6	108.04	-29.4	90.2	94.8	81.7	13.17	7.202	
2,000.0	2,000.0	1,998.0	1,998.0	6.9	6.9	108.04	-29.4	90.2	94.8	81.0	13.87	6.837	
2,100.0	2,100.0	2,099.5	2,099.5	7.3	7.3	107.82	-28.8	89.6	94.1	79.5	14.59	6.448	
2,200.0	2,200.0	2,200.9	2,200.9	7.7	7.7	107.10	-27.0	87.6	91.7	76.4	15.30	5.994	
2,300.0	2,300.0	2,302.3	2,302.1	8.0	8.0	105.82	-23.9	84.4	87.8	71.8	16.01	5.484	
2,400.0	2,400.0	2,403.4	2,403.1	8.4	8.4	103.83	-19.6	79.8	82.4	65.7	16.71	4.929	
2,500.0	2,500.0	2,504.3	2,503.6	8.7	8.7	100.84	-14.2	74.0	75.6	58.2	17.41	4.340	
2,600.0	2,600.0	2,604.8	2,603.7	9.1	9.1	96.41	-7.5	66.9	67.6	49.5	18.11	3.732	
2,700.0	2,700.0	2,705.0	2,703.3	9.4	9.5	89.70	0.3	58.6	58.9	40.0	18.82	3.127	
2,800.0	2,800.0	2,804.8	2,802.2	9.8	9.8	79.29	9.3	49.1	50.1	30.6	19.55	2.563	
2,900.0	2,900.0	2,903.8	2,900.2	10.2	10.2	64.38	18.7	39.0	43.3	23.0	20.32	2.133	
3,000.0	3,000.0	3,002.8	2,998.3	10.5	10.6	45.83	28.2	29.0	40.4	19.3	21.09	1.916	
3,019.5	3,019.5	3,022.1	3,017.4	10.6	10.6	30.90	30.0	27.0	40.4	19.1	21.24	1.900	CC, ES
3,100.0	3,100.0	3,101.9	3,096.4	10.9	10.9	15.91	37.6	18.9	41.3	19.5	21.81	1.893	SF
3,200.0	3,200.0	3,201.1	3,194.6	11.2	11.3	-0.48	47.1	8.9	44.5	22.0	22.49	1.980	
3,300.0	3,299.9	3,300.4	3,292.9	11.6	11.7	-14.25	56.5	-1.2	49.1	26.0	23.16	2.122	
3,400.0	3,399.7	3,400.4	3,391.2	12.0	12.1	-25.92	66.0	-11.2	54.5	30.7	23.82	2.288	
3,500.0	3,499.4	3,501.1	3,489.5	12.3	12.5	-35.69	75.5	-21.3	61.0	36.5	24.49	2.491	
3,600.0	3,599.2	3,601.8	3,587.9	12.7	12.9	-43.42	84.9	-31.4	68.9	43.7	25.18	2.737	
3,700.0	3,698.9	3,702.5	3,686.2	13.0	13.3	-49.48	94.4	-41.5	77.8	51.9	25.89	3.007	
3,800.0	3,798.7	3,803.1	3,784.6	13.4	13.7	-54.27	103.9	-51.5	87.4	60.8	26.60	3.287	
3,900.0	3,898.5	3,896.2	3,882.9	13.8	14.0	-58.08	113.3	-61.6	97.5	70.2	27.29	3.573	
4,000.0	3,998.2	4,004.5	3,981.2	14.1	14.5	-61.18	122.8	-71.7	107.9	79.9	28.04	3.849	
4,100.0	4,098.0	4,094.8	4,079.6	14.5	14.8	-63.72	132.3	-81.7	118.6	89.9	28.73	4.129	
4,200.0	4,197.7	4,194.1	4,177.9	14.8	15.2	-65.85	141.7	-91.8	129.5	100.0	29.46	4.396	
4,300.0	4,297.5	4,306.6	4,276.2	15.2	15.7	-67.64	151.2	-101.9	140.5	110.3	30.23	4.648	
4,400.0	4,397.2	4,407.3	4,374.6	15.6	16.1	-69.17	160.7	-111.9	151.7	120.7	30.97	4.898	
4,500.0	4,497.0	4,508.0	4,472.9	15.9	16.5	-70.49	170.1	-122.0	162.9	131.2	31.70	5.139	
4,600.0	4,596.8	4,591.3	4,571.2	16.3	16.8	-71.64	179.6	-132.1	174.2	141.8	32.37	5.382	
4,700.0	4,696.5	4,709.4	4,669.6	16.7	17.3	-72.65	189.1	-142.1	185.6	152.4	33.18	5.594	
4,800.0	4,796.3	4,789.9	4,767.9	17.0	17.6	-73.54	198.5	-152.2	197.0	163.2	33.84	5.822	
4,900.0	4,896.0	4,889.2	4,866.2	17.4	18.0	-74.33	208.0	-162.3	208.5	173.9	34.57	6.030	
5,000.0	4,995.8	4,988.5	4,964.6	17.8	18.4	-75.04	217.5	-172.3	220.0	184.7	35.31	6.230	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #103H - 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
5,100.0	5,095.5	5,087.8	5,062.9	18.1	18.8	-75.69	226.9	-182.4	231.5	195.5	36.05	6.423	
5,200.0	5,195.3	5,187.1	5,161.2	18.5	19.2	-76.27	236.4	-192.5	243.1	206.3	36.78	6.608	
5,300.0	5,295.0	5,288.3	5,261.5	18.9	19.7	-76.81	246.0	-202.7	254.5	217.0	37.55	6.778	
5,400.0	5,394.8	5,394.6	5,367.1	19.2	20.1	-77.50	254.5	-211.8	264.1	225.7	38.38	6.880	
5,500.0	5,494.6	5,501.3	5,473.3	19.6	20.5	-78.35	261.1	-218.7	271.1	231.9	39.19	6.917	
5,600.0	5,594.3	5,608.2	5,580.1	20.0	20.9	-79.39	265.6	-223.6	275.5	235.5	39.97	6.893	
5,700.0	5,694.1	5,715.2	5,687.0	20.3	21.3	-80.63	268.1	-226.2	277.4	236.7	40.72	6.813	
5,800.0	5,793.8	5,820.1	5,791.8	20.7	21.6	-82.06	268.6	-226.7	277.0	235.6	41.46	6.683	
5,900.0	5,893.6	5,919.8	5,891.6	21.1	22.0	-83.49	268.6	-226.7	276.2	234.0	42.19	6.546	
6,000.0	5,993.3	6,019.6	5,991.3	21.4	22.3	-84.93	268.6	-226.7	275.5	232.5	42.92	6.418	
6,100.0	6,093.1	6,119.3	6,091.1	21.8	22.6	-86.37	268.6	-226.7	274.9	231.3	43.66	6.298	
6,200.0	6,192.9	6,219.1	6,190.9	22.2	23.0	-87.82	268.6	-226.7	274.6	230.2	44.39	6.185	
6,300.0	6,292.6	6,318.9	6,290.6	22.5	23.3	-89.28	268.6	-226.7	274.4	229.3	45.13	6.081	
6,349.8	6,342.3	6,368.6	6,340.3	22.7	23.5	-90.00	268.6	-226.7	274.4	228.9	45.49	6.031	
6,400.0	6,392.4	6,418.6	6,390.4	22.9	23.6	-90.73	268.6	-226.7	274.4	228.5	45.86	5.983	
6,500.0	6,492.1	6,518.4	6,490.1	23.3	24.0	-92.18	268.6	-226.7	274.6	228.0	46.60	5.893	
6,600.0	6,591.9	6,618.1	6,589.9	23.6	24.3	-93.63	268.6	-226.7	274.9	227.6	47.33	5.808	
6,700.0	6,691.6	6,717.9	6,689.6	24.0	24.7	-95.08	268.6	-226.7	275.5	227.4	48.07	5.731	
6,800.0	6,791.4	6,817.6	6,789.4	24.4	25.0	-96.51	268.6	-226.7	276.2	227.4	48.80	5.659	
6,900.0	6,891.1	6,917.4	6,889.1	24.7	25.4	-97.94	268.6	-226.7	277.0	227.5	49.54	5.592	
7,000.0	6,990.9	7,017.2	6,988.9	25.1	25.7	-99.36	268.6	-226.7	278.1	227.8	50.28	5.531	
7,020.0	7,010.8	7,037.1	7,008.8	25.2	25.8	-99.65	268.6	-226.7	278.3	227.9	50.42	5.520	
7,100.0	7,090.7	7,117.0	7,088.7	25.5	26.0	-100.62	268.6	-226.7	279.2	228.2	51.01	5.473	
7,200.0	7,190.6	7,216.9	7,188.6	25.8	26.4	-101.35	268.6	-226.7	279.8	228.1	51.73	5.410	
7,286.6	7,277.3	7,303.5	7,275.3	26.1	26.7	-90.41	268.6	-226.7	280.0	227.7	52.34	5.351	
7,300.0	7,290.6	7,316.9	7,288.6	26.2	26.7	-90.41	268.6	-226.7	280.0	227.6	52.43	5.341	
7,400.0	7,390.6	7,416.9	7,388.6	26.5	27.1	-90.41	268.6	-226.7	280.0	226.9	53.13	5.270	
7,500.0	7,490.6	7,516.9	7,488.6	26.9	27.4	-90.41	268.6	-226.7	280.0	226.2	53.84	5.202	
7,508.0	7,498.6	7,524.9	7,496.6	26.9	27.4	-90.41	268.6	-226.7	280.0	226.1	53.89	5.196	
7,600.0	7,590.6	7,616.6	7,588.3	27.3	27.7	-90.97	265.8	-226.7	280.1	225.5	54.53	5.136	
7,700.0	7,690.6	7,712.9	7,682.8	27.6	28.0	-94.53	248.4	-226.7	280.9	225.7	55.19	5.090	
7,800.0	7,790.6	7,801.2	7,765.9	28.0	28.2	-100.50	218.7	-226.6	285.5	229.9	55.68	5.128	
7,900.0	7,890.6	7,878.8	7,834.4	28.3	28.4	-107.52	182.3	-226.4	298.3	242.7	55.56	5.369	
8,000.0	7,990.6	7,945.3	7,888.7	28.7	28.5	-114.36	144.0	-226.3	322.8	268.4	54.35	5.939	
8,100.0	8,090.6	8,000.0	7,929.8	29.0	28.5	-120.19	108.0	-226.2	360.2	308.3	51.97	6.932	
8,200.0	8,190.6	8,050.0	7,964.3	29.4	28.6	-125.45	71.7	-226.1	409.8	360.7	49.13	8.340	
8,300.0	8,290.6	8,088.4	7,988.5	29.7	28.6	-129.31	41.9	-226.0	469.4	423.5	45.91	10.225	
8,400.0	8,390.6	8,122.0	8,008.0	30.1	28.6	-132.53	14.6	-225.9	537.0	494.1	42.92	12.512	
8,500.0	8,490.6	8,150.0	8,023.0	30.4	28.7	-135.06	-9.1	-225.8	610.7	570.4	40.21	15.187	
8,600.0	8,590.6	8,175.1	8,035.5	30.8	28.7	-137.22	-30.9	-225.7	689.0	651.1	37.92	18.171	
8,700.0	8,690.6	8,200.0	8,046.9	31.2	28.7	-139.24	-53.0	-225.6	770.9	734.9	36.09	21.360	
8,800.0	8,790.6	8,214.8	8,053.2	31.5	28.7	-140.38	-66.3	-225.6	855.7	821.4	34.26	24.979	
8,900.0	8,890.6	8,230.9	8,059.7	31.9	28.7	-141.59	-81.1	-225.5	942.7	909.8	32.84	28.704	
9,000.0	8,990.6	8,250.0	8,066.8	32.2	28.7	-142.96	-98.8	-225.5	1,031.5	999.6	31.81	32.421	
9,100.0	9,090.6	8,250.0	8,066.8	32.6	28.7	-142.96	-98.8	-225.5	1,121.7	1,091.3	30.42	36.879	
9,200.0	9,190.6	8,269.2	8,073.4	32.9	28.7	-144.27	-116.8	-225.4	1,213.1	1,183.2	29.82	40.677	
9,300.0	9,290.6	8,279.3	8,076.6	33.3	28.7	-144.93	-126.4	-225.4	1,305.5	1,276.3	29.13	44.815	
9,400.0	9,390.6	8,300.0	8,082.7	33.6	28.8	-146.24	-146.2	-225.3	1,398.9	1,370.0	28.84	48.500	
9,500.0	9,490.6	8,300.0	8,082.7	34.0	28.8	-146.24	-146.2	-225.3	1,492.6	1,464.5	28.16	53.004	
9,600.0	9,590.6	8,300.0	8,082.7	34.3	28.8	-146.24	-146.2	-225.3	1,587.2	1,559.6	27.61	57.482	
9,700.0	9,690.6	8,300.0	8,082.7	34.7	28.8	-146.24	-146.2	-225.3	1,682.4	1,655.2	27.18	61.909	
9,800.0	9,790.6	8,300.0	8,082.7	35.1	28.8	-146.24	-146.2	-225.3	1,778.1	1,751.2	26.83	66.268	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #103H - 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
9,900.0	9,890.6	8,323.4	8,088.7	35.4	28.8	-147.63	-168.8	-225.2	1,873.6	1,846.6	26.97	69.474	
10,000.0	9,990.6	8,328.7	8,089.9	35.8	28.8	-147.94	-174.0	-225.2	1,969.8	1,943.0	26.83	73.410	
10,037.4	10,028.0	8,330.6	8,090.4	35.9	28.8	-148.04	-175.9	-225.2	2,005.9	1,979.1	26.79	74.861	
10,050.0	10,040.6	8,331.3	8,090.5	35.9	28.8	14.64	-176.5	-225.2	2,018.0	1,991.3	26.78	75.356	
10,100.0	10,090.5	8,350.0	8,094.4	36.1	28.9	10.66	-194.8	-225.1	2,065.7	2,038.8	26.94	76.687	
10,150.0	10,139.9	8,350.0	8,094.4	36.2	28.9	8.72	-194.8	-225.1	2,111.6	2,084.8	26.75	78.929	
10,200.0	10,188.5	8,350.0	8,094.4	36.4	28.9	7.39	-194.8	-225.1	2,155.8	2,129.2	26.53	81.247	
10,250.0	10,235.8	8,350.0	8,094.4	36.5	28.9	6.43	-194.8	-225.1	2,198.1	2,171.8	26.29	83.620	
10,300.0	10,281.5	8,350.0	8,094.4	36.6	28.9	5.71	-194.8	-225.1	2,238.4	2,212.4	26.02	86.028	
10,350.0	10,325.4	8,350.0	8,094.4	36.7	28.9	5.16	-194.8	-225.1	2,276.4	2,250.7	25.74	88.444	
10,400.0	10,366.9	8,350.0	8,094.4	36.9	28.9	4.72	-194.8	-225.1	2,312.0	2,286.5	25.45	90.838	
10,450.0	10,405.9	8,373.6	8,098.4	37.0	29.0	4.14	-218.1	-225.0	2,344.4	2,318.9	25.42	92.209	
10,500.0	10,442.0	8,400.0	8,101.8	37.1	29.1	3.63	-244.2	-225.0	2,374.6	2,349.2	25.41	93.465	
10,550.0	10,474.9	8,400.0	8,101.8	37.2	29.1	3.44	-244.2	-225.0	2,401.1	2,376.0	25.10	95.645	
10,600.0	10,504.5	8,400.0	8,101.8	37.3	29.1	3.28	-244.2	-225.0	2,424.7	2,399.9	24.83	97.661	
10,650.0	10,530.4	8,400.0	8,101.8	37.4	29.1	3.16	-244.2	-225.0	2,445.2	2,420.6	24.58	99.462	
10,700.0	10,552.5	8,400.0	8,101.8	37.5	29.1	3.06	-244.2	-225.0	2,462.6	2,438.2	24.38	100.998	
10,750.0	10,570.6	8,422.4	8,103.7	37.6	29.1	2.82	-266.6	-224.9	2,476.2	2,451.8	24.37	101.613	
10,800.0	10,584.6	8,450.0	8,104.9	37.7	29.2	2.58	-294.1	-224.8	2,486.9	2,462.5	24.40	101.914	
10,850.0	10,594.3	8,450.0	8,104.9	37.8	29.2	2.55	-294.1	-224.8	2,493.5	2,469.2	24.31	102.575	
10,900.0	10,599.7	8,450.0	8,104.9	37.9	29.2	2.54	-294.1	-224.8	2,496.7	2,472.5	24.28	102.829	
10,937.4	10,601.0	8,455.8	8,104.9	38.0	29.2	2.50	-299.9	-224.8	2,496.9	2,472.6	24.32	102.670	
11,000.0	10,601.0	8,503.0	8,105.0	38.2	29.4	2.26	-341.1	-224.5	2,496.1	2,471.5	24.55	101.669	
11,100.0	10,601.0	8,606.1	8,105.0	38.5	29.9	1.73	-438.0	-223.7	2,495.2	2,470.1	25.09	99.440	
11,200.0	10,601.0	8,708.4	8,105.0	38.9	30.4	1.26	-535.7	-222.9	2,494.6	2,468.9	25.74	96.912	
11,300.0	10,601.0	8,790.0	8,105.0	39.4	30.8	0.87	-634.1	-222.1	2,494.3	2,467.9	26.38	94.535	
11,400.0	10,601.0	8,888.9	8,105.0	39.9	31.5	0.54	-733.0	-221.2	2,494.1	2,466.9	27.19	91.725	
11,500.0	10,601.0	8,988.3	8,105.0	40.4	32.2	0.29	-832.4	-220.4	2,494.0	2,466.0	28.07	88.841	
11,600.0	10,601.0	9,088.0	8,105.0	41.0	33.0	0.12	-932.1	-219.6	2,494.0	2,465.0	29.02	85.939	
11,700.0	10,601.0	9,187.9	8,105.0	41.7	33.8	0.03	-1,032.0	-218.8	2,494.0	2,464.0	30.03	83.060	
11,764.0	10,601.0	9,251.9	8,105.0	42.1	34.4	0.01	-1,096.0	-218.2	2,494.0	2,463.3	30.70	81.241	
11,766.0	10,601.0	9,253.9	8,105.0	42.2	34.4	0.01	-1,098.0	-218.2	2,494.0	2,463.3	30.72	81.185	
11,800.0	10,601.0	9,287.9	8,105.0	42.4	34.7	0.01	-1,132.0	-217.9	2,494.0	2,462.9	31.08	80.236	
11,900.0	10,601.0	9,387.9	8,105.0	43.2	35.6	0.01	-1,232.0	-217.1	2,494.0	2,461.8	32.18	77.498	
12,000.0	10,601.0	9,487.9	8,105.0	44.0	36.6	0.01	-1,332.0	-216.3	2,494.0	2,460.7	33.32	74.858	
12,100.0	10,601.0	9,587.9	8,105.0	44.8	37.7	0.01	-1,432.0	-215.5	2,494.0	2,459.5	34.48	72.324	
12,200.0	10,601.0	9,687.9	8,105.0	45.7	38.8	0.01	-1,532.0	-214.6	2,494.0	2,458.3	35.68	69.898	
12,300.0	10,601.0	9,787.9	8,105.0	46.6	39.9	0.01	-1,632.0	-213.8	2,494.0	2,457.1	36.90	67.580	
12,400.0	10,601.0	9,887.9	8,105.0	47.6	41.0	0.01	-1,732.0	-213.0	2,494.0	2,455.8	38.15	65.369	
12,500.0	10,601.0	9,987.9	8,105.0	48.6	42.2	0.01	-1,832.0	-212.1	2,494.0	2,454.6	39.42	63.263	
12,600.0	10,601.0	10,087.9	8,105.0	49.7	43.5	0.01	-1,932.0	-211.3	2,494.0	2,453.3	40.71	61.258	
12,700.0	10,601.0	10,187.9	8,105.0	50.8	44.7	0.01	-2,032.0	-210.5	2,494.0	2,452.0	42.02	59.350	
12,800.0	10,601.0	10,287.9	8,105.0	51.9	46.0	0.01	-2,132.0	-209.7	2,494.0	2,450.7	43.35	57.535	
12,900.0	10,601.0	10,387.9	8,105.0	53.0	47.3	0.01	-2,232.0	-208.8	2,494.0	2,449.3	44.69	55.810	
13,000.0	10,601.0	10,487.9	8,105.0	54.2	48.6	0.01	-2,332.0	-208.0	2,494.0	2,448.0	46.04	54.168	
13,100.0	10,601.0	10,587.9	8,105.0	55.4	49.9	0.01	-2,432.0	-207.2	2,494.0	2,446.6	47.41	52.606	
13,200.0	10,601.0	10,687.9	8,105.0	56.6	51.3	0.01	-2,532.0	-206.4	2,494.0	2,445.2	48.79	51.119	
13,300.0	10,601.0	10,787.9	8,105.0	57.8	52.7	0.01	-2,632.0	-205.5	2,494.0	2,443.8	50.18	49.703	
13,400.0	10,601.0	10,887.9	8,105.0	59.1	54.1	0.01	-2,731.9	-204.7	2,494.0	2,442.4	51.58	48.354	
13,500.0	10,601.0	10,987.9	8,105.0	60.3	55.5	0.01	-2,831.9	-203.9	2,494.0	2,441.0	52.99	47.068	
13,600.0	10,601.0	11,087.9	8,105.0	61.6	56.9	0.01	-2,931.9	-203.0	2,494.0	2,439.6	54.41	45.841	
13,700.0	10,601.0	11,187.9	8,105.0	62.9	58.3	0.01	-3,031.9	-202.2	2,494.0	2,438.2	55.83	44.671	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #103H - 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
13,800.0	10,601.0	11,287.9	8,105.0	64.3	59.7	0.01	-3,131.9	-201.4	2,494.0	2,436.7	57.26	43.553	
13,900.0	10,601.0	11,387.9	8,105.0	65.6	61.2	0.01	-3,231.9	-200.6	2,494.0	2,435.3	58.70	42.485	
14,000.0	10,601.0	11,487.9	8,105.0	66.9	62.7	0.01	-3,331.9	-199.7	2,494.0	2,433.8	60.15	41.464	
14,100.0	10,601.0	11,587.9	8,105.0	68.3	64.1	0.01	-3,431.9	-198.9	2,494.0	2,432.4	61.60	40.486	
14,200.0	10,601.0	11,687.9	8,105.0	69.7	65.6	0.01	-3,531.9	-198.1	2,494.0	2,430.9	63.06	39.551	
14,300.0	10,601.0	11,787.9	8,105.0	71.1	67.1	0.01	-3,631.9	-197.3	2,494.0	2,429.5	64.52	38.654	
14,400.0	10,601.0	11,887.9	8,105.0	72.5	68.6	0.01	-3,731.9	-196.4	2,494.0	2,428.0	65.99	37.794	
14,500.0	10,601.0	11,987.9	8,105.0	73.9	70.1	0.01	-3,831.9	-195.6	2,494.0	2,426.5	67.46	36.970	
14,600.0	10,601.0	12,087.9	8,105.0	75.3	71.6	0.01	-3,931.9	-194.8	2,494.0	2,425.1	68.94	36.178	
14,700.0	10,601.0	12,187.9	8,105.0	76.8	73.1	0.01	-4,031.9	-194.0	2,494.0	2,423.6	70.42	35.418	
14,800.0	10,601.0	12,287.9	8,105.0	78.2	74.6	0.01	-4,131.9	-193.1	2,494.0	2,422.1	71.90	34.687	
14,900.0	10,601.0	12,387.9	8,105.0	79.6	76.2	0.01	-4,231.9	-192.3	2,494.0	2,420.6	73.39	33.984	
15,000.0	10,601.0	12,487.9	8,105.0	81.1	77.7	0.01	-4,331.9	-191.5	2,494.0	2,419.1	74.88	33.307	
15,100.0	10,601.0	12,587.9	8,105.0	82.6	79.2	0.01	-4,431.9	-190.6	2,494.0	2,417.6	76.37	32.656	
15,200.0	10,601.0	12,687.9	8,105.0	84.0	80.8	0.01	-4,531.9	-189.8	2,494.0	2,416.1	77.87	32.028	
15,300.0	10,601.0	12,787.9	8,105.0	85.5	82.3	0.01	-4,631.9	-189.0	2,494.0	2,414.6	79.37	31.423	
15,400.0	10,601.0	12,887.9	8,105.0	87.0	83.9	0.01	-4,731.9	-188.2	2,494.0	2,413.1	80.87	30.839	
15,500.0	10,601.0	12,987.9	8,105.0	88.5	85.4	0.01	-4,831.9	-187.3	2,494.0	2,411.6	82.37	30.276	
15,600.0	10,601.0	13,087.9	8,105.0	90.0	87.0	0.01	-4,931.9	-186.5	2,494.0	2,410.1	83.88	29.732	
15,700.0	10,601.0	13,187.9	8,105.0	91.5	88.5	0.01	-5,031.9	-185.7	2,494.0	2,408.6	85.39	29.207	
15,800.0	10,601.0	13,287.9	8,105.0	93.0	90.1	0.01	-5,131.9	-184.9	2,494.0	2,407.1	86.90	28.699	
15,900.0	10,601.0	13,387.9	8,105.0	94.5	91.7	0.01	-5,231.9	-184.0	2,494.0	2,405.6	88.42	28.208	
16,000.0	10,601.0	13,487.9	8,105.0	96.0	93.2	0.01	-5,331.9	-183.2	2,494.0	2,404.1	89.93	27.732	
16,100.0	10,601.0	13,587.9	8,105.0	97.5	94.8	0.01	-5,431.9	-182.4	2,494.0	2,402.6	91.45	27.272	
16,200.0	10,601.0	13,687.9	8,105.0	99.1	96.4	0.01	-5,531.9	-181.5	2,494.0	2,401.0	92.97	26.827	
16,300.0	10,601.0	13,787.9	8,105.0	100.6	98.0	0.00	-5,631.8	-180.7	2,494.0	2,399.5	94.49	26.395	
16,400.0	10,601.0	13,887.9	8,105.0	102.1	99.6	0.00	-5,731.8	-179.9	2,494.0	2,398.0	96.01	25.977	
16,500.0	10,601.0	13,987.9	8,105.0	103.7	101.1	0.00	-5,831.8	-179.1	2,494.0	2,396.5	97.53	25.571	
16,600.0	10,601.0	14,087.9	8,105.0	105.2	102.7	0.00	-5,931.8	-178.2	2,494.0	2,394.9	99.06	25.177	
16,700.0	10,601.0	14,187.9	8,105.0	106.7	104.3	0.00	-6,031.8	-177.4	2,494.0	2,393.4	100.58	24.795	
16,800.0	10,601.0	14,287.9	8,105.0	108.3	105.9	0.00	-6,131.8	-176.6	2,494.0	2,391.9	102.11	24.425	
16,900.0	10,601.0	14,387.9	8,105.0	109.8	107.5	0.00	-6,231.8	-175.8	2,494.0	2,390.4	103.64	24.064	
17,000.0	10,601.0	14,487.9	8,105.0	111.4	109.1	0.00	-6,331.8	-174.9	2,494.0	2,388.8	105.17	23.714	
17,100.0	10,601.0	14,587.9	8,105.0	113.0	110.7	0.00	-6,431.8	-174.1	2,494.0	2,387.3	106.70	23.374	
17,200.0	10,601.0	14,687.9	8,105.0	114.5	112.3	0.00	-6,531.8	-173.3	2,494.0	2,385.8	108.23	23.043	
17,300.0	10,601.0	14,787.9	8,105.0	116.1	113.9	0.00	-6,631.8	-172.5	2,494.0	2,384.2	109.77	22.721	
17,400.0	10,601.0	14,887.9	8,105.0	117.6	115.5	0.00	-6,731.8	-171.6	2,494.0	2,382.7	111.30	22.408	
17,500.0	10,601.0	14,987.9	8,105.0	119.2	117.1	0.00	-6,831.8	-170.8	2,494.0	2,381.2	112.83	22.103	
17,600.0	10,601.0	15,087.9	8,105.0	120.8	118.7	0.00	-6,931.8	-170.0	2,494.0	2,379.6	114.37	21.806	
17,700.0	10,601.0	15,187.9	8,105.0	122.3	120.3	0.00	-7,031.8	-169.1	2,494.0	2,378.1	115.91	21.517	
17,800.0	10,601.0	15,287.9	8,105.0	123.9	121.9	0.00	-7,131.8	-168.3	2,494.0	2,376.6	117.45	21.235	
17,900.0	10,601.0	15,387.9	8,105.0	125.5	123.5	0.00	-7,231.8	-167.5	2,494.0	2,375.0	118.98	20.961	
18,000.0	10,601.0	15,487.9	8,105.0	127.1	125.1	0.00	-7,331.8	-166.7	2,494.0	2,373.5	120.52	20.693	
18,100.0	10,601.0	15,587.9	8,105.0	128.6	126.7	0.00	-7,431.8	-165.8	2,494.0	2,371.9	122.06	20.432	
18,200.0	10,601.0	15,687.9	8,105.0	130.2	128.3	0.00	-7,531.8	-165.0	2,494.0	2,370.4	123.61	20.177	
18,300.0	10,601.0	15,787.9	8,105.0	131.8	129.9	0.00	-7,631.8	-164.2	2,494.0	2,368.9	125.15	19.929	
18,400.0	10,601.0	15,887.9	8,105.0	133.4	131.5	0.00	-7,731.8	-163.4	2,494.0	2,367.3	126.69	19.686	
18,500.0	10,601.0	15,987.9	8,105.0	135.0	133.1	0.00	-7,831.8	-162.5	2,494.0	2,365.8	128.23	19.449	
18,600.0	10,601.0	16,087.9	8,105.0	136.6	134.8	0.00	-7,931.8	-161.7	2,494.0	2,364.2	129.78	19.218	
18,700.0	10,601.0	16,187.9	8,105.0	138.1	136.4	0.00	-8,031.8	-160.9	2,494.0	2,362.7	131.32	18.992	
18,800.0	10,601.0	16,287.9	8,105.0	139.7	138.0	0.00	-8,131.8	-160.0	2,494.0	2,361.1	132.86	18.771	
18,900.0	10,601.0	16,387.9	8,105.0	141.3	139.6	0.00	-8,231.8	-159.2	2,494.0	2,359.6	134.41	18.555	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #103H - 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
19,000.0	10,601.0	16,487.9	8,105.0	142.9	141.2	0.00	-8,331.8	-158.4	2,494.0	2,358.0	135.96	18.344	
19,100.0	10,601.0	16,587.9	8,105.0	144.5	142.8	0.00	-8,431.8	-157.6	2,494.0	2,356.5	137.50	18.138	
19,200.0	10,601.0	16,687.9	8,105.0	146.1	144.5	0.00	-8,531.8	-156.7	2,494.0	2,354.9	139.05	17.936	
19,300.0	10,601.0	16,787.9	8,105.0	147.7	146.1	0.00	-8,631.7	-155.9	2,494.0	2,353.4	140.60	17.739	
19,400.0	10,601.0	16,887.9	8,105.0	149.3	147.7	0.00	-8,731.7	-155.1	2,494.0	2,351.9	142.15	17.545	
19,500.0	10,601.0	16,987.9	8,105.0	150.9	149.3	0.00	-8,831.7	-154.3	2,494.0	2,350.3	143.69	17.356	
19,600.0	10,601.0	17,087.9	8,105.0	152.5	150.9	0.00	-8,931.7	-153.4	2,494.0	2,348.8	145.24	17.171	
19,700.0	10,601.0	17,187.9	8,105.0	154.1	152.6	0.00	-9,031.7	-152.6	2,494.0	2,347.2	146.79	16.990	
19,800.0	10,601.0	17,287.9	8,105.0	155.7	154.2	0.00	-9,131.7	-151.8	2,494.0	2,345.7	148.34	16.813	
19,900.0	10,601.0	17,387.9	8,105.0	157.3	155.8	0.00	-9,231.7	-150.9	2,494.0	2,344.1	149.89	16.639	
20,000.0	10,601.0	17,487.9	8,105.0	158.9	157.4	0.00	-9,331.7	-150.1	2,494.0	2,342.6	151.44	16.468	
20,100.0	10,601.0	17,587.9	8,105.0	160.5	159.1	0.00	-9,431.7	-149.3	2,494.0	2,341.0	152.99	16.301	
20,200.0	10,601.0	17,687.9	8,105.0	162.1	160.7	0.00	-9,531.7	-148.5	2,494.0	2,339.5	154.54	16.138	
20,300.0	10,601.0	17,787.9	8,105.0	163.7	162.3	0.00	-9,631.7	-147.6	2,494.0	2,337.9	156.10	15.977	
20,400.0	10,601.0	17,887.9	8,105.0	165.3	163.9	0.00	-9,731.7	-146.8	2,494.0	2,336.4	157.65	15.820	
20,500.0	10,601.0	17,987.9	8,105.0	167.0	165.6	0.00	-9,831.7	-146.0	2,494.0	2,334.8	159.20	15.666	
20,600.0	10,601.0	18,087.9	8,105.0	168.6	167.2	0.00	-9,931.7	-145.2	2,494.0	2,333.2	160.75	15.514	
20,700.0	10,601.0	18,187.9	8,105.0	170.2	168.8	0.00	-10,031.7	-144.3	2,494.0	2,331.7	162.31	15.366	
20,800.0	10,601.0	18,287.9	8,105.0	171.8	170.4	0.00	-10,131.7	-143.5	2,494.0	2,330.1	163.86	15.220	
20,900.0	10,601.0	18,387.9	8,105.0	173.4	172.1	0.00	-10,231.7	-142.7	2,494.0	2,328.6	165.41	15.077	
21,000.0	10,601.0	18,487.9	8,105.0	175.0	173.7	0.00	-10,331.7	-141.9	2,494.0	2,327.0	166.97	14.937	
21,100.0	10,601.0	18,587.9	8,105.0	176.6	175.3	0.00	-10,431.7	-141.0	2,494.0	2,325.5	168.52	14.799	
21,200.0	10,601.0	18,687.9	8,105.0	178.2	177.0	0.00	-10,531.7	-140.2	2,494.0	2,323.9	170.08	14.664	
21,300.0	10,601.0	18,787.9	8,105.0	179.9	178.6	0.00	-10,631.7	-139.4	2,494.0	2,322.4	171.63	14.531	
21,400.0	10,601.0	18,887.9	8,105.0	181.5	180.2	0.00	-10,731.7	-138.5	2,494.0	2,320.8	173.19	14.401	
21,500.0	10,601.0	18,987.9	8,105.0	183.1	181.9	0.00	-10,831.7	-137.7	2,494.0	2,319.3	174.74	14.272	
21,600.0	10,601.0	19,087.9	8,105.0	184.7	183.5	0.00	-10,931.7	-136.9	2,494.0	2,317.7	176.30	14.147	
21,700.0	10,601.0	19,187.9	8,105.0	186.3	185.1	0.00	-11,031.7	-136.1	2,494.0	2,316.1	177.85	14.023	
21,800.0	10,601.0	19,287.9	8,105.0	187.9	186.8	0.00	-11,131.7	-135.2	2,494.0	2,314.6	179.41	13.901	
21,900.0	10,601.0	19,387.9	8,105.0	189.6	188.4	0.00	-11,231.7	-134.4	2,494.0	2,313.0	180.97	13.782	
22,000.0	10,601.0	19,487.9	8,105.0	191.2	190.0	0.00	-11,331.7	-133.6	2,494.0	2,311.5	182.52	13.664	
22,100.0	10,601.0	19,587.9	8,105.0	192.8	191.7	0.00	-11,431.7	-132.8	2,494.0	2,309.9	184.08	13.549	
22,200.0	10,601.0	19,687.9	8,105.0	194.4	193.3	0.00	-11,531.6	-131.9	2,494.0	2,308.4	185.64	13.435	
22,300.0	10,601.0	19,787.9	8,105.0	196.1	194.9	0.00	-11,631.6	-131.1	2,494.0	2,306.8	187.19	13.323	
22,400.0	10,601.0	19,887.9	8,105.0	197.7	196.6	0.00	-11,731.6	-130.3	2,494.0	2,305.2	188.75	13.213	
22,500.0	10,601.0	19,987.9	8,105.0	199.3	198.2	0.00	-11,831.6	-129.4	2,494.0	2,303.7	190.31	13.105	
22,600.0	10,601.0	20,087.9	8,105.0	200.9	199.8	0.00	-11,931.6	-128.6	2,494.0	2,302.1	191.87	12.999	
22,700.0	10,601.0	20,187.9	8,105.0	202.5	201.5	0.00	-12,031.6	-127.8	2,494.0	2,300.6	193.42	12.894	
22,800.0	10,601.0	20,287.9	8,105.0	204.2	203.1	0.00	-12,131.6	-127.0	2,494.0	2,299.0	194.98	12.791	
22,900.0	10,601.0	20,387.9	8,105.0	205.8	204.7	0.00	-12,231.6	-126.1	2,494.0	2,297.5	196.54	12.690	
23,000.0	10,601.0	20,487.9	8,105.0	207.4	206.4	0.00	-12,331.6	-125.3	2,494.0	2,295.9	198.10	12.590	
23,083.3	10,601.0	20,571.2	8,105.0	208.6	207.7	0.00	-12,414.9	-124.6	2,494.0	2,294.9	199.07	12.528	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #107H - 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	1.0	-1.0	0.0	0.0	89.61	0.6	90.0	90.0				
100.0	100.0	101.0	99.0	0.1	0.1	89.61	0.6	90.0	90.0	89.7	0.26	346.286	
200.0	200.0	201.0	199.0	0.5	0.5	89.61	0.6	90.0	90.0	89.0	0.98	92.131	
300.0	300.0	301.0	299.0	0.8	0.8	89.61	0.6	90.0	90.0	88.3	1.69	53.134	
400.0	400.0	401.0	399.0	1.2	1.2	89.61	0.6	90.0	90.0	87.6	2.41	37.332	
500.0	500.0	501.0	499.0	1.6	1.6	89.61	0.6	90.0	90.0	86.9	3.13	28.775	
600.0	600.0	601.0	599.0	1.9	1.9	89.61	0.6	90.0	90.0	86.2	3.84	23.409	
700.0	700.0	701.0	699.0	2.3	2.3	89.61	0.6	90.0	90.0	85.4	4.56	19.729	
800.0	800.0	801.0	799.0	2.6	2.6	89.61	0.6	90.0	90.0	84.7	5.28	17.050	
900.0	900.0	901.0	899.0	3.0	3.0	89.61	0.6	90.0	90.0	84.0	6.00	15.011	
1,000.0	1,000.0	999.0	999.0	3.4	3.4	89.61	0.6	90.0	90.0	83.3	6.71	13.422	CC
1,100.0	1,100.0	1,097.7	1,097.7	3.7	3.7	89.34	1.1	90.7	90.7	83.3	7.41	12.234	ES
1,200.0	1,200.0	1,196.3	1,196.3	4.1	4.0	88.51	2.4	92.8	92.9	84.7	8.12	11.440	
1,300.0	1,300.0	1,294.9	1,294.7	4.4	4.4	87.20	4.7	96.3	96.5	87.7	8.82	10.944	
1,400.0	1,400.0	1,393.2	1,392.9	4.8	4.7	85.53	7.9	101.2	101.7	92.2	9.52	10.686	
1,500.0	1,500.0	1,491.3	1,490.7	5.1	5.1	83.62	12.0	107.6	108.6	98.3	10.22	10.624	
1,600.0	1,600.0	1,589.1	1,588.1	5.5	5.5	81.59	17.0	115.3	117.0	106.1	10.91	10.725	
1,700.0	1,700.0	1,686.6	1,685.0	5.9	5.8	79.55	22.9	124.3	127.2	115.6	11.60	10.964	
1,800.0	1,800.0	1,783.7	1,781.2	6.2	6.2	77.57	29.7	134.7	139.1	126.8	12.29	11.321	
1,900.0	1,900.0	1,880.3	1,876.9	6.6	6.6	75.71	37.3	146.5	152.7	139.8	12.97	11.779	
2,000.0	2,000.0	1,976.4	1,971.7	6.9	6.9	73.99	45.8	159.4	168.1	154.5	13.64	12.323	
2,100.0	2,100.0	2,074.2	2,068.0	7.3	7.3	72.43	55.0	173.6	184.7	170.4	14.34	12.883	
2,200.0	2,200.0	2,172.7	2,165.0	7.7	7.7	71.11	64.3	188.0	201.5	186.5	15.05	13.392	
2,300.0	2,300.0	2,271.2	2,262.0	8.0	8.1	70.00	73.6	202.3	218.4	202.7	15.76	13.860	
2,400.0	2,400.0	2,369.7	2,359.0	8.4	8.5	69.05	82.9	216.6	235.4	218.9	16.47	14.290	
2,500.0	2,500.0	2,468.2	2,456.0	8.7	8.9	68.22	92.3	231.0	252.4	235.2	17.19	14.686	
2,600.0	2,600.0	2,566.6	2,553.0	9.1	9.4	67.50	101.6	245.3	269.5	251.6	17.90	15.053	
2,700.0	2,700.0	2,665.1	2,650.0	9.4	9.8	66.87	110.9	259.7	286.6	268.0	18.62	15.392	
2,800.0	2,800.0	2,763.6	2,746.9	9.8	10.2	66.31	120.2	274.0	303.7	284.4	19.34	15.707	
2,900.0	2,900.0	2,862.1	2,843.9	10.2	10.6	65.80	129.6	288.3	320.9	300.8	20.05	16.001	
3,000.0	3,000.0	2,960.6	2,940.9	10.5	11.0	65.35	138.9	302.7	338.0	317.3	20.77	16.274	
3,100.0	3,100.0	3,059.1	3,038.0	10.9	11.5	53.78	148.2	317.0	354.7	333.2	21.49	16.506	
3,200.0	3,200.0	3,157.9	3,135.3	11.2	11.9	53.61	157.6	331.4	370.4	348.2	22.21	16.676	
3,300.0	3,299.9	3,256.8	3,232.7	11.6	12.3	53.66	166.9	345.8	385.0	362.1	22.93	16.790	
3,400.0	3,399.7	3,355.8	3,330.2	12.0	12.8	53.91	176.3	360.2	398.7	375.0	23.66	16.852	
3,500.0	3,499.4	3,454.9	3,427.8	12.3	13.2	54.34	185.7	374.6	411.8	387.4	24.39	16.888	
3,600.0	3,599.2	3,554.0	3,525.4	12.7	13.6	54.75	195.0	389.1	425.0	399.9	25.11	16.923	
3,700.0	3,698.9	3,653.1	3,622.9	13.0	14.1	55.14	204.4	403.5	438.2	412.3	25.84	16.955	
3,800.0	3,798.7	3,752.2	3,720.5	13.4	14.5	55.50	213.8	417.9	451.4	424.8	26.57	16.986	
3,900.0	3,898.5	3,851.3	3,818.1	13.8	14.9	55.84	223.2	432.3	464.6	437.3	27.31	17.015	
4,000.0	3,998.2	3,950.4	3,915.7	14.1	15.4	56.16	232.6	446.8	477.9	449.8	28.04	17.042	
4,100.0	4,098.0	4,050.9	4,014.7	14.5	15.8	56.47	242.1	461.4	491.1	462.3	28.79	17.059	
4,200.0	4,197.7	4,164.8	4,127.2	14.8	16.3	56.85	251.7	476.3	502.6	473.0	29.65	16.949	
4,300.0	4,297.5	4,279.2	4,240.7	15.2	16.8	57.28	259.6	488.4	511.2	480.7	30.50	16.764	
4,400.0	4,397.2	4,394.1	4,355.1	15.6	17.2	57.79	265.7	497.7	516.9	485.6	31.31	16.510	
4,500.0	4,497.0	4,509.2	4,469.9	15.9	17.6	58.36	269.8	504.1	519.8	487.7	32.10	16.194	
4,600.0	4,596.8	4,624.4	4,585.0	16.3	18.0	59.01	272.1	507.6	519.7	486.8	32.85	15.821	
4,700.0	4,696.5	4,734.9	4,695.5	16.7	18.4	59.73	272.6	508.3	516.8	483.3	33.57	15.397	
4,800.0	4,796.3	4,834.7	4,795.3	17.0	18.7	60.40	272.6	508.3	513.4	479.1	34.28	14.975	
4,900.0	4,896.0	4,934.4	4,895.0	17.4	19.0	61.08	272.6	508.3	509.9	474.9	34.99	14.572	
5,000.0	4,995.8	5,034.2	4,994.8	17.8	19.3	61.77	272.6	508.3	506.6	470.9	35.71	14.187	
5,100.0	5,095.5	5,133.9	5,094.5	18.1	19.7	62.47	272.6	508.3	503.3	466.9	36.43	13.818	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #107H - 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
5,200.0	5,195.3	5,233.7	5,194.3	18.5	20.0	63.17	272.6	508.3	500.1	463.0	37.14	13.465	
5,300.0	5,295.0	5,333.5	5,294.0	18.9	20.3	63.89	272.6	508.3	497.0	459.2	37.86	13.128	
5,400.0	5,394.8	5,433.2	5,393.8	19.2	20.6	64.61	272.6	508.3	494.0	455.4	38.58	12.804	
5,500.0	5,494.6	5,533.0	5,493.6	19.6	21.0	65.35	272.6	508.3	491.0	451.7	39.30	12.494	
5,600.0	5,594.3	5,632.7	5,593.3	20.0	21.3	66.09	272.6	508.3	488.2	448.1	40.02	12.197	
5,700.0	5,694.1	5,732.5	5,693.1	20.3	21.6	66.84	272.6	508.3	485.4	444.6	40.74	11.912	
5,800.0	5,793.8	5,832.2	5,792.8	20.7	22.0	67.60	272.6	508.3	482.7	441.2	41.47	11.639	
5,900.0	5,893.6	5,932.0	5,892.6	21.1	22.3	68.37	272.6	508.3	480.0	437.8	42.19	11.378	
6,000.0	5,993.3	6,031.8	5,992.3	21.4	22.6	69.15	272.6	508.3	477.5	434.6	42.92	11.126	
6,100.0	6,093.1	6,131.5	6,092.1	21.8	23.0	69.93	272.6	508.3	475.1	431.4	43.64	10.885	
6,200.0	6,192.9	6,231.3	6,191.9	22.2	23.3	70.72	272.6	508.3	472.7	428.3	44.37	10.654	
6,300.0	6,292.6	6,331.0	6,291.6	22.5	23.6	71.52	272.6	508.3	470.4	425.3	45.10	10.432	
6,400.0	6,392.4	6,430.8	6,391.4	22.9	24.0	72.33	272.6	508.3	468.3	422.5	45.82	10.219	
6,500.0	6,492.1	6,530.5	6,491.1	23.3	24.3	73.15	272.6	508.3	466.2	419.6	46.55	10.014	
6,600.0	6,591.9	6,630.3	6,590.9	23.6	24.6	73.97	272.6	508.3	464.2	416.9	47.28	9.818	
6,700.0	6,691.6	6,730.0	6,690.6	24.0	25.0	74.80	272.6	508.3	462.3	414.3	48.01	9.630	
6,800.0	6,791.4	6,829.8	6,790.4	24.4	25.3	75.63	272.6	508.3	460.6	411.8	48.74	9.449	
6,900.0	6,891.1	6,929.6	6,890.1	24.7	25.6	76.47	272.6	508.3	458.9	409.4	49.47	9.275	
7,000.0	6,990.9	7,029.3	6,989.9	25.1	26.0	77.32	272.6	508.3	457.3	407.1	50.20	9.108	
7,020.0	7,010.8	7,049.2	7,009.8	25.2	26.0	77.49	272.6	508.3	457.0	406.6	50.35	9.076	
7,100.0	7,090.7	7,129.1	7,089.7	25.5	26.3	78.06	272.6	508.3	456.0	405.0	50.93	8.952	
7,200.0	7,190.6	7,229.1	7,189.6	25.8	26.7	78.49	272.6	508.3	455.2	403.6	51.65	8.814	
7,286.6	7,277.3	7,315.7	7,276.3	26.1	26.9	89.75	272.6	508.3	455.1	402.8	52.26	8.707	
7,300.0	7,290.6	7,329.1	7,289.6	26.2	27.0	89.75	272.6	508.3	455.1	402.7	52.36	8.691	
7,400.0	7,390.6	7,429.1	7,389.6	26.5	27.3	89.75	272.6	508.3	455.1	402.0	53.06	8.576	
7,500.0	7,490.6	7,529.1	7,489.6	26.9	27.7	89.75	272.6	508.3	455.1	401.3	53.76	8.464	
7,600.0	7,590.6	7,629.1	7,589.6	27.3	28.0	89.75	272.6	508.3	455.1	400.6	54.46	8.355	
7,700.0	7,690.6	7,729.1	7,689.6	27.6	28.4	89.75	272.6	508.3	455.1	399.9	55.17	8.249	
7,800.0	7,790.6	7,829.1	7,789.6	28.0	28.7	89.75	272.6	508.3	455.1	399.2	55.87	8.145	
7,900.0	7,890.6	7,929.1	7,889.6	28.3	29.0	89.75	272.6	508.3	455.1	398.5	56.57	8.043	
8,000.0	7,990.6	8,029.1	7,989.6	28.7	29.4	89.75	272.6	508.3	455.1	397.8	57.28	7.945	
8,100.0	8,090.6	8,133.3	8,093.8	29.0	29.7	89.99	270.7	508.1	454.9	396.9	57.97	7.847	
8,200.0	8,190.6	8,239.7	8,198.5	29.4	30.0	92.31	252.3	506.1	453.2	394.6	58.64	7.729	
8,297.4	8,288.1	8,334.1	8,287.1	29.7	30.2	96.40	220.2	502.5	452.0	392.7	59.31	7.621	
8,300.0	8,290.6	8,336.5	8,289.2	29.7	30.2	96.52	219.2	502.3	452.0	392.7	59.33	7.619	
8,400.0	8,390.6	8,420.1	8,362.2	30.1	30.4	101.68	178.7	497.8	454.7	394.9	59.89	7.593 SF	
8,500.0	8,490.6	8,490.3	8,418.3	30.4	30.5	106.91	136.9	493.1	465.2	405.2	59.97	7.757	
8,600.0	8,590.6	8,550.0	8,461.6	30.8	30.6	111.84	96.2	488.5	486.1	426.8	59.26	8.203	
8,700.0	8,690.6	8,600.0	8,494.5	31.2	30.6	116.17	58.8	484.3	518.4	460.8	57.66	8.991	
8,800.0	8,790.6	8,636.3	8,516.3	31.5	30.6	119.36	29.9	481.1	561.9	506.7	55.20	10.179	
8,900.0	8,890.6	8,669.5	8,534.5	31.9	30.6	122.28	2.3	478.0	615.2	562.7	52.46	11.727	
9,000.0	8,990.6	8,700.0	8,549.8	32.2	30.6	124.92	-23.9	475.1	676.8	627.0	49.73	13.608	
9,100.0	9,090.6	8,721.2	8,559.7	32.6	30.7	126.73	-42.6	473.0	745.0	698.1	46.97	15.863	
9,200.0	9,190.6	8,750.0	8,571.9	32.9	30.7	129.13	-68.5	470.1	818.7	773.9	44.78	18.285	
9,300.0	9,290.6	8,750.0	8,571.9	33.3	30.7	129.13	-68.5	470.1	896.6	854.5	42.07	21.313	
9,400.0	9,390.6	8,774.6	8,581.3	33.6	30.7	131.12	-91.1	467.5	977.7	937.3	40.44	24.179	
9,500.0	9,490.6	8,800.0	8,589.9	34.0	30.7	133.12	-114.8	464.9	1,061.8	1,022.7	39.10	27.156	
9,600.0	9,590.6	8,800.0	8,589.9	34.3	30.7	133.12	-114.8	464.9	1,147.8	1,110.4	37.38	30.707	
9,700.0	9,690.6	8,800.0	8,589.9	34.7	30.7	133.12	-114.8	464.9	1,235.9	1,199.9	35.93	34.395	
9,800.0	9,790.6	8,820.2	8,596.0	35.1	30.7	134.65	-133.9	462.7	1,325.1	1,290.0	35.14	37.705	
9,900.0	9,890.6	8,828.8	8,598.4	35.4	30.7	135.29	-142.1	461.8	1,415.8	1,381.5	34.28	41.304	
10,000.0	9,990.6	8,850.0	8,603.8	35.8	30.7	136.83	-162.5	459.5	1,507.7	1,473.9	33.80	44.606	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #107H - 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
10,037.4	10,028.0	8,850.0	8,603.8	35.9	30.7	136.83	-162.5	459.5	1,542.1	1,508.6	33.50	46.030	
10,050.0	10,040.6	8,850.0	8,603.8	35.9	30.7	-56.73	-162.5	459.5	1,553.8	1,520.4	33.40	46.515	
10,100.0	10,090.5	8,850.0	8,603.8	36.1	30.7	-47.95	-162.5	459.5	1,599.3	1,566.3	33.00	48.460	
10,150.0	10,139.9	8,850.0	8,603.8	36.2	30.7	-41.03	-162.5	459.5	1,644.0	1,611.4	32.60	50.431	
10,200.0	10,188.5	8,850.0	8,603.8	36.4	30.7	-35.60	-162.5	459.5	1,687.4	1,655.2	32.20	52.409	
10,250.0	10,235.8	8,850.0	8,603.8	36.5	30.7	-31.35	-162.5	459.5	1,729.3	1,697.5	31.80	54.374	
10,300.0	10,281.5	8,869.6	8,608.1	36.6	30.7	-27.76	-181.5	457.4	1,769.2	1,737.5	31.71	55.796	
10,350.0	10,325.4	8,877.5	8,609.6	36.7	30.7	-25.07	-189.2	456.5	1,807.3	1,775.8	31.45	57.474	
10,400.0	10,366.9	8,900.0	8,613.5	36.9	30.7	-22.85	-211.2	454.1	1,843.4	1,812.0	31.38	58.742	
10,450.0	10,405.9	8,900.0	8,613.5	37.0	30.7	-21.17	-211.2	454.1	1,876.7	1,845.7	31.05	60.442	
10,500.0	10,442.0	8,900.0	8,613.5	37.1	30.7	-19.79	-211.2	454.1	1,907.7	1,877.0	30.77	62.007	
10,550.0	10,474.9	8,900.0	8,613.5	37.2	30.7	-18.65	-211.2	454.1	1,936.3	1,905.8	30.54	63.402	
10,600.0	10,504.5	8,923.9	8,616.5	37.3	30.8	-17.72	-234.8	451.4	1,961.7	1,931.1	30.58	64.158	
10,650.0	10,530.4	8,950.0	8,618.8	37.4	30.9	-16.99	-260.6	448.5	1,984.6	1,954.0	30.65	64.754	
10,700.0	10,552.5	8,950.0	8,618.8	37.5	30.9	-16.38	-260.6	448.5	2,004.1	1,973.5	30.57	65.555	
10,750.0	10,570.6	8,950.0	8,618.8	37.6	30.9	-15.89	-260.6	448.5	2,020.8	1,990.2	30.58	66.085	
10,800.0	10,584.6	8,966.2	8,619.6	37.7	30.9	-15.56	-276.7	446.7	2,034.3	2,003.5	30.74	66.182	
10,850.0	10,594.3	8,986.4	8,620.0	37.8	31.0	-15.35	-296.8	444.5	2,044.7	2,013.7	30.96	66.038	
10,900.0	10,599.7	8,992.9	8,620.0	37.9	31.0	-15.18	-303.3	443.7	2,051.7	2,020.5	31.21	65.746	
10,937.4	10,601.0	9,023.8	8,620.0	38.0	31.1	-15.25	-334.0	440.5	2,054.7	2,023.2	31.49	65.245	
11,000.0	10,601.0	9,075.4	8,620.0	38.2	31.3	-15.56	-385.4	435.9	2,057.7	2,025.7	32.00	64.306	
11,100.0	10,601.0	9,157.6	8,620.0	38.5	31.7	-16.03	-467.4	430.5	2,062.5	2,029.6	32.86	62.766	
11,200.0	10,601.0	9,239.4	8,620.0	38.9	32.1	-16.49	-549.1	427.4	2,067.3	2,033.5	33.78	61.200	
11,300.0	10,601.0	9,320.9	8,620.0	39.4	32.5	-16.93	-630.7	426.6	2,072.0	2,037.2	34.75	59.628	
11,400.0	10,601.0	9,417.9	8,620.0	39.9	33.1	-17.38	-727.7	427.4	2,076.3	2,040.5	35.82	57.972	
11,500.0	10,601.0	9,517.3	8,620.0	40.4	33.8	-17.74	-827.0	428.3	2,079.6	2,042.7	36.90	56.363	
11,600.0	10,601.0	9,617.0	8,620.0	41.0	34.5	-17.98	-926.7	429.1	2,082.0	2,044.0	37.98	54.813	
11,700.0	10,601.0	9,716.9	8,620.0	41.7	35.3	-18.11	-1,026.7	429.9	2,083.2	2,044.1	39.07	53.326	
11,766.0	10,601.0	9,782.9	8,620.0	42.2	35.9	-18.13	-1,092.6	430.5	2,083.4	2,043.7	39.78	52.380	
11,800.0	10,601.0	9,816.9	8,620.0	42.4	36.2	-18.13	-1,126.6	430.7	2,083.4	2,043.3	40.14	51.901	
11,900.0	10,601.0	9,916.9	8,620.0	43.2	37.1	-18.13	-1,226.6	431.6	2,083.4	2,042.2	41.26	50.498	
12,000.0	10,601.0	10,016.9	8,620.0	44.0	38.1	-18.13	-1,326.6	432.4	2,083.4	2,041.0	42.42	49.114	
12,100.0	10,601.0	10,116.9	8,620.0	44.8	39.1	-18.13	-1,426.6	433.2	2,083.4	2,039.8	43.63	47.756	
12,200.0	10,601.0	10,216.9	8,620.0	45.7	40.1	-18.13	-1,526.6	434.0	2,083.4	2,038.6	44.87	46.429	
12,300.0	10,601.0	10,316.9	8,620.0	46.6	41.2	-18.13	-1,626.6	434.9	2,083.4	2,037.3	46.16	45.138	
12,400.0	10,601.0	10,416.9	8,620.0	47.6	42.3	-18.13	-1,726.6	435.7	2,083.4	2,036.0	47.48	43.885	
12,500.0	10,601.0	10,516.9	8,620.0	48.6	43.5	-18.13	-1,826.6	436.5	2,083.4	2,034.6	48.82	42.672	
12,600.0	10,601.0	10,616.9	8,620.0	49.7	44.7	-18.13	-1,926.6	437.3	2,083.5	2,033.2	50.20	41.500	
12,700.0	10,601.0	10,716.9	8,620.0	50.8	45.9	-18.13	-2,026.6	438.2	2,083.5	2,031.8	51.61	40.371	
12,800.0	10,601.0	10,816.9	8,620.0	51.9	47.1	-18.13	-2,126.6	439.0	2,083.5	2,030.4	53.04	39.283	
12,900.0	10,601.0	10,916.9	8,620.0	53.0	48.4	-18.13	-2,226.6	439.8	2,083.5	2,029.0	54.49	38.236	
13,000.0	10,601.0	11,016.9	8,620.0	54.2	49.7	-18.13	-2,326.6	440.6	2,083.5	2,027.5	55.96	37.230	
13,100.0	10,601.0	11,116.9	8,620.0	55.4	51.0	-18.13	-2,426.6	441.5	2,083.5	2,026.0	57.45	36.263	
13,200.0	10,601.0	11,216.9	8,620.0	56.6	52.3	-18.13	-2,526.6	442.3	2,083.5	2,024.5	58.96	35.335	
13,300.0	10,601.0	11,316.9	8,620.0	57.8	53.7	-18.13	-2,626.6	443.1	2,083.5	2,023.0	60.49	34.443	
13,400.0	10,601.0	11,416.9	8,620.0	59.1	55.1	-18.13	-2,726.6	443.9	2,083.5	2,021.4	62.03	33.587	
13,500.0	10,601.0	11,516.9	8,620.0	60.3	56.4	-18.13	-2,826.6	444.8	2,083.5	2,019.9	63.59	32.765	
13,600.0	10,601.0	11,616.9	8,620.0	61.6	57.8	-18.13	-2,926.6	445.6	2,083.5	2,018.3	65.16	31.976	
13,700.0	10,601.0	11,716.9	8,620.0	62.9	59.2	-18.13	-3,026.6	446.4	2,083.5	2,016.7	66.74	31.219	
13,800.0	10,601.0	11,816.9	8,620.0	64.3	60.7	-18.13	-3,126.6	447.3	2,083.5	2,015.1	68.33	30.491	
13,900.0	10,601.0	11,916.9	8,620.0	65.6	62.1	-18.13	-3,226.6	448.1	2,083.5	2,013.5	69.93	29.792	
14,000.0	10,601.0	12,016.9	8,620.0	66.9	63.5	-18.13	-3,326.6	448.9	2,083.5	2,011.9	71.55	29.120	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #107H - 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
14,100.0	10,601.0	12,116.9	8,620.0	68.3	65.0	-18.13	-3,426.6	449.7	2,083.5	2,010.3	73.17	28.474	
14,200.0	10,601.0	12,216.9	8,620.0	69.7	66.4	-18.13	-3,526.6	450.6	2,083.5	2,008.7	74.80	27.853	
14,300.0	10,601.0	12,316.9	8,620.0	71.1	67.9	-18.13	-3,626.6	451.4	2,083.5	2,007.0	76.44	27.256	
14,400.0	10,601.0	12,416.9	8,620.0	72.5	69.4	-18.13	-3,726.6	452.2	2,083.5	2,005.4	78.09	26.681	
14,500.0	10,601.0	12,516.9	8,620.0	73.9	70.9	-18.13	-3,826.6	453.0	2,083.5	2,003.7	79.74	26.128	
14,600.0	10,601.0	12,616.9	8,620.0	75.3	72.4	-18.13	-3,926.5	453.9	2,083.5	2,002.1	81.40	25.594	
14,700.0	10,601.0	12,716.9	8,620.0	76.8	73.9	-18.13	-4,026.5	454.7	2,083.5	2,000.4	83.07	25.081	
14,800.0	10,601.0	12,816.9	8,620.0	78.2	75.4	-18.13	-4,126.5	455.5	2,083.5	1,998.7	84.74	24.586	
14,900.0	10,601.0	12,916.9	8,620.0	79.6	76.9	-18.13	-4,226.5	456.3	2,083.5	1,997.0	86.42	24.108	
15,000.0	10,601.0	13,016.9	8,620.0	81.1	78.4	-18.13	-4,326.5	457.2	2,083.5	1,995.4	88.11	23.647	
15,100.0	10,601.0	13,116.9	8,620.0	82.6	79.9	-18.13	-4,426.5	458.0	2,083.5	1,993.7	89.80	23.202	
15,200.0	10,601.0	13,216.9	8,620.0	84.0	81.5	-18.13	-4,526.5	458.8	2,083.5	1,992.0	91.49	22.773	
15,300.0	10,601.0	13,316.9	8,620.0	85.5	83.0	-18.13	-4,626.5	459.6	2,083.5	1,990.3	93.19	22.358	
15,400.0	10,601.0	13,416.9	8,620.0	87.0	84.5	-18.13	-4,726.5	460.5	2,083.5	1,988.6	94.89	21.957	
15,500.0	10,601.0	13,516.9	8,620.0	88.5	86.1	-18.13	-4,826.5	461.3	2,083.5	1,986.9	96.60	21.569	
15,600.0	10,601.0	13,616.9	8,620.0	90.0	87.6	-18.13	-4,926.5	462.1	2,083.5	1,985.2	98.31	21.193	
15,700.0	10,601.0	13,716.9	8,620.0	91.5	89.2	-18.13	-5,026.5	462.9	2,083.5	1,983.4	100.02	20.830	
15,800.0	10,601.0	13,816.9	8,620.0	93.0	90.7	-18.13	-5,126.5	463.8	2,083.5	1,981.7	101.74	20.479	
15,900.0	10,601.0	13,916.9	8,620.0	94.5	92.3	-18.13	-5,226.5	464.6	2,083.5	1,980.0	103.46	20.138	
16,000.0	10,601.0	14,016.9	8,620.0	96.0	93.8	-18.13	-5,326.5	465.4	2,083.5	1,978.3	105.18	19.808	
16,100.0	10,601.0	14,116.9	8,620.0	97.5	95.4	-18.13	-5,426.5	466.3	2,083.5	1,976.6	106.91	19.488	
16,200.0	10,601.0	14,216.9	8,620.0	99.1	97.0	-18.13	-5,526.5	467.1	2,083.5	1,974.8	108.64	19.178	
16,300.0	10,601.0	14,316.9	8,620.0	100.6	98.5	-18.13	-5,626.5	467.9	2,083.5	1,973.1	110.37	18.877	
16,400.0	10,601.0	14,416.9	8,620.0	102.1	100.1	-18.13	-5,726.5	468.7	2,083.5	1,971.4	112.11	18.585	
16,500.0	10,601.0	14,516.9	8,620.0	103.7	101.7	-18.13	-5,826.5	469.6	2,083.5	1,969.6	113.84	18.301	
16,600.0	10,601.0	14,616.9	8,620.0	105.2	103.3	-18.13	-5,926.5	470.4	2,083.5	1,967.9	115.58	18.026	
16,700.0	10,601.0	14,716.9	8,620.0	106.7	104.8	-18.13	-6,026.5	471.2	2,083.5	1,966.2	117.33	17.758	
16,800.0	10,601.0	14,816.9	8,620.0	108.3	106.4	-18.13	-6,126.5	472.0	2,083.5	1,964.4	119.07	17.498	
16,900.0	10,601.0	14,916.9	8,620.0	109.8	108.0	-18.13	-6,226.5	472.9	2,083.5	1,962.7	120.82	17.245	
17,000.0	10,601.0	15,016.9	8,620.0	111.4	109.6	-18.13	-6,326.5	473.7	2,083.5	1,960.9	122.56	16.999	
17,100.0	10,601.0	15,116.9	8,620.0	113.0	111.2	-18.13	-6,426.5	474.5	2,083.5	1,959.2	124.31	16.760	
17,200.0	10,601.0	15,216.9	8,620.0	114.5	112.8	-18.13	-6,526.5	475.3	2,083.5	1,957.4	126.06	16.527	
17,300.0	10,601.0	15,316.9	8,620.0	116.1	114.4	-18.13	-6,626.5	476.2	2,083.5	1,955.7	127.82	16.300	
17,400.0	10,601.0	15,416.9	8,620.0	117.6	116.0	-18.13	-6,726.5	477.0	2,083.5	1,953.9	129.57	16.080	
17,500.0	10,601.0	15,516.9	8,620.0	119.2	117.6	-18.13	-6,826.4	477.8	2,083.5	1,952.2	131.33	15.865	
17,600.0	10,601.0	15,616.9	8,620.0	120.8	119.1	-18.13	-6,926.4	478.6	2,083.5	1,950.4	133.09	15.655	
17,700.0	10,601.0	15,716.9	8,620.0	122.3	120.7	-18.13	-7,026.4	479.5	2,083.5	1,948.6	134.85	15.451	
17,800.0	10,601.0	15,816.9	8,620.0	123.9	122.3	-18.13	-7,126.4	480.3	2,083.5	1,946.9	136.61	15.252	
17,900.0	10,601.0	15,916.9	8,620.0	125.5	123.9	-18.13	-7,226.4	481.1	2,083.5	1,945.1	138.37	15.057	
18,000.0	10,601.0	16,016.9	8,620.0	127.1	125.5	-18.13	-7,326.4	481.9	2,083.5	1,943.4	140.13	14.868	
18,100.0	10,601.0	16,116.9	8,620.0	128.6	127.2	-18.13	-7,426.4	482.8	2,083.5	1,941.6	141.90	14.683	
18,200.0	10,601.0	16,216.9	8,620.0	130.2	128.8	-18.13	-7,526.4	483.6	2,083.5	1,939.8	143.66	14.503	
18,300.0	10,601.0	16,316.9	8,620.0	131.8	130.4	-18.13	-7,626.4	484.4	2,083.5	1,938.1	145.43	14.326	
18,400.0	10,601.0	16,416.9	8,620.0	133.4	132.0	-18.13	-7,726.4	485.3	2,083.5	1,936.3	147.20	14.154	
18,500.0	10,601.0	16,516.9	8,620.0	135.0	133.6	-18.13	-7,826.4	486.1	2,083.5	1,934.5	148.97	13.986	
18,600.0	10,601.0	16,616.9	8,620.0	136.6	135.2	-18.13	-7,926.4	486.9	2,083.5	1,932.7	150.74	13.822	
18,700.0	10,601.0	16,716.9	8,620.0	138.1	136.8	-18.13	-8,026.4	487.7	2,083.5	1,931.0	152.51	13.661	
18,800.0	10,601.0	16,816.9	8,620.0	139.7	138.4	-18.13	-8,126.4	488.6	2,083.5	1,929.2	154.28	13.504	
18,900.0	10,601.0	16,916.9	8,620.0	141.3	140.0	-18.13	-8,226.4	489.4	2,083.5	1,927.4	156.06	13.351	
19,000.0	10,601.0	17,016.9	8,620.0	142.9	141.6	-18.13	-8,326.4	490.2	2,083.5	1,925.7	157.83	13.201	
19,100.0	10,601.0	17,116.9	8,620.0	144.5	143.2	-18.13	-8,426.4	491.0	2,083.5	1,923.9	159.60	13.054	
19,200.0	10,601.0	17,216.9	8,620.0	146.1	144.9	-18.13	-8,526.4	491.9	2,083.5	1,922.1	161.38	12.910	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #107H - 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
19,300.0	10,601.0	17,316.9	8,620.0	147.7	146.5	-18.13	-8,626.4	492.7	2,083.5	1,920.3	163.16	12.770	
19,400.0	10,601.0	17,416.9	8,620.0	149.3	148.1	-18.13	-8,726.4	493.5	2,083.5	1,918.6	164.93	12.632	
19,500.0	10,601.0	17,516.9	8,620.0	150.9	149.7	-18.13	-8,826.4	494.3	2,083.5	1,916.8	166.71	12.497	
19,600.0	10,601.0	17,616.9	8,620.0	152.5	151.3	-18.13	-8,926.4	495.2	2,083.5	1,915.0	168.49	12.366	
19,700.0	10,601.0	17,716.9	8,620.0	154.1	152.9	-18.13	-9,026.4	496.0	2,083.5	1,913.2	170.27	12.236	
19,800.0	10,601.0	17,816.9	8,620.0	155.7	154.6	-18.13	-9,126.4	496.8	2,083.5	1,911.4	172.05	12.110	
19,900.0	10,601.0	17,916.9	8,620.0	157.3	156.2	-18.13	-9,226.4	497.6	2,083.5	1,909.7	173.83	11.986	
20,000.0	10,601.0	18,016.9	8,620.0	158.9	157.8	-18.14	-9,326.4	498.5	2,083.5	1,907.9	175.62	11.864	
20,100.0	10,601.0	18,116.9	8,620.0	160.5	159.4	-18.14	-9,426.4	499.3	2,083.5	1,906.1	177.40	11.745	
20,200.0	10,601.0	18,216.9	8,620.0	162.1	161.0	-18.14	-9,526.4	500.1	2,083.5	1,904.3	179.18	11.628	
20,300.0	10,601.0	18,316.9	8,620.0	163.7	162.7	-18.14	-9,626.4	500.9	2,083.5	1,902.5	180.96	11.513	
20,400.0	10,601.0	18,416.9	8,620.0	165.3	164.3	-18.14	-9,726.3	501.8	2,083.5	1,900.8	182.75	11.401	
20,500.0	10,601.0	18,516.9	8,620.0	167.0	165.9	-18.14	-9,826.3	502.6	2,083.5	1,899.0	184.53	11.291	
20,600.0	10,601.0	18,616.9	8,620.0	168.6	167.5	-18.14	-9,926.3	503.4	2,083.5	1,897.2	186.32	11.182	
20,700.0	10,601.0	18,716.9	8,620.0	170.2	169.2	-18.14	-10,026.3	504.3	2,083.5	1,895.4	188.10	11.076	
20,800.0	10,601.0	18,816.9	8,620.0	171.8	170.8	-18.14	-10,126.3	505.1	2,083.5	1,893.6	189.89	10.972	
20,900.0	10,601.0	18,916.9	8,620.0	173.4	172.4	-18.14	-10,226.3	505.9	2,083.5	1,891.8	191.68	10.870	
21,000.0	10,601.0	19,016.9	8,620.0	175.0	174.0	-18.14	-10,326.3	506.7	2,083.5	1,890.0	193.47	10.769	
21,100.0	10,601.0	19,116.9	8,620.0	176.6	175.7	-18.14	-10,426.3	507.6	2,083.5	1,888.3	195.25	10.671	
21,200.0	10,601.0	19,216.9	8,620.0	178.2	177.3	-18.14	-10,526.3	508.4	2,083.5	1,886.5	197.04	10.574	
21,300.0	10,601.0	19,316.9	8,620.0	179.9	178.9	-18.14	-10,626.3	509.2	2,083.5	1,884.7	198.83	10.479	
21,400.0	10,601.0	19,416.9	8,620.0	181.5	180.6	-18.14	-10,726.3	510.0	2,083.5	1,882.9	200.62	10.385	
21,500.0	10,601.0	19,516.9	8,620.0	183.1	182.2	-18.14	-10,826.3	510.9	2,083.5	1,881.1	202.41	10.294	
21,600.0	10,601.0	19,616.9	8,620.0	184.7	183.8	-18.14	-10,926.3	511.7	2,083.5	1,879.3	204.20	10.203	
21,700.0	10,601.0	19,716.9	8,620.0	186.3	185.4	-18.14	-11,026.3	512.5	2,083.5	1,877.5	205.99	10.115	
21,800.0	10,601.0	19,816.9	8,620.0	187.9	187.1	-18.14	-11,126.3	513.3	2,083.5	1,875.7	207.78	10.027	
21,900.0	10,601.0	19,916.9	8,620.0	189.6	188.7	-18.14	-11,226.3	514.2	2,083.5	1,873.9	209.57	9.942	
22,000.0	10,601.0	20,016.9	8,620.0	191.2	190.3	-18.14	-11,326.3	515.0	2,083.5	1,872.1	211.36	9.857	
22,100.0	10,601.0	20,116.9	8,620.0	192.8	192.0	-18.14	-11,426.3	515.8	2,083.5	1,870.4	213.16	9.775	
22,200.0	10,601.0	20,216.9	8,620.0	194.4	193.6	-18.14	-11,526.3	516.6	2,083.5	1,868.6	214.95	9.693	
22,300.0	10,601.0	20,316.9	8,620.0	196.1	195.2	-18.14	-11,626.3	517.5	2,083.5	1,866.8	216.74	9.613	
22,400.0	10,601.0	20,416.9	8,620.0	197.7	196.9	-18.14	-11,726.3	518.3	2,083.5	1,865.0	218.53	9.534	
22,500.0	10,601.0	20,516.9	8,620.0	199.3	198.5	-18.14	-11,826.3	519.1	2,083.5	1,863.2	220.33	9.456	
22,600.0	10,601.0	20,616.9	8,620.0	200.9	200.1	-18.14	-11,926.3	519.9	2,083.5	1,861.4	222.12	9.380	
22,700.0	10,601.0	20,716.9	8,620.0	202.5	201.8	-18.14	-12,026.3	520.8	2,083.5	1,859.6	223.91	9.305	
22,800.0	10,601.0	20,816.9	8,620.0	204.2	203.4	-18.14	-12,126.3	521.6	2,083.5	1,857.8	225.71	9.231	
22,900.0	10,601.0	20,916.9	8,620.0	205.8	205.0	-18.14	-12,226.3	522.4	2,083.5	1,856.0	227.50	9.158	
23,000.0	10,601.0	21,016.9	8,620.0	207.4	206.7	-18.14	-12,326.3	523.3	2,083.5	1,854.2	229.30	9.086	
23,083.3	10,601.0	21,100.3	8,620.0	208.6	208.0	-18.14	-12,409.6	523.9	2,083.5	1,853.0	230.51	9.039	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #113H - 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	1.0	-1.0	0.0	0.0	134.62	-29.8	30.2	42.4				
100.0	100.0	101.0	99.0	0.1	0.1	134.62	-29.8	30.2	42.4	42.1	0.26	163.165	
200.0	200.0	201.0	199.0	0.5	0.5	134.62	-29.8	30.2	42.4	41.4	0.98	43.411	
300.0	300.0	301.0	299.0	0.8	0.8	134.62	-29.8	30.2	42.4	40.7	1.69	25.036	
400.0	400.0	401.0	399.0	1.2	1.2	134.62	-29.8	30.2	42.4	40.0	2.41	17.590	
500.0	500.0	501.0	499.0	1.6	1.6	134.62	-29.8	30.2	42.4	39.3	3.13	13.558	
600.0	600.0	601.0	599.0	1.9	1.9	134.62	-29.8	30.2	42.4	38.6	3.84	11.030	
700.0	700.0	701.0	699.0	2.3	2.3	134.62	-29.8	30.2	42.4	37.8	4.56	9.296	
800.0	800.0	801.0	799.0	2.6	2.6	134.62	-29.8	30.2	42.4	37.1	5.28	8.034	
900.0	900.0	901.0	899.0	3.0	3.0	134.62	-29.8	30.2	42.4	36.4	6.00	7.073	
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	134.62	-29.8	30.2	42.4	35.7	6.71	6.317	
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	134.62	-29.8	30.2	42.4	35.0	7.43	5.708	
1,200.0	1,200.0	1,201.0	1,199.0	4.1	4.1	134.62	-29.8	30.2	42.4	34.3	8.15	5.205	
1,300.0	1,300.0	1,301.0	1,299.0	4.4	4.4	134.62	-29.8	30.2	42.4	33.5	8.86	4.784	
1,400.0	1,400.0	1,401.0	1,399.0	4.8	4.8	134.62	-29.8	30.2	42.4	32.8	9.58	4.426	
1,500.0	1,500.0	1,501.0	1,499.0	5.1	5.2	134.62	-29.8	30.2	42.4	32.1	10.30	4.118	
1,600.0	1,600.0	1,601.0	1,599.0	5.5	5.5	134.62	-29.8	30.2	42.4	31.4	11.01	3.850	
1,700.0	1,700.0	1,701.0	1,699.0	5.9	5.9	134.62	-29.8	30.2	42.4	30.7	11.73	3.615	
1,800.0	1,800.0	1,801.0	1,799.0	6.2	6.2	134.62	-29.8	30.2	42.4	30.0	12.45	3.407	
1,900.0	1,900.0	1,901.0	1,899.0	6.6	6.6	134.62	-29.8	30.2	42.4	29.2	13.16	3.221	
2,000.0	2,000.0	2,001.0	1,999.0	6.9	6.9	134.62	-29.8	30.2	42.4	28.5	13.88	3.055	
2,100.0	2,100.0	2,101.0	2,099.0	7.3	7.3	134.62	-29.8	30.2	42.4	27.8	14.60	2.905	
2,200.0	2,200.0	2,201.0	2,199.0	7.7	7.7	134.62	-29.8	30.2	42.4	27.1	15.32	2.769	
2,300.0	2,300.0	2,301.0	2,299.0	8.0	8.0	134.62	-29.8	30.2	42.4	26.4	16.03	2.645	
2,400.0	2,400.0	2,401.0	2,399.0	8.4	8.4	134.62	-29.8	30.2	42.4	25.7	16.75	2.532	
2,500.0	2,500.0	2,501.0	2,499.0	8.7	8.7	134.62	-29.8	30.2	42.4	24.9	17.47	2.428	
2,600.0	2,600.0	2,601.0	2,599.0	9.1	9.1	134.62	-29.8	30.2	42.4	24.2	18.18	2.332	
2,700.0	2,700.0	2,701.0	2,699.0	9.4	9.5	134.62	-29.8	30.2	42.4	23.5	18.90	2.244	
2,800.0	2,800.0	2,801.0	2,799.0	9.8	9.8	134.62	-29.8	30.2	42.4	22.8	19.62	2.162	
2,900.0	2,900.0	2,901.0	2,899.0	10.2	10.2	134.62	-29.8	30.2	42.4	22.1	20.33	2.085	
3,000.0	3,000.0	2,999.0	2,999.0	10.5	10.5	134.62	-29.8	30.2	42.4	21.4	21.04	2.015	
3,100.0	3,100.0	3,099.7	3,099.7	10.9	10.9	124.24	-29.1	29.7	42.0	20.3	21.76	1.932	
3,200.0	3,200.0	3,200.4	3,200.4	11.2	11.2	126.58	-26.9	28.3	41.0	18.5	22.46	1.824	
3,300.0	3,299.9	3,301.1	3,300.9	11.6	11.6	130.74	-23.2	25.8	39.4	16.2	23.16	1.699	
3,400.0	3,399.7	3,401.6	3,401.3	12.0	12.0	137.11	-18.0	22.4	37.5	13.6	23.85	1.571	
3,500.0	3,499.4	3,502.1	3,501.5	12.3	12.3	145.30	-11.4	18.1	35.0	10.5	24.54	1.428	Level 3
3,600.0	3,599.2	3,602.4	3,601.3	12.7	12.7	155.51	-3.4	12.8	31.8	6.5	25.23	1.260	Level 3
3,700.0	3,698.9	3,702.6	3,700.8	13.0	13.0	169.43	6.1	6.5	28.3	2.3	25.95	1.089	Level 2
3,800.0	3,798.7	3,802.5	3,799.8	13.4	13.4	-171.04	17.0	-0.7	25.7	-1.0	26.71	0.962	Level 1
3,835.3	3,833.9	3,837.6	3,834.6	13.5	13.5	-163.01	21.1	-3.4	25.4	-1.6	26.99	0.942	Level 1, CC, ES, SF
3,900.0	3,898.5	3,901.9	3,898.3	13.8	13.8	-148.53	28.6	-8.3	26.3	-1.2	27.50	0.955	Level 1
4,000.0	3,998.2	4,001.4	3,996.9	14.1	14.1	-129.68	40.1	-16.0	30.5	2.3	28.23	1.080	Level 2
4,100.0	4,098.0	4,100.9	4,095.4	14.5	14.5	-116.42	51.7	-23.6	37.1	8.2	28.93	1.283	Level 3
4,200.0	4,197.7	4,200.4	4,193.9	14.8	14.9	-107.48	63.3	-31.2	45.1	15.5	29.63	1.522	
4,300.0	4,297.5	4,299.8	4,292.4	15.2	15.3	-101.33	74.8	-38.9	53.8	23.5	30.33	1.775	
4,400.0	4,397.2	4,400.7	4,390.9	15.6	15.6	-96.92	86.4	-46.5	63.0	32.0	31.04	2.030	
4,500.0	4,497.0	4,501.2	4,489.4	15.9	16.0	-93.65	97.9	-54.1	72.5	40.7	31.75	2.283	
4,600.0	4,596.8	4,601.7	4,587.9	16.3	16.4	-91.14	109.5	-61.7	82.1	49.6	32.47	2.529	
4,700.0	4,696.5	4,702.2	4,686.4	16.7	16.8	-89.16	121.0	-69.4	91.9	58.7	33.20	2.768	
4,800.0	4,796.3	4,797.2	4,784.9	17.0	17.2	-87.56	132.6	-77.0	101.7	67.8	33.90	3.001	
4,900.0	4,896.0	4,896.7	4,883.4	17.4	17.5	-86.24	144.1	-84.6	111.7	77.0	34.63	3.224	
5,000.0	4,995.8	5,003.8	4,981.9	17.8	18.0	-85.14	155.7	-92.2	121.6	86.2	35.38	3.437	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #113H - 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
5,100.0	5,095.5	5,104.3	5,080.5	18.1	18.4	-84.21	167.3	-99.9	131.6	95.5	36.11	3.645	
5,200.0	5,195.3	5,204.9	5,179.0	18.5	18.7	-83.41	178.8	-107.5	141.7	104.8	36.85	3.844	
5,300.0	5,295.0	5,305.4	5,277.5	18.9	19.1	-82.71	190.4	-115.1	151.7	114.1	37.58	4.037	
5,400.0	5,394.8	5,405.9	5,376.0	19.2	19.5	-82.10	201.9	-122.7	161.8	123.5	38.32	4.222	
5,500.0	5,494.6	5,506.4	5,474.5	19.6	19.9	-81.56	213.5	-130.4	171.9	132.8	39.05	4.401	
5,600.0	5,594.3	5,607.0	5,573.0	20.0	20.3	-81.09	225.0	-138.0	182.0	142.2	39.79	4.574	
5,700.0	5,694.1	5,692.5	5,671.5	20.3	20.7	-80.66	236.6	-145.6	192.1	151.6	40.47	4.747	
5,800.0	5,793.8	5,796.1	5,774.2	20.7	21.1	-80.46	247.6	-152.9	201.3	160.0	41.28	4.876	
5,900.0	5,893.6	5,900.3	5,877.9	21.1	21.5	-80.73	256.4	-158.7	208.3	166.2	42.09	4.950	
6,000.0	5,993.3	6,004.8	5,982.1	21.4	21.9	-81.44	262.8	-162.9	213.2	170.3	42.87	4.972	
6,100.0	6,093.1	6,109.3	6,086.5	21.8	22.3	-82.58	266.9	-165.6	215.9	172.3	43.64	4.947	
6,200.0	6,192.9	6,213.8	6,191.0	22.2	22.6	-84.17	268.5	-166.7	216.6	172.2	44.39	4.880	
6,300.0	6,292.6	6,314.4	6,291.6	22.5	23.0	-86.01	268.6	-166.7	216.0	170.9	45.12	4.787	
6,400.0	6,392.4	6,414.2	6,391.4	22.9	23.3	-87.86	268.6	-166.7	215.6	169.8	45.86	4.702	
6,500.0	6,492.1	6,514.0	6,491.1	23.3	23.7	-89.71	268.6	-166.7	215.5	168.9	46.60	4.625	
6,515.9	6,508.0	6,529.8	6,507.0	23.3	23.7	-90.00	268.6	-166.7	215.5	168.8	46.71	4.613	
6,600.0	6,591.9	6,613.7	6,590.9	23.6	24.0	-91.56	268.6	-166.7	215.6	168.2	47.33	4.554	
6,700.0	6,691.6	6,713.5	6,690.6	24.0	24.4	-93.40	268.6	-166.7	215.9	167.8	48.07	4.491	
6,800.0	6,791.4	6,813.2	6,790.4	24.4	24.7	-95.24	268.6	-166.7	216.4	167.6	48.80	4.434	
6,900.0	6,891.1	6,913.0	6,890.1	24.7	25.0	-97.07	268.6	-166.7	217.2	167.6	49.54	4.383	
7,000.0	6,990.9	7,012.7	6,989.9	25.1	25.4	-98.88	268.6	-166.7	218.1	167.8	50.27	4.339	
7,020.0	7,010.8	7,032.6	7,009.8	25.2	25.5	-99.24	268.6	-166.7	218.3	167.9	50.42	4.330	
7,100.0	7,090.7	7,112.5	7,089.7	25.5	25.7	-100.48	268.6	-166.7	219.2	168.2	51.00	4.297	
7,200.0	7,190.6	7,212.5	7,189.6	25.8	26.1	-101.40	268.6	-166.7	219.8	168.1	51.72	4.250	
7,286.6	7,277.3	7,300.9	7,276.3	26.1	26.4	-90.52	268.6	-166.7	220.0	167.7	52.34	4.204	
7,300.0	7,290.6	7,312.5	7,289.6	26.2	26.4	-90.52	268.6	-166.7	220.0	167.6	52.43	4.197	
7,400.0	7,390.6	7,412.5	7,389.6	26.5	26.8	-90.52	268.6	-166.7	220.0	166.9	53.13	4.141	
7,500.0	7,490.6	7,512.5	7,489.6	26.9	27.1	-90.52	268.6	-166.7	220.0	166.2	53.84	4.087	
7,600.0	7,590.6	7,612.5	7,589.6	27.3	27.5	-90.52	268.6	-166.7	220.0	165.5	54.54	4.034	
7,700.0	7,690.6	7,712.5	7,689.6	27.6	27.8	-90.52	268.6	-166.7	220.0	164.8	55.25	3.982	
7,800.0	7,790.6	7,812.5	7,789.6	28.0	28.2	-90.52	268.6	-166.7	220.0	164.1	55.96	3.932	
7,900.0	7,890.6	7,912.5	7,889.6	28.3	28.5	-90.52	268.6	-166.7	220.0	163.4	56.66	3.883	
8,000.0	7,990.6	8,012.5	7,989.6	28.7	28.9	-90.52	268.6	-166.7	220.0	162.7	57.37	3.835	
8,100.0	8,090.6	8,112.5	8,089.6	29.0	29.2	-90.52	268.6	-166.7	220.0	162.0	58.08	3.789	
8,200.0	8,190.6	8,212.5	8,189.6	29.4	29.6	-90.52	268.6	-166.7	220.0	161.3	58.78	3.743	
8,300.0	8,290.6	8,312.5	8,289.6	29.7	29.9	-90.52	268.6	-166.7	220.0	160.5	59.49	3.699	
8,400.0	8,390.6	8,412.5	8,389.6	30.1	30.3	-90.52	268.6	-166.7	220.0	159.8	60.20	3.655	
8,500.0	8,490.6	8,512.5	8,489.6	30.4	30.7	-90.52	268.6	-166.7	220.0	159.1	60.90	3.613	
8,600.0	8,590.6	8,607.8	8,584.5	30.8	30.9	-92.86	259.6	-167.5	221.1	159.5	61.55	3.592	
8,700.0	8,690.6	8,698.1	8,671.7	31.2	31.2	-98.64	236.7	-169.3	225.9	163.8	62.02	3.642	
8,800.0	8,790.6	8,779.4	8,746.3	31.5	31.4	-106.31	204.7	-171.9	238.6	176.8	61.80	3.860	
8,900.0	8,890.6	8,850.0	8,806.8	31.9	31.5	-114.09	168.6	-174.8	263.2	202.9	60.30	4.365	
9,000.0	8,990.6	8,911.1	8,855.3	32.2	31.6	-121.03	131.6	-177.8	301.2	243.7	57.58	5.231	
9,100.0	9,090.6	8,962.5	8,892.9	32.6	31.7	-126.65	96.6	-180.6	351.7	297.6	54.15	6.495	
9,200.0	9,190.6	9,000.0	8,918.1	32.9	31.7	-130.49	69.0	-182.8	412.4	362.2	50.18	8.219	
9,300.0	9,290.6	9,050.0	8,949.0	33.3	31.8	-135.18	29.8	-186.0	480.9	433.0	47.87	10.046	
9,400.0	9,390.6	9,074.1	8,962.6	33.6	31.8	-137.26	9.9	-187.6	555.2	510.7	44.51	12.475	
9,500.0	9,490.6	9,100.0	8,976.3	34.0	31.8	-139.35	-11.9	-189.3	634.2	592.2	42.01	15.097	
9,600.0	9,590.6	9,124.1	8,988.1	34.3	31.9	-141.17	-32.9	-191.0	716.7	676.7	40.01	17.914	
9,700.0	9,690.6	9,150.0	8,999.8	34.7	31.9	-142.99	-55.9	-192.8	801.9	763.4	38.56	20.797	
9,800.0	9,790.6	9,150.0	8,999.8	35.1	31.9	-142.99	-55.9	-192.8	889.4	853.1	36.33	24.482	
9,900.0	9,890.6	9,177.4	9,011.0	35.4	32.0	-144.77	-80.8	-194.9	978.3	942.6	35.64	27.445	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #113H - 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
10,000.0	9,990.6	9,200.0	9,019.4	35.8	32.0	-146.14	-101.7	-196.5	1,068.8	1,033.9	34.98	30.559	
10,037.4	10,028.0	9,200.0	9,019.4	35.9	32.0	-146.14	-101.7	-196.5	1,102.9	1,068.4	34.47	31.991	
10,050.0	10,040.6	9,200.0	9,019.4	35.9	32.0	16.93	-101.7	-196.5	1,114.4	1,080.1	34.31	32.482	
10,100.0	10,090.5	9,200.0	9,019.4	36.1	32.0	14.27	-101.7	-196.5	1,159.0	1,125.4	33.61	34.484	
10,150.0	10,139.9	9,200.0	9,019.4	36.2	32.0	12.31	-101.7	-196.5	1,202.1	1,169.3	32.86	36.578	
10,200.0	10,188.5	9,220.9	9,026.4	36.4	32.0	10.29	-121.4	-198.1	1,243.0	1,210.3	32.70	38.007	
10,250.0	10,235.8	9,230.2	9,029.3	36.5	32.1	9.03	-130.2	-198.8	1,282.0	1,249.9	32.14	39.892	
10,300.0	10,281.5	9,250.0	9,034.9	36.6	32.1	7.85	-149.1	-200.3	1,318.9	1,287.1	31.81	41.458	
10,350.0	10,325.4	9,250.0	9,034.9	36.7	32.1	7.23	-149.1	-200.3	1,353.2	1,322.3	30.93	43.746	
10,400.0	10,366.9	9,250.0	9,034.9	36.9	32.1	6.72	-149.1	-200.3	1,385.4	1,355.3	30.08	46.059	
10,450.0	10,405.9	9,273.2	9,040.7	37.0	32.2	6.02	-171.5	-202.1	1,414.6	1,384.8	29.76	47.527	
10,500.0	10,442.0	9,300.0	9,046.2	37.1	32.2	5.39	-197.6	-204.3	1,441.5	1,412.0	29.50	48.859	
10,550.0	10,474.9	9,300.0	9,046.2	37.2	32.2	5.15	-197.6	-204.3	1,465.0	1,436.3	28.70	51.055	
10,600.0	10,504.5	9,300.0	9,046.2	37.3	32.2	4.94	-197.6	-204.3	1,486.1	1,458.1	27.97	53.132	
10,650.0	10,530.4	9,322.1	9,049.9	37.4	32.3	4.57	-219.4	-206.0	1,504.0	1,476.3	27.67	54.359	
10,700.0	10,552.5	9,350.0	9,053.2	37.5	32.4	4.21	-247.0	-208.2	1,519.2	1,491.8	27.47	55.310	
10,750.0	10,570.6	9,350.0	9,053.2	37.6	32.4	4.12	-247.0	-208.2	1,530.9	1,503.9	26.95	56.807	
10,800.0	10,584.6	9,350.0	9,053.2	37.7	32.4	4.06	-247.0	-208.2	1,539.9	1,513.3	26.57	57.951	
10,850.0	10,594.3	9,374.3	9,055.1	37.8	32.5	3.83	-271.1	-210.2	1,545.4	1,518.9	26.50	58.325	
10,900.0	10,599.7	9,400.0	9,055.9	37.9	32.5	3.62	-296.7	-212.2	1,548.1	1,521.7	26.48	58.469	
10,937.4	10,601.0	9,400.0	9,055.9	38.0	32.5	3.62	-296.7	-212.2	1,547.8	1,521.4	26.43	58.571	
11,000.0	10,601.0	9,437.2	9,056.0	38.2	32.6	3.38	-333.8	-215.0	1,546.8	1,520.2	26.58	58.202	
11,100.0	10,601.0	9,538.4	9,056.0	38.5	33.0	2.70	-434.8	-220.3	1,545.8	1,518.8	26.99	57.273	
11,200.0	10,601.0	9,638.8	9,056.0	38.9	33.4	2.01	-535.3	-221.9	1,545.0	1,517.5	27.50	56.176	
11,300.0	10,601.0	9,737.6	9,056.0	39.4	33.9	1.37	-634.1	-221.2	1,544.5	1,516.3	28.12	54.920	
11,400.0	10,601.0	9,836.6	9,056.0	39.9	34.5	0.84	-733.0	-220.4	1,544.2	1,515.3	28.84	53.544	
11,500.0	10,601.0	9,935.9	9,056.0	40.4	35.1	0.44	-832.4	-219.6	1,544.0	1,514.4	29.64	52.088	
11,600.0	10,601.0	10,035.7	9,056.0	41.0	35.8	0.16	-932.1	-218.7	1,544.0	1,513.5	30.52	50.591	
11,700.0	10,601.0	10,135.6	9,056.0	41.7	36.6	0.01	-1,032.0	-217.9	1,544.0	1,512.5	31.46	49.080	
11,713.5	10,601.0	10,149.1	9,056.0	41.8	36.7	0.00	-1,045.5	-217.8	1,544.0	1,512.4	31.59	48.874	
11,766.0	10,601.0	10,201.5	9,056.0	42.2	37.1	-0.02	-1,098.0	-217.4	1,544.0	1,511.9	32.11	48.090	
11,800.0	10,601.0	10,235.6	9,056.0	42.4	37.4	-0.02	-1,132.0	-217.1	1,544.0	1,511.5	32.45	47.577	
11,900.0	10,601.0	10,335.6	9,056.0	43.2	38.3	-0.02	-1,232.0	-216.3	1,544.0	1,510.5	33.49	46.102	
12,000.0	10,601.0	10,435.6	9,056.0	44.0	39.2	-0.02	-1,332.0	-215.5	1,544.0	1,509.4	34.57	44.664	
12,100.0	10,601.0	10,535.6	9,056.0	44.8	40.2	-0.02	-1,432.0	-214.6	1,544.0	1,508.3	35.68	43.269	
12,200.0	10,601.0	10,635.6	9,056.0	45.7	41.2	-0.02	-1,532.0	-213.8	1,544.0	1,507.2	36.83	41.922	
12,300.0	10,601.0	10,735.6	9,056.0	46.6	42.2	-0.02	-1,632.0	-213.0	1,544.0	1,506.0	38.01	40.624	
12,400.0	10,601.0	10,835.6	9,056.0	47.6	43.3	-0.02	-1,732.0	-212.2	1,544.0	1,504.8	39.21	39.377	
12,500.0	10,601.0	10,935.6	9,056.0	48.6	44.4	-0.02	-1,832.0	-211.4	1,544.0	1,503.6	40.44	38.180	
12,600.0	10,601.0	11,035.6	9,056.0	49.7	45.6	-0.02	-1,932.0	-210.5	1,544.0	1,502.3	41.69	37.035	
12,700.0	10,601.0	11,135.6	9,056.0	50.8	46.8	-0.02	-2,032.0	-209.7	1,544.0	1,501.0	42.96	35.938	
12,800.0	10,601.0	11,235.6	9,056.0	51.9	48.0	-0.02	-2,132.0	-208.9	1,544.0	1,499.7	44.25	34.890	
12,900.0	10,601.0	11,335.6	9,056.0	53.0	49.2	-0.02	-2,232.0	-208.1	1,544.0	1,498.4	45.56	33.888	
13,000.0	10,601.0	11,435.6	9,056.0	54.2	50.5	-0.02	-2,332.0	-207.3	1,544.0	1,497.1	46.88	32.932	
13,100.0	10,601.0	11,535.6	9,056.0	55.4	51.8	-0.02	-2,431.9	-206.4	1,544.0	1,495.8	48.22	32.018	
13,200.0	10,601.0	11,635.6	9,056.0	56.6	53.1	-0.02	-2,531.9	-205.6	1,544.0	1,494.4	49.57	31.145	
13,300.0	10,601.0	11,735.6	9,056.0	57.8	54.4	-0.02	-2,631.9	-204.8	1,544.0	1,493.1	50.94	30.311	
13,400.0	10,601.0	11,835.6	9,056.0	59.1	55.8	-0.02	-2,731.9	-204.0	1,544.0	1,491.7	52.31	29.514	
13,500.0	10,601.0	11,935.6	9,056.0	60.3	57.1	-0.02	-2,831.9	-203.2	1,544.0	1,490.3	53.70	28.752	
13,600.0	10,601.0	12,035.6	9,056.0	61.6	58.5	-0.02	-2,931.9	-202.3	1,544.0	1,488.9	55.10	28.024	
13,700.0	10,601.0	12,135.6	9,056.0	62.9	59.9	-0.02	-3,031.9	-201.5	1,544.0	1,487.5	56.50	27.327	
13,800.0	10,601.0	12,235.6	9,056.0	64.3	61.3	-0.01	-3,131.9	-200.7	1,544.0	1,486.1	57.91	26.660	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #113H - 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
13,900.0	10,601.0	12,335.6	9,056.0	65.6	62.7	-0.01	-3,231.9	-199.9	1,544.0	1,484.7	59.33	26.022	
14,000.0	10,601.0	12,435.6	9,056.0	66.9	64.1	-0.01	-3,331.9	-199.1	1,544.0	1,483.2	60.76	25.410	
14,100.0	10,601.0	12,535.6	9,056.0	68.3	65.5	-0.01	-3,431.9	-198.2	1,544.0	1,481.8	62.20	24.824	
14,200.0	10,601.0	12,635.6	9,056.0	69.7	67.0	-0.01	-3,531.9	-197.4	1,544.0	1,480.4	63.64	24.262	
14,300.0	10,601.0	12,735.6	9,056.0	71.1	68.4	-0.01	-3,631.9	-196.6	1,544.0	1,478.9	65.09	23.722	
14,400.0	10,601.0	12,835.6	9,056.0	72.5	69.9	-0.01	-3,731.9	-195.8	1,544.0	1,477.5	66.54	23.205	
14,500.0	10,601.0	12,935.6	9,056.0	73.9	71.4	-0.01	-3,831.9	-195.0	1,544.0	1,476.0	68.00	22.707	
14,600.0	10,601.0	13,035.6	9,056.0	75.3	72.8	-0.01	-3,931.9	-194.1	1,544.0	1,474.5	69.46	22.229	
14,700.0	10,601.0	13,135.6	9,056.0	76.8	74.3	-0.01	-4,031.9	-193.3	1,544.0	1,473.1	70.93	21.769	
14,800.0	10,601.0	13,235.6	9,056.0	78.2	75.8	-0.01	-4,131.9	-192.5	1,544.0	1,471.6	72.40	21.327	
14,900.0	10,601.0	13,335.6	9,056.0	79.6	77.3	-0.01	-4,231.9	-191.7	1,544.0	1,470.1	73.87	20.901	
15,000.0	10,601.0	13,435.6	9,056.0	81.1	78.8	-0.01	-4,331.9	-190.9	1,544.0	1,468.6	75.35	20.491	
15,100.0	10,601.0	13,535.6	9,056.0	82.6	80.3	-0.01	-4,431.9	-190.0	1,544.0	1,467.2	76.83	20.095	
15,200.0	10,601.0	13,635.6	9,056.0	84.0	81.9	-0.01	-4,531.9	-189.2	1,544.0	1,465.7	78.32	19.714	
15,300.0	10,601.0	13,735.6	9,056.0	85.5	83.4	-0.01	-4,631.9	-188.4	1,544.0	1,464.2	79.81	19.346	
15,400.0	10,601.0	13,835.6	9,056.0	87.0	84.9	-0.01	-4,731.9	-187.6	1,544.0	1,462.7	81.30	18.991	
15,500.0	10,601.0	13,935.6	9,056.0	88.5	86.4	-0.01	-4,831.9	-186.8	1,544.0	1,461.2	82.80	18.648	
15,600.0	10,601.0	14,035.6	9,056.0	90.0	88.0	-0.01	-4,931.9	-185.9	1,544.0	1,459.7	84.30	18.317	
15,700.0	10,601.0	14,135.6	9,056.0	91.5	89.5	-0.01	-5,031.9	-185.1	1,544.0	1,458.2	85.80	17.996	
15,800.0	10,601.0	14,235.6	9,056.0	93.0	91.1	-0.01	-5,131.9	-184.3	1,544.0	1,456.7	87.30	17.687	
15,900.0	10,601.0	14,335.6	9,056.0	94.5	92.6	-0.01	-5,231.9	-183.5	1,544.0	1,455.2	88.80	17.387	
16,000.0	10,601.0	14,435.6	9,056.0	96.0	94.2	-0.01	-5,331.9	-182.7	1,544.0	1,453.7	90.31	17.097	
16,100.0	10,601.0	14,535.6	9,056.0	97.5	95.7	-0.01	-5,431.8	-181.9	1,544.0	1,452.2	91.82	16.816	
16,200.0	10,601.0	14,635.6	9,056.0	99.1	97.3	-0.01	-5,531.8	-181.0	1,544.0	1,450.7	93.33	16.543	
16,300.0	10,601.0	14,735.6	9,056.0	100.6	98.8	-0.01	-5,631.8	-180.2	1,544.0	1,449.2	94.84	16.279	
16,400.0	10,601.0	14,835.6	9,056.0	102.1	100.4	-0.01	-5,731.8	-179.4	1,544.0	1,447.6	96.36	16.023	
16,500.0	10,601.0	14,935.6	9,056.0	103.7	102.0	-0.01	-5,831.8	-178.6	1,544.0	1,446.1	97.88	15.775	
16,600.0	10,601.0	15,035.6	9,056.0	105.2	103.5	-0.01	-5,931.8	-177.8	1,544.0	1,444.6	99.39	15.534	
16,700.0	10,601.0	15,135.6	9,056.0	106.7	105.1	-0.01	-6,031.8	-176.9	1,544.0	1,443.1	100.91	15.300	
16,800.0	10,601.0	15,235.6	9,056.0	108.3	106.7	-0.01	-6,131.8	-176.1	1,544.0	1,441.6	102.44	15.073	
16,900.0	10,601.0	15,335.6	9,056.0	109.8	108.3	-0.01	-6,231.8	-175.3	1,544.0	1,440.0	103.96	14.852	
17,000.0	10,601.0	15,435.6	9,056.0	111.4	109.8	-0.01	-6,331.8	-174.5	1,544.0	1,438.5	105.48	14.637	
17,100.0	10,601.0	15,535.6	9,056.0	113.0	111.4	-0.01	-6,431.8	-173.7	1,544.0	1,437.0	107.01	14.429	
17,200.0	10,601.0	15,635.6	9,056.0	114.5	113.0	-0.01	-6,531.8	-172.8	1,544.0	1,435.5	108.53	14.226	
17,300.0	10,601.0	15,735.6	9,056.0	116.1	114.6	-0.01	-6,631.8	-172.0	1,544.0	1,433.9	110.06	14.028	
17,400.0	10,601.0	15,835.6	9,056.0	117.6	116.2	-0.01	-6,731.8	-171.2	1,544.0	1,432.4	111.59	13.836	
17,500.0	10,601.0	15,935.6	9,056.0	119.2	117.8	-0.01	-6,831.8	-170.4	1,544.0	1,430.9	113.12	13.649	
17,600.0	10,601.0	16,035.6	9,056.0	120.8	119.3	-0.01	-6,931.8	-169.6	1,544.0	1,429.3	114.65	13.467	
17,700.0	10,601.0	16,135.6	9,056.0	122.3	120.9	-0.01	-7,031.8	-168.7	1,544.0	1,427.8	116.19	13.289	
17,800.0	10,601.0	16,235.6	9,056.0	123.9	122.5	-0.01	-7,131.8	-167.9	1,544.0	1,426.3	117.72	13.116	
17,900.0	10,601.0	16,335.6	9,056.0	125.5	124.1	-0.01	-7,231.8	-167.1	1,544.0	1,424.7	119.25	12.947	
18,000.0	10,601.0	16,435.6	9,056.0	127.1	125.7	-0.01	-7,331.8	-166.3	1,544.0	1,423.2	120.79	12.783	
18,100.0	10,601.0	16,535.6	9,056.0	128.6	127.3	-0.01	-7,431.8	-165.5	1,544.0	1,421.7	122.32	12.622	
18,200.0	10,601.0	16,635.6	9,056.0	130.2	128.9	-0.01	-7,531.8	-164.6	1,544.0	1,420.1	123.86	12.466	
18,300.0	10,601.0	16,735.6	9,056.0	131.8	130.5	-0.01	-7,631.8	-163.8	1,544.0	1,418.6	125.40	12.313	
18,400.0	10,601.0	16,835.6	9,056.0	133.4	132.1	-0.01	-7,731.8	-163.0	1,544.0	1,417.1	126.94	12.164	
18,500.0	10,601.0	16,935.6	9,056.0	135.0	133.7	-0.01	-7,831.8	-162.2	1,544.0	1,415.5	128.48	12.018	
18,600.0	10,601.0	17,035.6	9,056.0	136.6	135.3	-0.01	-7,931.8	-161.4	1,544.0	1,414.0	130.02	11.875	
18,700.0	10,601.0	17,135.6	9,056.0	138.1	136.9	-0.01	-8,031.8	-160.5	1,544.0	1,412.4	131.56	11.736	
18,800.0	10,601.0	17,235.6	9,056.0	139.7	138.5	-0.01	-8,131.8	-159.7	1,544.0	1,410.9	133.10	11.601	
18,900.0	10,601.0	17,335.6	9,056.0	141.3	140.2	-0.01	-8,231.8	-158.9	1,544.0	1,409.4	134.64	11.468	
19,000.0	10,601.0	17,435.6	9,056.0	142.9	141.8	-0.01	-8,331.8	-158.1	1,544.0	1,407.8	136.18	11.338	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #113H - 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
19,100.0	10,601.0	17,535.6	9,056.0	144.5	143.4	-0.01	-8,431.7	-157.3	1,544.0	1,406.3	137.73	11.211	
19,200.0	10,601.0	17,635.6	9,056.0	146.1	145.0	-0.01	-8,531.7	-156.4	1,544.0	1,404.7	139.27	11.086	
19,300.0	10,601.0	17,735.6	9,056.0	147.7	146.6	-0.01	-8,631.7	-155.6	1,544.0	1,403.2	140.81	10.965	
19,400.0	10,601.0	17,835.6	9,056.0	149.3	148.2	-0.01	-8,731.7	-154.8	1,544.0	1,401.6	142.36	10.846	
19,500.0	10,601.0	17,935.6	9,056.0	150.9	149.8	-0.01	-8,831.7	-154.0	1,544.0	1,400.1	143.90	10.729	
19,600.0	10,601.0	18,035.6	9,056.0	152.5	151.4	-0.01	-8,931.7	-153.2	1,544.0	1,398.6	145.45	10.615	
19,700.0	10,601.0	18,135.6	9,056.0	154.1	153.0	-0.01	-9,031.7	-152.3	1,544.0	1,397.0	147.00	10.504	
19,800.0	10,601.0	18,235.6	9,056.0	155.7	154.7	-0.01	-9,131.7	-151.5	1,544.0	1,395.5	148.54	10.394	
19,900.0	10,601.0	18,335.6	9,056.0	157.3	156.3	-0.01	-9,231.7	-150.7	1,544.0	1,393.9	150.09	10.287	
20,000.0	10,601.0	18,435.6	9,056.0	158.9	157.9	0.00	-9,331.7	-149.9	1,544.0	1,392.4	151.64	10.182	
20,100.0	10,601.0	18,535.6	9,056.0	160.5	159.5	0.00	-9,431.7	-149.1	1,544.0	1,390.8	153.19	10.079	
20,200.0	10,601.0	18,635.6	9,056.0	162.1	161.1	0.00	-9,531.7	-148.2	1,544.0	1,389.3	154.73	9.978	
20,300.0	10,601.0	18,735.6	9,056.0	163.7	162.8	0.00	-9,631.7	-147.4	1,544.0	1,387.7	156.28	9.879	
20,400.0	10,601.0	18,835.6	9,056.0	165.3	164.4	0.00	-9,731.7	-146.6	1,544.0	1,386.2	157.83	9.782	
20,500.0	10,601.0	18,935.6	9,056.0	167.0	166.0	0.00	-9,831.7	-145.8	1,544.0	1,384.6	159.38	9.687	
20,600.0	10,601.0	19,035.6	9,056.0	168.6	167.6	0.00	-9,931.7	-145.0	1,544.0	1,383.1	160.93	9.594	
20,700.0	10,601.0	19,135.6	9,056.0	170.2	169.2	0.00	-10,031.7	-144.1	1,544.0	1,381.5	162.48	9.502	
20,800.0	10,601.0	19,235.6	9,056.0	171.8	170.9	0.00	-10,131.7	-143.3	1,544.0	1,380.0	164.04	9.413	
20,900.0	10,601.0	19,335.6	9,056.0	173.4	172.5	0.00	-10,231.7	-142.5	1,544.0	1,378.4	165.59	9.324	
21,000.0	10,601.0	19,435.6	9,056.0	175.0	174.1	0.00	-10,331.7	-141.7	1,544.0	1,376.9	167.14	9.238	
21,100.0	10,601.0	19,535.6	9,056.0	176.6	175.7	0.00	-10,431.7	-140.9	1,544.0	1,375.3	168.69	9.153	
21,200.0	10,601.0	19,635.6	9,056.0	178.2	177.4	0.00	-10,531.7	-140.0	1,544.0	1,373.8	170.24	9.069	
21,300.0	10,601.0	19,735.6	9,056.0	179.9	179.0	0.00	-10,631.7	-139.2	1,544.0	1,372.2	171.80	8.987	
21,400.0	10,601.0	19,835.6	9,056.0	181.5	180.6	0.00	-10,731.7	-138.4	1,544.0	1,370.7	173.35	8.907	
21,500.0	10,601.0	19,935.6	9,056.0	183.1	182.2	0.00	-10,831.7	-137.6	1,544.0	1,369.1	174.90	8.828	
21,600.0	10,601.0	20,035.6	9,056.0	184.7	183.9	0.00	-10,931.7	-136.8	1,544.0	1,367.5	176.46	8.750	
21,700.0	10,601.0	20,135.6	9,056.0	186.3	185.5	0.00	-11,031.7	-135.9	1,544.0	1,366.0	178.01	8.674	
21,800.0	10,601.0	20,235.6	9,056.0	187.9	187.1	0.00	-11,131.7	-135.1	1,544.0	1,364.4	179.56	8.599	
21,900.0	10,601.0	20,335.6	9,056.0	189.6	188.7	0.00	-11,231.7	-134.3	1,544.0	1,362.9	181.12	8.525	
22,000.0	10,601.0	20,435.6	9,056.0	191.2	190.4	0.00	-11,331.7	-133.5	1,544.0	1,361.3	182.67	8.452	
22,100.0	10,601.0	20,535.6	9,056.0	192.8	192.0	0.00	-11,431.6	-132.7	1,544.0	1,359.8	184.23	8.381	
22,200.0	10,601.0	20,635.6	9,056.0	194.4	193.6	0.00	-11,531.6	-131.8	1,544.0	1,358.2	185.78	8.311	
22,300.0	10,601.0	20,735.6	9,056.0	196.1	195.3	0.00	-11,631.6	-131.0	1,544.0	1,356.7	187.34	8.242	
22,400.0	10,601.0	20,835.6	9,056.0	197.7	196.9	0.00	-11,731.6	-130.2	1,544.0	1,355.1	188.89	8.174	
22,500.0	10,601.0	20,935.6	9,056.0	199.3	198.5	0.00	-11,831.6	-129.4	1,544.0	1,353.6	190.45	8.107	
22,600.0	10,601.0	21,035.6	9,056.0	200.9	200.2	0.00	-11,931.6	-128.6	1,544.0	1,352.0	192.00	8.041	
22,700.0	10,601.0	21,135.6	9,056.0	202.5	201.8	0.00	-12,031.6	-127.7	1,544.0	1,350.4	193.56	7.977	
22,800.0	10,601.0	21,235.6	9,056.0	204.2	203.4	0.00	-12,131.6	-126.9	1,544.0	1,348.9	195.12	7.913	
22,900.0	10,601.0	21,335.6	9,056.0	205.8	205.0	0.00	-12,231.6	-126.1	1,544.0	1,347.3	196.67	7.851	
23,000.0	10,601.0	21,435.6	9,056.0	207.4	206.7	0.00	-12,331.6	-125.3	1,544.0	1,345.8	198.23	7.789	
23,083.3	10,601.0	21,518.9	9,056.0	208.6	208.0	0.00	-12,414.9	-124.6	1,544.0	1,344.8	199.21	7.751	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #123H - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.0 usft

Survey Program: 143-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	-90.40	-0.6	-80.0	80.0				
100.0	100.0	97.2	97.2	0.1	0.1	-90.25	-0.4	-79.8	79.8	79.6	0.27	297.853	
200.0	200.0	197.3	197.3	0.5	0.4	-89.85	0.2	-79.5	79.5	78.6	0.89	89.625	
300.0	300.0	297.5	297.4	0.8	0.8	-89.41	0.8	-79.0	79.0	77.4	1.60	49.250	
400.0	400.0	397.7	397.7	1.2	1.1	-88.99	1.4	-78.3	78.3	76.0	2.32	33.740	
500.0	500.0	498.0	498.0	1.6	1.5	-88.72	1.7	-77.2	77.2	74.2	3.04	25.418	
600.0	600.0	597.8	597.8	1.9	1.8	-88.67	1.8	-75.9	75.9	72.2	3.75	20.271	
700.0	700.0	697.6	697.5	2.3	2.2	-88.91	1.4	-75.0	75.1	70.6	4.46	16.847	
800.0	800.0	797.5	797.5	2.6	2.5	-89.38	0.8	-74.4	74.4	69.2	5.16	14.406	
900.0	900.0	897.5	897.4	3.0	2.9	-89.99	0.0	-73.8	73.8	67.9	5.87	12.561	
1,000.0	1,000.0	997.1	997.0	3.4	3.2	-90.69	-0.9	-73.5	73.5	66.9	6.58	11.174	
1,009.4	1,009.4	1,006.4	1,006.4	3.4	3.3	-90.76	-1.0	-73.5	73.5	66.8	6.64	11.062	CC
1,100.0	1,100.0	1,096.8	1,096.8	3.7	3.6	-91.48	-1.9	-73.6	73.7	66.4	7.28	10.119	
1,200.0	1,200.0	1,196.5	1,196.5	4.1	3.9	-92.57	-3.3	-74.0	74.1	66.1	7.98	9.281	
1,300.0	1,300.0	1,295.9	1,295.8	4.4	4.3	-93.66	-4.8	-75.1	75.2	66.5	8.68	8.663	
1,400.0	1,400.0	1,395.4	1,395.3	4.8	4.6	-94.84	-6.5	-76.8	77.1	67.7	9.39	8.219	
1,500.0	1,500.0	1,494.9	1,494.8	5.1	4.9	-96.88	-9.5	-79.0	79.6	69.5	10.09	7.893	
1,600.0	1,600.0	1,594.2	1,593.9	5.5	5.3	-99.35	-13.5	-81.7	82.9	72.1	10.79	7.680	
1,700.0	1,700.0	1,693.4	1,692.9	5.9	5.6	-101.50	-17.3	-85.2	87.1	75.6	11.50	7.575	
1,800.0	1,800.0	1,794.9	1,794.4	6.2	6.0	-103.39	-21.0	-88.4	90.9	78.7	12.22	7.442	
1,900.0	1,900.0	1,896.8	1,896.2	6.6	6.4	-105.14	-24.2	-89.6	92.8	79.9	12.94	7.172	
2,000.0	2,000.0	1,998.3	1,997.7	6.9	6.7	-106.17	-25.9	-89.3	92.9	79.3	13.66	6.805	
2,100.0	2,100.0	2,099.2	2,098.5	7.3	7.1	-106.22	-25.5	-87.8	91.5	77.1	14.37	6.367	
2,200.0	2,200.0	2,198.6	2,198.0	7.7	7.4	-106.37	-25.4	-86.4	90.1	75.0	15.07	5.976	
2,300.0	2,300.0	2,298.1	2,297.4	8.0	7.8	-106.95	-26.0	-85.4	89.3	73.5	15.78	5.658	
2,388.5	2,388.5	2,386.2	2,385.5	8.3	8.1	-107.79	-27.2	-84.8	89.1	72.7	16.42	5.427	
2,400.0	2,400.0	2,397.6	2,396.9	8.4	8.1	-107.92	-27.4	-84.8	89.1	72.6	16.50	5.400	
2,500.0	2,500.0	2,497.3	2,496.6	8.7	8.5	-109.23	-29.4	-84.4	89.4	72.2	17.21	5.193	
2,600.0	2,600.0	2,597.2	2,596.5	9.1	8.8	-110.71	-31.8	-84.1	89.9	72.0	17.93	5.014	
2,700.0	2,700.0	2,697.9	2,697.1	9.4	9.2	-112.00	-33.8	-83.7	90.3	71.6	18.64	4.844	
2,800.0	2,800.0	2,799.1	2,798.3	9.8	9.5	-111.81	-33.2	-83.0	89.5	70.1	19.35	4.624	
2,900.0	2,900.0	2,899.1	2,898.3	10.2	9.9	-110.44	-30.7	-82.3	87.8	67.8	20.05	4.382	
3,000.0	3,000.0	2,998.7	2,997.8	10.5	10.2	-108.89	-28.0	-81.9	86.6	65.9	20.74	4.176	
3,100.0	3,100.0	3,098.6	3,097.8	10.9	10.6	-119.04	-25.6	-81.8	86.1	64.7	21.44	4.017	
3,107.6	3,107.6	3,106.2	3,105.3	10.9	10.6	-119.02	-25.5	-81.8	86.1	64.6	21.50	4.007	
3,200.0	3,200.0	3,198.6	3,197.8	11.2	10.9	-119.40	-23.7	-81.4	86.5	64.3	22.14	3.906	
3,300.0	3,299.9	3,299.3	3,298.5	11.6	11.3	-121.35	-22.4	-80.4	87.3	64.5	22.85	3.821	
3,400.0	3,399.7	3,399.9	3,399.0	12.0	11.6	-125.10	-22.2	-78.1	88.4	64.9	23.55	3.755	
3,500.0	3,499.4	3,499.1	3,498.2	12.3	12.0	-129.34	-22.2	-75.7	90.5	66.2	24.26	3.729	
3,600.0	3,599.2	3,598.6	3,597.6	12.7	12.3	-133.18	-22.2	-73.7	93.4	68.4	24.97	3.740	
3,700.0	3,698.9	3,698.4	3,697.4	13.0	12.7	-136.95	-22.4	-71.7	96.8	71.1	25.68	3.769	
3,800.0	3,798.7	3,798.5	3,797.5	13.4	13.0	-140.73	-23.0	-69.4	100.6	74.2	26.39	3.810	
3,900.0	3,898.5	3,899.7	3,898.6	13.8	13.4	-143.31	-21.6	-67.4	103.7	76.6	27.10	3.826	
4,000.0	3,998.2	4,000.2	3,999.1	14.1	13.7	-144.53	-17.8	-66.0	105.7	77.9	27.80	3.802	
4,100.0	4,098.0	4,099.4	4,098.2	14.5	14.1	-145.74	-14.3	-64.8	108.1	79.6	28.51	3.792	
4,200.0	4,197.7	4,198.8	4,197.6	14.8	14.4	-147.13	-11.5	-63.7	111.2	82.0	29.22	3.805	
4,300.0	4,297.5	4,298.3	4,297.0	15.2	14.8	-148.41	-9.0	-62.9	114.7	84.8	29.93	3.832	
4,400.0	4,397.2	4,397.8	4,396.5	15.6	15.1	-149.59	-6.6	-62.5	118.6	88.0	30.63	3.872	
4,500.0	4,497.0	4,497.3	4,496.0	15.9	15.4	-150.76	-4.7	-62.1	122.9	91.6	31.34	3.922	
4,600.0	4,596.8	4,598.7	4,597.3	16.3	15.8	-151.63	-2.1	-61.9	127.0	95.0	32.05	3.963	
4,700.0	4,696.5	4,700.7	4,699.2	16.7	16.2	-151.48	3.1	-62.4	129.5	96.8	32.75	3.956	
4,800.0	4,796.3	4,800.4	4,798.7	17.0	16.5	-150.80	9.6	-63.4	131.3	97.8	33.46	3.924	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #123H - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.0 usft

Survey Program: 143-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	4,896.0	4,899.8	4,897.9	17.4	16.8	-150.30	15.5	-64.3	133.5	99.3	34.17	3.906	
5,000.0	4,995.8	5,002.2	5,000.1	17.8	17.2	-149.51	22.5	-65.4	135.0	100.1	34.87	3.871	
5,100.0	5,095.5	5,104.6	5,102.0	18.1	17.6	-148.00	32.1	-66.4	134.7	99.2	35.57	3.788	
5,200.0	5,195.3	5,205.5	5,202.3	18.5	17.9	-145.81	43.6	-67.8	133.4	97.1	36.28	3.676	
5,300.0	5,295.0	5,306.0	5,301.9	18.9	18.3	-142.93	56.6	-69.6	131.4	94.4	37.00	3.552	
5,400.0	5,394.8	5,405.4	5,400.4	19.2	18.6	-139.93	69.6	-71.5	129.8	92.1	37.74	3.440	
5,500.0	5,494.6	5,504.5	5,498.7	19.6	19.0	-137.04	82.1	-73.4	128.9	90.4	38.48	3.350	
5,540.2	5,534.7	5,544.3	5,538.2	19.7	19.1	-135.92	86.9	-74.2	128.8	90.0	38.78	3.321	
5,600.0	5,594.3	5,603.3	5,596.7	20.0	19.4	-134.29	93.9	-75.6	129.0	89.8	39.22	3.289	
5,700.0	5,694.1	5,703.0	5,695.8	20.3	19.7	-131.64	105.2	-78.3	130.0	90.1	39.96	3.254	
5,800.0	5,793.8	5,803.8	5,795.8	20.7	20.1	-128.69	117.6	-80.9	130.8	90.1	40.70	3.214	
5,900.0	5,893.6	5,903.7	5,894.8	21.1	20.4	-125.49	130.7	-83.3	131.4	89.9	41.44	3.170	
6,000.0	5,993.3	6,002.9	5,993.2	21.4	20.8	-122.54	143.3	-85.7	132.6	90.5	42.19	3.144	
6,100.0	6,093.1	6,104.6	6,094.1	21.8	21.2	-119.75	155.8	-87.9	134.0	91.0	42.93	3.121	
6,200.0	6,192.9	6,207.5	6,196.1	22.2	21.6	-116.87	169.4	-88.0	133.5	89.8	43.67	3.056	
6,300.0	6,292.6	6,307.2	6,294.8	22.5	21.9	-114.05	182.9	-86.8	132.0	87.5	44.42	2.971	
6,400.0	6,392.4	6,406.2	6,393.1	22.9	22.3	-111.53	195.5	-86.0	131.3	86.1	45.18	2.906	
6,441.3	6,433.6	6,447.3	6,433.8	23.0	22.5	-110.58	200.4	-85.8	131.3	85.8	45.49	2.885	
6,500.0	6,492.1	6,505.6	6,491.8	23.3	22.7	-109.34	207.2	-85.5	131.3	85.4	45.93	2.860	
6,600.0	6,591.9	6,605.1	6,590.7	23.6	23.1	-107.54	218.0	-85.2	131.9	85.2	46.67	2.826	
6,700.0	6,691.6	6,704.9	6,689.9	24.0	23.4	-106.18	227.9	-85.1	132.8	85.3	47.41	2.800	
6,800.0	6,791.4	6,804.7	6,789.3	24.4	23.8	-105.31	236.6	-85.0	133.8	85.7	48.15	2.779	
6,900.0	6,891.1	6,904.4	6,888.8	24.7	24.2	-104.90	244.3	-84.9	135.1	86.2	48.89	2.763	
7,000.0	6,990.9	7,004.2	6,988.4	25.1	24.5	-104.91	251.1	-84.9	136.5	86.8	49.62	2.750	
7,020.0	7,010.8	7,024.2	7,008.2	25.2	24.6	-104.95	252.3	-85.0	136.8	87.0	49.77	2.748	
7,100.0	7,090.7	7,104.0	7,088.0	25.5	24.9	-104.86	257.1	-85.1	137.8	87.4	50.35	2.736	
7,200.0	7,190.6	7,204.4	7,188.2	25.8	25.3	-104.02	262.7	-85.2	138.5	87.4	51.08	2.712	
7,286.6	7,277.3	7,292.3	7,276.1	26.1	25.6	-92.02	265.7	-84.6	138.0	86.3	51.70	2.670	
7,300.0	7,290.6	7,305.9	7,289.6	26.2	25.6	-91.90	266.0	-84.5	137.8	86.0	51.79	2.661	
7,400.0	7,390.6	7,406.4	7,390.1	26.5	26.0	-91.49	267.0	-82.7	136.0	83.5	52.50	2.591	
7,500.0	7,490.6	7,505.9	7,489.6	26.9	26.3	-91.23	267.7	-81.1	134.4	81.2	53.20	2.526	
7,600.0	7,590.6	7,605.6	7,589.3	27.3	26.7	-91.00	268.3	-79.8	133.1	79.2	53.91	2.469	
7,700.0	7,690.6	7,705.6	7,689.2	27.6	27.0	-90.83	268.7	-78.6	131.9	77.3	54.61	2.415	
7,800.0	7,790.6	7,805.4	7,789.0	28.0	27.4	-90.75	268.9	-77.4	130.7	75.4	55.31	2.363	
7,900.0	7,890.6	7,905.1	7,888.8	28.3	27.7	-90.70	269.0	-76.4	129.7	73.7	56.01	2.316	
8,000.0	7,990.6	8,004.9	7,988.6	28.7	28.1	-90.67	269.1	-75.6	128.9	72.2	56.72	2.273	
8,100.0	8,090.6	8,104.7	8,088.3	29.0	28.4	-90.63	269.2	-75.0	128.3	70.9	57.42	2.235	
8,200.0	8,190.6	8,205.5	8,189.1	29.4	28.8	-90.55	269.4	-74.2	127.5	69.4	58.12	2.193	
8,300.0	8,290.6	8,306.4	8,290.0	29.7	29.1	-90.38	269.7	-72.6	126.0	67.1	58.83	2.141	
8,400.0	8,390.6	8,404.4	8,388.1	30.1	29.4	-90.38	269.7	-71.6	124.9	65.3	59.52	2.098	
8,423.7	8,414.3	8,427.7	8,411.3	30.2	29.5	-90.44	269.6	-71.5	124.8	65.1	59.69	2.091	
8,500.0	8,490.6	8,502.9	8,486.5	30.4	29.8	-90.78	268.9	-71.9	125.2	65.0	60.21	2.080	
8,600.0	8,590.6	8,603.7	8,587.3	30.8	30.1	-91.44	267.4	-72.5	125.9	65.0	60.90	2.066	
8,700.0	8,690.6	8,704.3	8,687.9	31.2	30.5	-92.26	265.6	-72.5	125.8	64.3	61.60	2.043	
8,800.0	8,790.6	8,804.2	8,787.8	31.5	30.8	-93.13	263.7	-72.2	125.7	63.4	62.29	2.018	
8,885.2	8,875.9	8,889.3	8,872.9	31.8	31.1	-93.88	262.1	-72.1	125.6	62.8	62.88	1.998	
8,900.0	8,890.6	8,904.0	8,887.6	31.9	31.1	-93.99	261.8	-72.1	125.7	62.7	62.98	1.995	
9,000.0	8,990.6	9,003.9	8,987.4	32.2	31.5	-94.68	260.3	-72.1	125.8	62.2	63.67	1.976	
9,100.0	9,090.6	9,103.9	9,087.4	32.6	31.8	-95.37	258.8	-72.1	125.9	61.6	64.36	1.957	
9,200.0	9,190.6	9,203.6	9,187.1	32.9	32.1	-96.12	257.1	-72.2	126.2	61.2	65.05	1.941	
9,300.0	9,290.6	9,303.1	9,286.6	33.3	32.5	-97.30	254.5	-72.5	126.8	61.1	65.74	1.930	ES, SF
9,400.0	9,390.6	9,400.6	9,383.9	33.6	32.8	-99.55	249.3	-73.2	128.4	62.0	66.38	1.934	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #123H - Wellbore #1 - Wellbore #1

Offset Site Error: 0.0 usft

Survey Program: 143-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
9,500.0	9,490.6	9,503.0	9,484.8	34.0	33.1	-106.94	232.1	-73.0	132.0	65.0	67.04	1.969	
9,600.0	9,590.6	9,589.7	9,566.8	34.3	33.4	-118.70	204.8	-66.8	138.5	71.7	66.80	2.073	
9,700.0	9,690.6	9,663.2	9,632.4	34.7	33.6	-130.03	171.9	-64.2	163.1	98.9	64.22	2.540	
9,800.0	9,790.6	9,727.2	9,684.9	35.1	33.7	-139.37	135.5	-62.6	205.5	145.5	60.05	3.422	
9,900.0	9,890.6	9,784.6	9,728.0	35.4	33.9	-146.71	97.7	-60.2	261.3	205.3	55.96	4.669	
10,000.0	9,990.6	9,832.1	9,760.5	35.8	34.0	-151.98	63.2	-57.1	326.8	274.7	52.08	6.275	
10,037.4	10,028.0	9,847.6	9,770.4	35.9	34.0	-153.56	51.3	-55.7	353.3	302.5	50.74	6.963	
10,050.0	10,040.6	9,852.7	9,773.5	35.9	34.0	9.62	47.4	-55.3	362.3	312.0	50.29	7.205	
10,100.0	10,090.5	9,872.7	9,785.6	36.1	34.1	7.16	31.6	-53.2	397.3	348.8	48.50	8.192	
10,150.0	10,139.9	9,892.6	9,797.0	36.2	34.1	5.17	15.4	-50.9	430.8	384.1	46.68	9.229	
10,200.0	10,188.5	9,909.0	9,805.9	36.4	34.2	3.75	1.8	-48.8	462.8	418.2	44.53	10.392	
10,250.0	10,235.8	9,938.0	9,820.7	36.5	34.3	1.81	-22.7	-44.6	492.8	449.3	43.45	11.340	
10,300.0	10,281.5	9,962.6	9,832.6	36.6	34.3	0.37	-43.9	-40.4	520.8	478.8	41.95	12.414	
10,350.0	10,325.4	9,987.1	9,843.7	36.7	34.4	-0.92	-65.2	-35.7	546.7	506.3	40.42	13.525	
10,400.0	10,366.9	10,004.0	9,851.0	36.9	34.4	-1.72	-80.0	-32.1	570.6	532.3	38.37	14.873	
10,450.0	10,405.9	10,030.4	9,861.5	37.0	34.5	-2.91	-103.5	-26.3	592.5	555.5	37.03	16.001	
10,500.0	10,442.0	10,050.4	9,868.7	37.1	34.6	-3.73	-121.6	-21.6	612.6	577.3	35.35	17.331	
10,550.0	10,474.9	10,070.3	9,875.2	37.2	34.6	-4.49	-139.8	-16.9	630.8	597.1	33.79	18.670	
10,600.0	10,504.5	10,098.0	9,883.2	37.3	34.7	-5.57	-165.4	-10.1	647.3	614.4	32.83	19.715	
10,650.0	10,530.4	10,098.0	9,883.2	37.4	34.7	-5.43	-165.4	-10.1	661.8	631.1	30.64	21.598	
10,700.0	10,552.5	10,130.3	9,890.8	37.5	34.8	-6.65	-195.8	-2.3	674.0	643.7	30.32	22.228	
10,750.0	10,570.6	10,150.7	9,894.8	37.6	34.9	-7.34	-215.3	2.5	684.4	654.7	29.72	23.031	
10,800.0	10,584.6	10,171.3	9,898.2	37.7	35.0	-8.04	-235.1	7.1	692.8	663.4	29.43	23.538	
10,850.0	10,594.3	10,194.0	9,901.0	37.8	35.0	-8.82	-257.0	11.9	699.2	669.7	29.53	23.678	
10,900.0	10,599.7	10,222.3	9,903.9	37.9	35.1	-9.83	-284.6	17.8	703.2	673.2	30.04	23.409	
10,937.4	10,601.0	10,245.5	9,905.8	38.0	35.2	-10.70	-307.1	22.6	704.5	673.8	30.62	23.008	
11,000.0	10,601.0	10,289.0	9,908.6	38.2	35.4	-12.38	-349.6	31.7	706.4	674.6	31.86	22.170	
11,100.0	10,601.0	10,372.3	9,912.8	38.5	35.7	-15.42	-431.0	49.1	712.5	678.2	34.31	20.763	
11,200.0	10,601.0	10,454.2	9,915.8	38.9	36.1	-18.06	-511.4	64.2	720.6	683.8	36.79	19.586	
11,300.0	10,601.0	10,545.9	9,916.6	39.4	36.6	-20.38	-602.2	77.2	730.3	691.2	39.09	18.685	
11,400.0	10,601.0	10,634.1	9,917.3	39.9	37.2	-22.41	-689.4	90.4	740.4	699.0	41.34	17.910	
11,500.0	10,601.0	10,748.6	9,917.7	40.4	37.9	-24.57	-802.7	106.9	750.0	706.5	43.57	17.213	
11,600.0	10,601.0	10,856.4	9,917.2	41.0	38.7	-25.67	-910.1	114.2	756.3	711.0	45.23	16.719	
11,700.0	10,601.0	10,973.0	9,913.1	41.7	39.6	-25.52	-1,026.5	109.4	759.0	713.0	46.03	16.488	
11,766.0	10,601.0	11,027.9	9,910.9	42.2	40.0	-25.29	-1,081.4	106.6	760.0	713.5	46.50	16.345	
11,800.0	10,601.0	11,057.2	9,909.7	42.4	40.2	-25.19	-1,110.6	106.0	760.8	714.0	46.77	16.265	
11,900.0	10,601.0	11,151.4	9,905.9	43.2	41.0	-24.95	-1,204.7	105.0	763.7	716.0	47.67	16.018	
12,000.0	10,601.0	11,260.2	9,901.8	44.0	42.0	-24.76	-1,313.5	105.0	766.8	718.1	48.68	15.752	
12,092.0	10,601.0	11,368.2	9,902.5	44.7	43.1	-24.86	-1,421.3	107.1	766.5	716.6	49.92	15.355	
12,100.0	10,601.0	11,374.1	9,902.5	44.8	43.1	-24.87	-1,427.3	107.2	766.5	716.5	50.02	15.325	
12,200.0	10,601.0	11,465.3	9,901.4	45.7	44.0	-24.92	-1,518.4	109.2	768.1	716.8	51.30	14.974	
12,300.0	10,601.0	11,568.0	9,901.4	46.6	45.1	-25.01	-1,621.1	111.3	768.6	715.9	52.68	14.589	
12,400.0	10,601.0	11,659.9	9,899.9	47.6	46.1	-25.02	-1,713.0	113.0	770.6	716.5	54.02	14.264	
12,500.0	10,601.0	11,765.9	9,898.6	48.6	47.2	-25.09	-1,818.9	115.5	772.3	716.8	55.49	13.918	
12,600.0	10,601.0	11,877.2	9,898.9	49.7	48.5	-25.27	-1,930.2	119.0	773.0	715.9	57.12	13.533	
12,700.0	10,601.0	12,035.5	9,907.9	50.8	50.4	-25.58	-2,088.1	120.6	767.3	708.1	59.19	12.964	
12,800.0	10,601.0	12,116.9	9,912.5	51.9	51.4	-25.55	-2,169.4	118.7	760.9	700.3	60.55	12.567	
12,900.0	10,601.0	12,200.1	9,915.0	53.0	52.4	-25.45	-2,252.5	116.6	756.7	694.8	61.88	12.227	
13,000.0	10,601.0	12,280.3	9,916.0	54.2	53.4	-25.40	-2,332.7	116.1	754.9	691.6	63.29	11.927	
13,100.0	10,601.0	12,384.9	9,916.8	55.4	54.7	-25.41	-2,437.4	116.7	754.1	689.3	64.90	11.621	
13,200.0	10,601.0	12,481.1	9,918.0	56.6	55.9	-25.46	-2,533.5	117.7	753.1	686.6	66.54	11.319	
13,219.4	10,601.0	12,496.3	9,918.1	56.8	56.1	-25.47	-2,548.7	117.9	753.1	686.2	66.84	11.267	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #123H - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.0 usft

Survey Program: 143-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
13,300.0	10,601.0	12,562.0	9,917.4	57.8	57.0	-25.48	-2,614.4	119.0	754.0	685.9	68.10	11.073	
13,400.0	10,601.0	12,642.3	9,914.7	59.1	58.0	-25.45	-2,694.7	120.5	757.5	687.9	69.63	10.879	
13,500.0	10,601.0	12,740.4	9,910.2	60.3	59.3	-25.41	-2,792.7	122.9	762.4	691.1	71.24	10.702	
13,600.0	10,601.0	12,874.2	9,908.2	61.6	61.2	-25.58	-2,926.3	127.4	764.7	691.4	73.24	10.440	
13,700.0	10,601.0	12,984.6	9,910.0	62.9	62.7	-25.88	-3,036.6	131.8	764.6	689.3	75.33	10.151	
13,800.0	10,601.0	13,088.0	9,914.8	64.3	64.1	-26.43	-3,139.7	138.5	763.0	685.3	77.71	9.818	
13,900.0	10,601.0	13,187.9	9,918.4	65.6	65.5	-26.87	-3,239.4	144.2	761.9	681.9	79.99	9.525	
14,000.0	10,601.0	13,296.9	9,921.5	66.9	67.1	-27.08	-3,348.2	146.5	760.0	677.9	82.04	9.263	
14,100.0	10,601.0	13,396.8	9,925.1	68.3	68.5	-27.29	-3,448.1	148.6	757.3	673.2	84.10	9.006	
14,200.0	10,601.0	13,479.3	9,926.1	69.7	69.7	-27.27	-3,530.5	148.5	755.8	670.0	85.80	8.810	
14,207.2	10,601.0	13,485.0	9,926.1	69.8	69.8	-27.26	-3,536.3	148.4	755.8	669.9	85.91	8.798	
14,300.0	10,601.0	13,575.9	9,924.5	71.1	71.1	-27.04	-3,627.1	146.8	756.2	668.9	87.30	8.662	
14,400.0	10,601.0	13,656.8	9,922.5	72.5	72.2	-26.86	-3,707.9	145.7	757.4	668.7	88.77	8.532	
14,500.0	10,601.0	13,741.5	9,918.1	73.9	73.4	-26.63	-3,792.6	145.3	761.5	671.3	90.19	8.443	
14,600.0	10,601.0	13,850.1	9,912.3	75.3	75.0	-26.42	-3,901.0	146.0	766.2	674.4	91.80	8.347	
14,700.0	10,601.0	13,957.8	9,908.4	76.8	76.6	-26.26	-4,008.7	146.3	769.2	675.7	93.44	8.231	
14,800.0	10,601.0	14,074.6	9,905.3	78.2	78.3	-26.01	-4,125.4	145.1	770.8	675.8	95.03	8.111	
14,900.0	10,601.0	14,179.3	9,902.4	79.6	79.9	-25.63	-4,230.0	141.6	771.4	675.1	96.34	8.007	
15,000.0	10,601.0	14,286.4	9,901.1	81.1	81.4	-25.22	-4,337.0	137.0	770.3	672.7	97.62	7.891	
15,100.0	10,601.0	14,380.5	9,899.5	82.6	82.8	-24.86	-4,431.0	133.2	769.8	670.9	98.90	7.784	
15,200.0	10,601.0	14,489.2	9,898.8	84.0	84.4	-24.65	-4,539.6	131.3	769.3	668.8	100.46	7.658	
15,300.0	10,601.0	14,593.2	9,901.4	85.5	86.0	-24.81	-4,643.6	133.4	767.5	664.9	102.55	7.484	
15,400.0	10,601.0	14,697.9	9,905.2	87.0	87.6	-25.12	-4,748.2	137.1	765.4	660.5	104.89	7.297	
15,500.0	10,601.0	14,798.9	9,909.9	88.5	89.2	-25.53	-4,848.9	141.7	762.8	655.4	107.38	7.104	
15,600.0	10,601.0	14,882.3	9,912.2	90.0	90.4	-25.74	-4,932.3	144.4	761.3	651.8	109.52	6.952	
15,700.0	10,601.0	14,995.8	9,913.7	91.5	92.2	-25.81	-5,045.7	145.6	760.3	648.7	111.56	6.815	
15,780.2	10,601.0	15,059.5	9,914.4	92.7	93.1	-25.84	-5,109.5	146.3	759.5	646.5	113.06	6.718	
15,800.0	10,601.0	15,075.8	9,914.4	93.0	93.4	-25.84	-5,125.7	146.4	759.6	646.2	113.42	6.697	
15,900.0	10,601.0	15,161.9	9,913.0	94.5	94.7	-25.79	-5,211.8	147.0	761.0	645.8	115.13	6.609	
16,000.0	10,601.0	15,253.1	9,909.8	96.0	96.1	-25.65	-5,303.0	147.3	763.9	647.1	116.73	6.544	
16,100.0	10,601.0	15,346.2	9,905.6	97.5	97.5	-25.48	-5,396.0	147.6	767.8	649.5	118.28	6.491	
16,200.0	10,601.0	15,462.8	9,900.9	99.1	99.3	-25.33	-5,512.5	148.4	771.3	651.3	120.03	6.426	
16,300.0	10,601.0	15,578.5	9,899.6	100.6	101.1	-25.30	-5,628.1	149.6	772.5	650.5	121.96	6.334	
16,400.0	10,601.0	15,686.4	9,900.7	102.1	102.8	-25.38	-5,736.0	151.1	771.8	647.8	124.03	6.223	
16,500.0	10,601.0	15,779.5	9,901.3	103.7	104.3	-25.40	-5,829.1	151.9	771.3	645.3	125.95	6.124	
16,500.3	10,601.0	15,779.7	9,901.3	103.7	104.3	-25.40	-5,829.4	151.9	771.3	645.3	125.95	6.123	
16,600.0	10,601.0	15,869.9	9,900.5	105.2	105.7	-25.36	-5,919.6	152.5	772.0	644.2	127.74	6.043	
16,700.0	10,601.0	15,973.0	9,898.6	106.7	107.3	-25.26	-6,022.6	152.7	773.4	643.9	129.46	5.974	
16,800.0	10,601.0	16,087.7	9,898.7	108.3	109.1	-25.22	-6,137.3	153.0	773.0	641.7	131.37	5.885	
16,900.0	10,601.0	16,196.8	9,901.0	109.8	110.8	-25.35	-6,246.3	154.8	771.4	637.9	133.56	5.776	
17,000.0	10,601.0	16,297.8	9,903.9	111.4	112.4	-25.46	-6,347.3	155.9	769.0	633.3	135.69	5.667	
17,100.0	10,601.0	16,387.5	9,905.7	113.0	113.8	-25.53	-6,436.9	156.7	767.2	629.5	137.71	5.571	
17,144.3	10,601.0	16,423.9	9,906.0	113.6	114.4	-25.54	-6,473.4	157.1	766.9	628.4	138.55	5.535	
17,200.0	10,601.0	16,465.6	9,905.7	114.5	115.0	-25.54	-6,515.1	157.6	767.4	627.9	139.54	5.499	
17,300.0	10,601.0	16,590.2	9,904.7	116.1	117.0	-25.68	-6,639.6	161.1	769.3	627.5	141.87	5.423	
17,400.0	10,601.0	16,715.8	9,913.3	117.6	119.0	-26.30	-6,764.8	167.2	764.6	619.5	145.12	5.268	
17,483.3	10,601.0	16,763.4	9,914.9	118.9	119.7	-26.41	-6,812.3	168.4	762.6	615.7	146.92	5.191	
17,500.0	10,601.0	16,773.0	9,914.9	119.2	119.9	-26.41	-6,821.9	168.5	762.7	615.5	147.20	5.181	
17,600.0	10,601.0	16,856.8	9,912.0	120.8	121.2	-26.25	-6,905.6	168.3	765.2	616.5	148.70	5.146	
17,700.0	10,601.0	16,972.4	9,908.0	122.3	123.0	-26.00	-7,021.1	167.4	767.7	617.4	150.23	5.110	
17,800.0	10,601.0	17,076.2	9,907.2	123.9	124.7	-25.97	-7,124.9	168.3	768.4	616.2	152.14	5.050	
17,900.0	10,601.0	17,144.9	9,906.6	125.5	125.8	-26.14	-7,193.5	171.7	771.0	616.8	154.19	5.000	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #123H - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.0 usft

Survey Program: 143-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
18,000.0	10,601.0	17,256.8	9,904.1	127.1	127.6	-26.51	-7,305.1	179.4	775.8	618.7	157.10	4.938	
18,100.0	10,601.0	17,407.9	9,906.9	128.6	130.0	-26.78	-7,456.1	183.4	774.6	614.7	159.93	4.844	
18,200.0	10,601.0	17,520.8	9,908.9	130.2	131.7	-26.38	-7,568.8	177.2	770.2	609.3	160.95	4.786	
18,300.0	10,601.0	17,622.6	9,911.1	131.8	133.3	-25.92	-7,670.3	170.1	764.8	602.9	161.85	4.725	
18,379.8	10,601.0	17,661.2	9,911.2	133.1	133.9	-25.74	-7,708.8	167.8	762.4	599.4	162.97	4.678	
18,400.0	10,601.0	17,669.7	9,910.9	133.4	134.1	-25.70	-7,717.4	167.3	762.6	599.4	163.20	4.673	
18,500.0	10,601.0	17,754.4	9,905.6	135.0	135.4	-25.35	-7,801.9	165.4	766.7	602.5	164.18	4.670	
18,600.0	10,601.0	17,866.6	9,902.9	136.6	137.2	-25.29	-7,914.0	166.8	769.0	602.9	166.11	4.629	
18,700.0	10,601.0	17,970.9	9,901.1	138.1	138.9	-25.27	-8,018.3	168.1	770.7	602.6	168.04	4.586	
18,800.0	10,601.0	18,071.1	9,899.8	139.7	140.5	-25.24	-8,118.5	169.2	772.0	602.1	169.92	4.543	
18,900.0	10,601.0	18,185.6	9,898.9	141.3	142.3	-25.20	-8,232.9	169.9	772.6	600.8	171.84	4.496	
19,000.0	10,601.0	18,314.1	9,902.0	142.9	144.4	-25.22	-8,361.4	169.8	770.0	596.2	173.85	4.429	
19,100.0	10,601.0	18,398.9	9,905.6	144.5	145.7	-25.30	-8,446.1	170.0	766.0	590.0	176.02	4.352	
19,148.9	10,601.0	18,430.7	9,906.1	145.3	146.2	-25.33	-8,477.9	170.5	765.5	588.4	177.01	4.324	
19,200.0	10,601.0	18,469.6	9,906.0	146.1	146.9	-25.37	-8,516.8	171.4	766.0	588.0	178.02	4.303	
19,300.0	10,601.0	18,573.4	9,905.3	147.7	148.5	-25.52	-8,620.6	174.8	767.6	587.2	180.39	4.255	
19,400.0	10,601.0	18,685.5	9,907.0	149.3	150.4	-25.80	-8,732.6	179.1	767.5	584.3	183.15	4.190	
19,459.2	10,601.0	18,742.1	9,907.6	150.3	151.3	-25.87	-8,789.1	180.3	767.3	582.8	184.49	4.159	
19,500.0	10,601.0	18,774.0	9,907.4	150.9	151.8	-25.87	-8,821.0	180.6	767.5	582.3	185.23	4.144	
19,600.0	10,601.0	18,862.1	9,904.5	152.5	153.2	-25.67	-8,909.0	179.8	769.7	583.1	186.57	4.125	
19,700.0	10,601.0	18,973.2	9,901.1	154.1	155.0	-25.43	-9,020.1	178.7	771.6	583.7	187.99	4.105	
19,800.0	10,601.0	19,071.3	9,899.5	155.7	156.5	-25.28	-9,118.2	178.1	772.5	582.9	189.54	4.076	
19,900.0	10,601.0	19,164.9	9,896.6	157.3	158.0	-25.08	-9,211.7	177.2	774.5	583.6	190.89	4.057	
20,000.0	10,601.0	19,330.3	9,902.8	158.9	160.7	-25.67	-9,376.5	184.5	772.8	578.3	194.54	3.973	
20,100.0	10,601.0	19,409.1	9,909.7	160.5	162.0	-26.28	-9,454.7	191.0	768.1	569.8	198.34	3.873	
20,200.0	10,601.0	19,494.6	9,914.0	162.1	163.4	-26.70	-9,539.9	195.7	765.7	564.2	201.52	3.800	
20,261.7	10,601.0	19,545.2	9,914.8	163.1	164.2	-26.78	-9,590.5	197.0	765.3	562.3	202.95	3.771	
20,300.0	10,601.0	19,576.7	9,914.4	163.7	164.7	-26.75	-9,622.0	196.9	765.5	561.9	203.57	3.760	
20,400.0	10,601.0	19,672.8	9,911.7	165.3	166.3	-26.46	-9,718.1	194.8	766.7	562.0	204.72	3.745	
20,500.0	10,601.0	19,784.9	9,908.7	167.0	168.1	-26.09	-9,830.1	191.6	767.4	561.7	205.70	3.731	
20,506.7	10,601.0	19,792.6	9,908.6	167.1	168.2	-26.06	-9,837.8	191.3	767.4	561.7	205.76	3.730	
20,600.0	10,601.0	19,878.3	9,906.0	168.6	169.6	-25.72	-9,923.4	188.3	768.1	561.5	206.58	3.718	
20,700.0	10,601.0	20,004.4	9,907.2	170.2	171.6	-25.41	-10,049.4	184.1	765.0	557.3	207.71	3.683	
20,765.3	10,601.0	20,049.4	9,906.9	171.2	172.3	-25.26	-10,094.3	182.4	764.2	555.7	208.50	3.665	
20,800.0	10,601.0	20,078.5	9,906.0	171.8	172.8	-25.13	-10,123.4	181.1	764.4	555.6	208.77	3.661	
20,900.0	10,601.0	20,174.0	9,903.0	173.4	174.3	-24.75	-10,218.8	177.7	765.4	555.8	209.55	3.652	
21,000.0	10,601.0	20,272.0	9,899.6	175.0	175.9	-24.42	-10,316.7	175.2	767.1	556.6	210.51	3.644	
21,100.0	10,601.0	20,401.2	9,900.7	176.6	178.0	-24.62	-10,445.8	178.7	767.2	554.0	213.17	3.599	
21,200.0	10,601.0	20,498.2	9,906.1	178.2	179.6	-25.14	-10,542.4	184.7	764.4	547.7	216.73	3.527	
21,300.0	10,601.0	20,587.0	9,908.8	179.9	181.0	-25.50	-10,631.1	189.5	763.6	543.8	219.79	3.474	
21,343.9	10,601.0	20,628.8	9,909.3	180.6	181.7	-25.58	-10,672.9	190.8	763.6	542.7	220.89	3.457	
21,400.0	10,601.0	20,682.2	9,909.6	181.5	182.6	-25.65	-10,726.3	192.1	763.7	541.5	222.21	3.437	
21,500.0	10,601.0	20,779.5	9,910.0	183.1	184.1	-25.80	-10,823.5	195.0	764.3	539.6	224.66	3.402	
21,600.0	10,601.0	20,877.9	9,910.5	184.7	185.7	-26.01	-10,921.9	198.6	765.1	537.8	227.30	3.366	
21,700.0	10,601.0	20,982.7	9,911.3	186.3	187.4	-26.28	-11,026.5	203.0	765.8	535.6	230.19	3.327	
21,800.0	10,601.0	21,096.4	9,912.8	187.9	189.3	-26.44	-11,140.2	205.6	765.3	532.5	232.77	3.288	
21,900.0	10,601.0	21,188.5	9,913.7	189.6	190.8	-26.45	-11,232.2	206.1	764.3	529.5	234.80	3.255	
22,000.0	10,601.0	21,302.0	9,913.7	191.2	192.6	-26.24	-11,345.7	203.9	763.1	527.0	236.11	3.232	
22,100.0	10,601.0	21,385.6	9,913.8	192.8	194.0	-26.15	-11,429.3	203.1	762.2	524.4	237.77	3.206	
22,200.0	10,601.0	21,493.6	9,913.8	194.4	195.7	-26.05	-11,537.3	202.6	761.6	522.1	239.45	3.181	
22,300.0	10,601.0	21,589.8	9,914.4	196.1	197.3	-26.01	-11,633.5	202.5	760.6	519.3	241.31	3.152	
22,326.1	10,601.0	21,611.2	9,914.4	196.5	197.6	-26.00	-11,655.0	202.6	760.6	518.8	241.78	3.146	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #123H - Wellbore #1 - Wellbore #1

Offset Site Error: 0.0 usft

Survey Program: 143-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
22,400.0	10,601.0	21,672.3	9,913.5	197.7	198.6	-25.93	-11,716.0	202.5	761.2	518.3	242.92	3.133	
22,500.0	10,601.0	21,769.2	9,911.1	199.3	200.2	-25.79	-11,812.9	202.4	763.1	518.7	244.40	3.122	
22,600.0	10,601.0	21,866.0	9,908.1	200.9	201.8	-25.62	-11,909.6	202.1	765.4	519.6	245.76	3.114	
22,700.0	10,601.0	21,964.8	9,904.3	202.5	203.4	-25.39	-12,008.3	201.3	768.2	521.3	246.92	3.111	
22,800.0	10,601.0	22,096.3	9,902.7	204.2	205.5	-25.18	-12,139.8	200.1	768.4	520.0	248.39	3.093	
22,900.0	10,601.0	22,199.1	9,904.3	205.8	207.2	-25.15	-12,242.6	199.6	766.4	516.2	250.23	3.063	
23,000.0	10,601.0	22,336.4	9,909.3	207.4	209.4	-25.31	-12,379.7	200.7	763.5	511.0	252.50	3.024	
23,083.3	10,601.0	22,384.0	9,913.2	208.6	210.2	-25.49	-12,427.2	202.1	758.9	504.0	254.87	2.977	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #203H - Wellbore #1 - Actual Survey

Offset Site Error: 0.0 usft

Survey Program: 147-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	-105.60	-30.7	-109.9	114.1				
100.0	100.0	96.9	96.9	0.1	0.1	-105.49	-30.5	-110.0	114.1	113.9	0.27	425.583	
200.0	200.0	196.9	196.9	0.5	0.4	-105.17	-29.9	-110.3	114.3	113.4	0.88	130.177	
300.0	300.0	296.9	296.9	0.8	0.8	-104.73	-29.1	-110.6	114.4	112.8	1.59	71.710	
400.0	400.0	397.0	396.9	1.2	1.1	-104.22	-28.1	-110.9	114.4	112.1	2.31	49.492	
500.0	500.0	497.0	496.9	1.6	1.5	-103.75	-27.2	-111.2	114.5	111.4	3.03	37.794	
600.0	600.0	596.6	596.5	1.9	1.8	-103.33	-26.4	-111.6	114.7	110.9	3.74	30.639	
700.0	700.0	696.1	696.1	2.3	2.2	-102.98	-25.9	-112.3	115.3	110.8	4.46	25.870	
800.0	800.0	795.6	795.5	2.6	2.5	-102.67	-25.5	-113.5	116.3	111.1	5.17	22.511	
900.0	900.0	895.1	895.0	3.0	2.9	-102.38	-25.3	-115.0	117.8	111.9	5.88	20.041	
1,000.0	1,000.0	994.8	994.8	3.4	3.2	-102.12	-25.1	-116.9	119.6	113.0	6.59	18.148	
1,100.0	1,100.0	1,094.3	1,094.2	3.7	3.6	-101.86	-25.0	-118.9	121.6	114.3	7.30	16.656	
1,200.0	1,200.0	1,193.5	1,193.4	4.1	3.9	-101.47	-24.7	-121.6	124.2	116.2	8.01	15.504	
1,300.0	1,300.0	1,292.9	1,292.7	4.4	4.3	-100.94	-24.2	-125.0	127.4	118.7	8.72	14.606	
1,400.0	1,400.0	1,392.6	1,392.3	4.8	4.7	-100.59	-24.0	-128.5	130.8	121.4	9.43	13.870	
1,500.0	1,500.0	1,492.4	1,492.1	5.1	5.0	-100.43	-24.3	-132.2	134.5	124.3	10.15	13.254	
1,600.0	1,600.0	1,592.3	1,591.9	5.5	5.4	-100.42	-25.0	-135.8	138.1	127.3	10.86	12.720	
1,700.0	1,700.0	1,694.4	1,694.0	5.9	5.7	-100.61	-26.0	-138.7	141.2	129.6	11.58	12.195	
1,800.0	1,800.0	1,796.9	1,796.5	6.2	6.1	-101.09	-27.4	-139.8	142.4	130.1	12.29	11.588	
1,900.0	1,900.0	1,898.5	1,898.0	6.6	6.4	-101.65	-28.7	-139.3	142.3	129.3	12.99	10.954	
2,000.0	2,000.0	2,000.0	1,999.5	6.9	6.8	-102.14	-29.6	-137.8	141.0	127.3	13.68	10.304	
2,100.0	2,100.0	2,101.1	2,100.6	7.3	7.1	-102.67	-30.4	-135.4	138.8	124.4	14.38	9.654	
2,200.0	2,200.0	2,201.6	2,201.0	7.7	7.4	-103.30	-31.2	-132.1	135.8	120.8	15.07	9.014	
2,300.0	2,300.0	2,300.9	2,300.3	8.0	7.8	-104.03	-32.3	-129.1	133.1	117.4	15.77	8.443	
2,400.0	2,400.0	2,400.3	2,399.6	8.4	8.1	-104.86	-33.5	-126.5	130.9	114.4	16.46	7.948	
2,500.0	2,500.0	2,499.6	2,498.9	8.7	8.4	-105.74	-35.0	-124.3	129.1	112.0	17.16	7.524	
2,600.0	2,600.0	2,598.8	2,598.1	9.1	8.8	-106.68	-36.7	-122.6	128.0	110.1	17.87	7.163	
2,700.0	2,700.0	2,698.0	2,697.2	9.4	9.1	-107.61	-38.6	-121.5	127.5	108.9	18.57	6.865	
2,726.8	2,726.8	2,724.5	2,723.8	9.5	9.2	-107.87	-39.1	-121.3	127.5	108.7	18.76	6.795	
2,800.0	2,800.0	2,797.2	2,796.5	9.8	9.5	-108.18	-39.8	-121.2	127.6	108.3	19.27	6.621	ES
2,900.0	2,900.0	2,896.5	2,895.7	10.2	9.8	-107.26	-38.1	-122.5	128.3	108.3	19.98	6.423	
3,000.0	3,000.0	2,996.0	2,995.2	10.5	10.2	-105.40	-34.4	-124.9	129.6	108.9	20.68	6.265	
3,100.0	3,100.0	3,095.8	3,094.9	10.9	10.5	-115.37	-31.5	-127.3	131.5	110.1	21.39	6.147	
3,200.0	3,200.0	3,196.5	3,195.5	11.2	10.9	-114.82	-28.3	-129.5	134.0	111.9	22.10	6.061	
3,300.0	3,299.9	3,297.4	3,296.2	11.6	11.2	-114.24	-23.4	-131.5	136.6	113.7	22.82	5.985	
3,400.0	3,399.7	3,397.5	3,396.1	12.0	11.6	-113.92	-17.3	-133.3	139.5	116.0	23.53	5.929	
3,500.0	3,499.4	3,497.7	3,496.1	12.3	11.9	-113.80	-10.9	-135.1	142.7	118.4	24.24	5.886	
3,600.0	3,599.2	3,598.2	3,596.3	12.7	12.3	-113.25	-3.3	-136.9	145.5	120.6	24.96	5.832	
3,700.0	3,698.9	3,698.3	3,696.0	13.0	12.6	-112.11	5.9	-138.6	148.1	122.4	25.67	5.768	
3,800.0	3,798.7	3,797.1	3,794.2	13.4	13.0	-110.55	16.2	-140.9	151.1	124.7	26.39	5.726	
3,900.0	3,898.5	3,895.5	3,891.9	13.8	13.4	-108.66	27.3	-144.2	155.1	128.0	27.10	5.722	
4,000.0	3,998.2	3,993.6	3,989.2	14.1	13.7	-106.75	38.6	-148.5	160.2	132.4	27.80	5.761	
4,100.0	4,098.0	4,091.5	4,086.4	14.5	14.1	-104.84	50.2	-153.8	166.6	138.1	28.51	5.842	
4,200.0	4,197.7	4,189.1	4,182.9	14.8	14.4	-102.49	63.5	-160.2	174.2	145.0	29.21	5.964	
4,300.0	4,297.5	4,287.4	4,279.7	15.2	14.8	-99.75	78.6	-167.7	183.2	153.3	29.91	6.124	
4,400.0	4,397.2	4,386.8	4,377.5	15.6	15.2	-97.24	94.0	-175.3	192.6	162.0	30.63	6.288	
4,500.0	4,497.0	4,485.6	4,475.0	15.9	15.6	-95.13	108.7	-183.0	202.4	171.0	31.34	6.456	
4,600.0	4,596.8	4,584.2	4,572.3	16.3	16.0	-93.74	121.6	-191.2	212.7	180.6	32.06	6.634	
4,700.0	4,696.5	4,683.3	4,670.4	16.7	16.4	-92.90	132.9	-199.9	223.4	190.6	32.78	6.814	
4,800.0	4,796.3	4,782.6	4,768.7	17.0	16.7	-92.29	143.6	-208.8	234.1	200.6	33.51	6.986	
4,900.0	4,896.0	4,884.2	4,869.5	17.4	17.1	-91.89	153.8	-217.6	244.6	210.3	34.28	7.135	
5,000.0	4,995.8	4,986.8	4,971.3	17.8	17.5	-91.73	163.1	-225.5	253.8	218.8	35.05	7.242	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #203H - Wellbore #1 - Actual Survey

Offset Site Error: 0.0 usft

Survey Program: 147-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
5,100.0	5,095.5	5,087.1	5,071.0	18.1	17.9	-91.72	171.4	-232.6	262.4	226.6	35.79	7.330	
5,200.0	5,195.3	5,187.2	5,170.5	18.5	18.3	-91.76	179.4	-239.5	270.7	234.2	36.53	7.410	
5,300.0	5,295.0	5,286.8	5,269.6	18.9	18.7	-91.85	187.1	-246.4	279.0	241.7	37.26	7.487	
5,400.0	5,394.8	5,386.4	5,368.7	19.2	19.0	-92.00	194.4	-253.3	287.3	249.3	38.00	7.560	
5,500.0	5,494.6	5,485.8	5,467.6	19.6	19.4	-92.20	201.5	-260.3	295.6	256.9	38.73	7.633	
5,600.0	5,594.3	5,585.5	5,566.9	20.0	19.8	-92.44	208.4	-267.5	304.1	264.6	39.46	7.705	
5,700.0	5,694.1	5,686.8	5,667.7	20.3	20.2	-92.78	214.7	-274.5	312.2	272.0	40.22	7.762	
5,800.0	5,793.8	5,788.0	5,768.5	20.7	20.6	-93.25	220.2	-281.1	319.8	278.8	40.97	7.806	
5,900.0	5,893.6	5,889.2	5,869.4	21.1	20.9	-93.79	225.0	-287.4	326.9	285.2	41.71	7.838	
6,000.0	5,993.3	5,990.5	5,970.4	21.4	21.3	-94.40	229.3	-293.2	333.7	291.2	42.46	7.859	
6,100.0	6,093.1	6,092.0	6,071.7	21.8	21.7	-95.02	233.3	-298.6	340.0	296.8	43.21	7.868	
6,200.0	6,192.9	6,197.1	6,176.6	22.2	22.1	-95.63	237.5	-303.3	345.4	301.5	43.98	7.855	
6,300.0	6,292.6	6,304.6	6,284.0	22.5	22.5	-96.00	243.0	-305.7	348.9	304.1	44.75	7.796	
6,400.0	6,392.4	6,412.5	6,391.8	22.9	22.8	-96.38	248.2	-305.8	350.1	304.6	45.49	7.696	
6,500.0	6,492.1	6,520.4	6,499.5	23.3	23.2	-97.22	250.4	-303.6	349.1	302.9	46.21	7.554	
6,600.0	6,591.9	6,618.2	6,597.3	23.6	23.5	-98.17	251.2	-301.0	347.5	300.5	46.93	7.404	
6,700.0	6,691.6	6,717.1	6,696.2	24.0	23.9	-99.19	251.7	-298.7	346.2	298.6	47.64	7.268	
6,800.0	6,791.4	6,816.6	6,795.7	24.4	24.2	-100.28	251.9	-296.6	345.2	296.9	48.35	7.140	
6,900.0	6,891.1	6,916.0	6,895.1	24.7	24.5	-101.44	251.8	-294.5	344.5	295.4	49.06	7.021	
7,000.0	6,990.9	7,015.1	6,994.2	25.1	24.8	-102.65	251.3	-292.6	344.0	294.2	49.77	6.911	
7,020.0	7,010.8	7,034.9	7,013.9	25.2	24.9	-102.89	251.2	-292.2	343.9	294.0	49.91	6.891	
7,100.0	7,090.7	7,113.6	7,092.6	25.5	25.2	-103.76	250.6	-290.9	343.7	293.2	50.48	6.809	
7,200.0	7,190.6	7,211.4	7,190.4	25.8	25.5	-104.41	250.0	-289.8	343.5	292.3	51.17	6.712	
7,286.6	7,277.3	7,296.6	7,275.6	26.1	25.8	-93.47	249.8	-289.3	343.2	291.5	51.77	6.630	
7,300.0	7,290.6	7,309.8	7,288.9	26.2	25.8	-93.47	249.8	-289.3	343.2	291.3	51.86	6.617	
7,400.0	7,390.6	7,409.0	7,388.1	26.5	26.2	-93.52	249.5	-289.0	343.0	290.4	52.55	6.526	
7,500.0	7,490.6	7,508.9	7,487.9	26.9	26.5	-93.58	249.1	-288.9	342.9	289.7	53.24	6.441	
7,600.0	7,590.6	7,609.2	7,588.2	27.3	26.8	-93.69	248.5	-288.8	342.8	288.8	53.93	6.356	
7,684.7	7,675.4	7,693.4	7,672.4	27.6	27.1	-93.78	248.0	-288.6	342.6	288.1	54.51	6.285	
7,700.0	7,690.6	7,708.4	7,687.4	27.6	27.2	-93.79	247.9	-288.6	342.7	288.0	54.62	6.273	
7,800.0	7,790.6	7,807.1	7,786.1	28.0	27.5	-93.73	248.3	-288.9	342.9	287.6	55.31	6.199	
7,900.0	7,890.6	7,906.6	7,885.7	28.3	27.8	-93.56	249.3	-289.5	343.4	287.4	56.01	6.131	
8,000.0	7,990.6	8,006.4	7,985.5	28.7	28.2	-93.40	250.2	-290.2	344.1	287.3	56.72	6.066	
8,100.0	8,090.6	8,106.5	8,085.5	29.0	28.5	-93.28	250.8	-290.8	344.7	287.3	57.42	6.003	
8,200.0	8,190.6	8,206.5	8,185.5	29.4	28.9	-93.21	251.3	-291.5	345.3	287.2	58.13	5.941	
8,300.0	8,290.6	8,306.7	8,285.7	29.7	29.2	-93.12	251.8	-292.1	345.9	287.1	58.83	5.880	
8,400.0	8,390.6	8,406.9	8,385.8	30.1	29.6	-92.96	252.7	-292.7	346.4	286.9	59.54	5.819	
8,500.0	8,490.6	8,504.2	8,483.2	30.4	29.9	-92.86	253.3	-293.6	347.4	287.2	60.23	5.768	
8,600.0	8,590.6	8,602.3	8,581.2	30.8	30.3	-92.86	253.1	-295.2	349.0	288.1	60.92	5.729	
8,700.0	8,690.6	8,703.6	8,682.6	31.2	30.6	-92.96	252.5	-296.9	350.6	289.0	61.63	5.690	
8,800.0	8,790.6	8,804.6	8,783.5	31.5	31.0	-93.12	251.4	-298.1	351.9	289.6	62.33	5.646	
8,900.0	8,890.6	8,904.3	8,883.2	31.9	31.3	-93.26	250.5	-299.2	353.1	290.1	63.03	5.603	
9,000.0	8,990.6	9,004.8	8,983.7	32.2	31.6	-93.35	249.9	-300.4	354.4	290.6	63.73	5.561	
9,100.0	9,090.6	9,106.6	9,085.6	32.6	32.0	-93.41	249.5	-301.3	355.2	290.8	64.44	5.513	
9,200.0	9,190.6	9,207.3	9,186.3	32.9	32.3	-93.42	249.4	-301.7	355.6	290.5	65.14	5.459	
9,300.0	9,290.6	9,306.9	9,285.8	33.3	32.7	-93.32	250.0	-302.2	356.1	290.2	65.84	5.408	
9,400.0	9,390.6	9,405.3	9,384.2	33.6	33.0	-93.16	250.9	-302.9	356.7	290.2	66.54	5.361	
9,500.0	9,490.6	9,504.9	9,483.8	34.0	33.4	-93.06	251.5	-304.1	357.9	290.6	67.25	5.322	
9,600.0	9,590.6	9,605.6	9,584.5	34.3	33.7	-92.67	253.9	-305.2	358.8	290.9	67.96	5.280	
9,700.0	9,690.6	9,705.5	9,684.3	34.7	34.1	-92.09	257.5	-306.2	359.7	291.0	68.67	5.238	
9,800.0	9,790.6	9,805.2	9,784.0	35.1	34.5	-91.62	260.4	-307.2	360.7	291.3	69.38	5.199	
9,900.0	9,890.6	9,910.1	9,888.8	35.4	34.8	-91.17	263.2	-307.8	361.1	291.0	70.10	5.152	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #203H - Wellbore #1 - Actual Survey

Offset Site Error: 0.0 usft

Survey Program: 147-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	9,990.6	10,015.8	9,994.5	35.8	35.2	-90.57	267.0	-306.7	360.0	289.2	70.81	5.084	
10,037.4	10,028.0	10,054.2	10,032.8	35.9	35.3	-90.33	268.5	-305.9	359.3	288.2	71.07	5.055	
10,050.0	10,040.6	10,067.2	10,045.8	35.9	35.4	73.70	269.0	-305.6	359.0	287.8	71.16	5.044	
10,100.0	10,090.5	10,118.5	10,097.0	36.1	35.6	74.73	270.9	-304.3	356.8	285.3	71.48	4.992	
10,150.0	10,139.9	10,169.1	10,147.6	36.2	35.7	76.54	272.6	-302.9	353.5	281.7	71.79	4.924	
10,200.0	10,188.5	10,218.7	10,197.1	36.4	35.9	79.11	274.3	-301.2	349.3	277.2	72.08	4.846	
10,250.0	10,235.8	10,261.9	10,240.3	36.5	36.1	82.03	275.6	-300.0	345.2	272.8	72.36	4.770	
10,300.0	10,281.5	10,305.0	10,283.4	36.6	36.2	85.47	276.9	-299.0	341.8	269.2	72.63	4.707	
10,350.0	10,325.4	10,346.3	10,324.7	36.7	36.4	89.18	278.1	-298.3	340.0	267.1	72.87	4.666	
10,366.9	10,339.7	10,359.8	10,338.1	36.8	36.4	90.46	278.4	-298.1	339.8	266.9	72.94	4.659	
10,400.0	10,366.9	10,385.5	10,363.8	36.9	36.5	92.96	279.1	-297.8	340.4	267.3	73.09	4.658	
10,450.0	10,405.9	10,423.3	10,401.6	37.0	36.6	96.69	280.1	-297.5	344.0	270.7	73.29	4.693	
10,500.0	10,442.0	10,458.5	10,436.8	37.1	36.7	100.06	280.8	-297.3	351.3	277.8	73.49	4.780	
10,550.0	10,474.9	10,490.7	10,469.0	37.2	36.9	102.87	281.5	-297.2	363.0	289.3	73.67	4.927	
10,600.0	10,504.5	10,519.7	10,498.0	37.3	37.0	104.94	281.9	-297.1	379.3	305.5	73.84	5.137	
10,650.0	10,530.4	10,545.2	10,523.5	37.4	37.1	106.13	282.3	-297.1	400.4	326.4	74.00	5.411	
10,700.0	10,552.5	10,567.1	10,545.4	37.5	37.1	106.31	282.5	-297.2	426.0	351.9	74.13	5.747	
10,750.0	10,570.6	10,585.0	10,563.3	37.6	37.2	105.36	282.7	-297.2	455.8	381.5	74.25	6.139	
10,800.0	10,584.6	10,598.1	10,576.3	37.7	37.2	102.98	282.9	-297.2	489.2	414.8	74.34	6.580	
10,850.0	10,594.3	10,607.2	10,585.5	37.8	37.3	99.20	283.0	-297.3	525.6	451.2	74.41	7.064	
10,900.0	10,599.7	10,612.1	10,590.4	37.9	37.3	93.87	283.0	-297.3	564.5	490.0	74.46	7.581	
10,937.4	10,601.0	10,613.0	10,591.3	38.0	37.3	88.87	283.0	-297.3	594.7	520.2	74.48	7.985	
11,000.0	10,601.0	10,612.4	10,590.7	38.2	37.3	88.74	283.0	-297.3	647.4	572.9	74.50	8.690	
11,100.0	10,601.0	11,814.2	11,289.6	38.5	40.3	176.74	-437.1	-186.6	692.8	660.2	32.68	21.202	
11,151.8	10,601.0	11,860.0	11,290.0	38.7	40.5	177.90	-482.7	-182.2	692.5	659.7	32.78	21.124	
11,200.0	10,601.0	11,909.4	11,290.6	38.9	40.7	179.03	-531.9	-178.1	692.7	659.7	33.00	20.993	
11,300.0	10,601.0	12,033.8	11,287.7	39.4	41.2	-178.60	-656.1	-170.3	690.2	656.3	33.94	20.337	
11,400.0	10,601.0	12,126.9	11,285.0	39.9	41.7	-177.13	-749.0	-164.7	688.0	653.3	34.70	19.825	
11,500.0	10,601.0	12,227.1	11,282.6	40.4	42.3	-176.13	-849.1	-162.6	686.3	650.7	35.62	19.266	
11,600.0	10,601.0	12,324.2	11,280.1	41.0	42.9	-175.53	-946.2	-161.7	684.3	647.8	36.50	18.747	
11,699.9	10,601.0	12,410.8	11,278.9	41.7	43.5	-175.23	-1,032.7	-160.9	683.3	646.1	37.24	18.349	
11,700.0	10,601.0	12,410.9	11,278.9	41.7	43.5	-175.23	-1,032.8	-160.9	683.3	646.1	37.24	18.349	
11,766.0	10,601.0	12,465.2	11,279.2	42.2	43.9	-175.14	-1,087.2	-160.0	683.8	646.1	37.71	18.135	
11,800.0	10,601.0	12,496.9	11,279.7	42.4	44.1	-175.11	-1,118.8	-159.4	684.4	646.4	37.99	18.013	
11,900.0	10,601.0	12,591.1	11,281.8	43.2	44.8	-175.05	-1,213.0	-157.7	686.7	647.8	38.87	17.666	
12,000.0	10,601.0	12,685.0	11,284.6	44.0	45.6	-174.99	-1,306.8	-155.9	689.7	649.9	39.79	17.333	
12,100.0	10,601.0	12,793.0	11,288.7	44.8	46.5	-174.94	-1,414.8	-154.1	693.7	652.8	40.87	16.974	
12,200.0	10,601.0	12,908.7	11,289.5	45.7	47.6	-175.06	-1,530.4	-154.5	694.1	652.1	42.05	16.508	
12,300.0	10,601.0	12,995.7	11,290.3	46.6	48.4	-175.17	-1,617.4	-155.1	695.0	652.1	42.92	16.193	
12,400.0	10,601.0	13,116.5	11,292.1	47.6	49.6	-175.30	-1,738.2	-155.5	696.5	652.2	44.27	15.734	
12,500.0	10,601.0	13,212.9	11,291.5	48.6	50.5	-175.39	-1,834.6	-155.8	695.8	650.5	45.32	15.355	
12,600.0	10,601.0	13,327.2	11,289.0	49.7	51.7	-175.40	-1,948.8	-155.3	693.5	646.8	46.70	14.848	
12,674.8	10,601.0	13,384.7	11,288.2	50.5	52.4	-175.32	-2,006.3	-153.9	692.6	645.2	47.32	14.637	
12,700.0	10,601.0	13,406.0	11,288.2	50.8	52.6	-175.27	-2,027.6	-153.0	692.6	645.1	47.57	14.561	
12,800.0	10,601.0	13,502.5	11,288.9	51.9	53.7	-174.96	-2,124.0	-148.5	693.7	644.9	48.81	14.212	
12,900.0	10,601.0	13,622.9	11,288.4	53.0	55.0	-174.80	-2,244.4	-145.6	693.4	642.9	50.42	13.752	
13,000.0	10,601.0	13,729.9	11,285.4	54.2	56.3	-174.85	-2,351.3	-145.6	690.5	638.7	51.78	13.336	
13,100.0	10,601.0	13,817.4	11,283.5	55.4	57.3	-174.87	-2,438.8	-145.2	688.3	635.5	52.81	13.034	
13,200.0	10,601.0	13,925.3	11,282.5	56.6	58.6	-174.84	-2,546.7	-144.1	687.5	633.3	54.24	12.675	
13,300.0	10,601.0	14,025.8	11,280.0	57.8	59.9	-174.95	-2,647.2	-144.8	684.9	629.4	55.51	12.338	
13,400.0	10,601.0	14,114.5	11,278.7	59.1	61.0	-174.98	-2,735.8	-144.6	683.4	626.8	56.60	12.073	
13,500.0	10,601.0	14,214.2	11,278.2	60.3	62.2	-174.87	-2,835.5	-142.4	682.9	625.0	57.96	11.782	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #203H - Wellbore #1 - Actual Survey

Offset Site Error: 0.0 usft

Survey Program: 147-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
13,538.6	10,601.0	14,248.7	11,277.9	60.8	62.7	-174.78	-2,870.0	-141.2	682.8	624.3	58.44	11.684	
13,600.0	10,601.0	14,300.7	11,278.1	61.6	63.4	-174.61	-2,921.9	-138.7	683.2	624.0	59.16	11.549	
13,700.0	10,601.0	14,417.8	11,278.4	62.9	64.9	-174.31	-3,038.9	-134.1	683.9	622.9	60.93	11.224	
13,781.9	10,601.0	14,492.1	11,278.0	64.0	65.9	-174.28	-3,113.2	-133.1	683.5	621.6	61.92	11.038	
13,800.0	10,601.0	14,508.8	11,278.1	64.3	66.1	-174.27	-3,129.9	-132.9	683.5	621.4	62.15	10.998	
13,900.0	10,601.0	14,611.7	11,278.2	65.6	67.5	-174.22	-3,232.8	-131.4	683.7	620.1	63.60	10.751	
14,000.0	10,601.0	14,743.4	11,273.3	66.9	69.2	-174.20	-3,364.4	-130.6	679.6	614.0	65.60	10.360	
14,100.0	10,601.0	14,837.2	11,269.4	68.3	70.5	-174.17	-3,458.1	-129.9	675.4	608.5	66.89	10.098	
14,200.0	10,601.0	14,933.2	11,265.6	69.7	71.8	-174.08	-3,554.0	-128.4	671.6	603.4	68.25	9.841	
14,300.0	10,601.0	15,027.3	11,262.7	71.1	73.2	-173.92	-3,648.1	-126.0	668.7	599.1	69.62	9.606	
14,400.0	10,601.0	15,120.2	11,260.6	72.5	74.5	-173.73	-3,740.8	-123.3	666.6	595.6	70.99	9.391	
14,500.0	10,601.0	15,212.8	11,259.7	73.9	75.8	-173.52	-3,833.4	-120.2	665.9	593.6	72.38	9.201	
14,585.2	10,601.0	15,295.9	11,259.2	75.1	76.9	-173.32	-3,916.5	-117.2	665.8	592.1	73.67	9.037	
14,600.0	10,601.0	15,309.9	11,259.2	75.3	77.1	-173.28	-3,930.5	-116.7	665.8	591.9	73.89	9.010	
14,700.0	10,601.0	15,402.9	11,259.2	76.8	78.5	-172.98	-4,023.3	-112.3	666.3	591.0	75.37	8.841	
14,800.0	10,601.0	15,506.5	11,260.8	78.2	80.0	-172.97	-4,126.9	-111.2	667.8	590.9	76.90	8.685	
14,878.0	10,601.0	15,588.8	11,260.9	79.3	81.1	-173.15	-4,209.2	-112.6	667.7	589.7	78.02	8.557	
14,900.0	10,601.0	15,608.2	11,261.0	79.6	81.4	-173.19	-4,228.6	-112.9	667.7	589.5	78.27	8.531	
15,000.0	10,601.0	15,724.3	11,261.3	81.1	83.1	-173.42	-4,344.7	-114.6	667.9	587.9	79.93	8.356	
15,100.0	10,601.0	15,826.0	11,259.1	82.6	84.6	-173.72	-4,446.3	-117.6	665.3	584.1	81.27	8.187	
15,200.0	10,601.0	15,924.5	11,257.4	84.0	86.0	-174.00	-4,544.8	-120.2	663.2	580.6	82.56	8.033	
15,297.7	10,601.0	16,008.7	11,256.6	85.5	87.2	-174.14	-4,629.0	-121.1	662.1	578.5	83.66	7.914	
15,300.0	10,601.0	16,010.7	11,256.7	85.5	87.3	-174.14	-4,631.0	-121.1	662.1	578.4	83.69	7.912	
15,400.0	10,601.0	16,126.9	11,255.8	87.0	89.0	-174.25	-4,747.1	-121.5	661.4	576.0	85.43	7.742	
15,462.9	10,601.0	16,174.0	11,255.4	87.9	89.7	-174.28	-4,794.3	-121.5	660.7	574.7	86.04	7.679	
15,500.0	10,601.0	16,202.8	11,255.6	88.5	90.1	-174.27	-4,823.1	-121.2	661.0	574.5	86.43	7.648	
15,600.0	10,601.0	16,327.7	11,255.1	90.0	92.0	-174.29	-4,948.0	-120.5	660.7	572.3	88.40	7.474	
15,700.0	10,601.0	16,428.7	11,252.5	91.5	93.5	-174.42	-5,048.9	-121.3	657.9	568.1	89.84	7.323	
15,800.0	10,601.0	16,523.2	11,250.6	93.0	94.9	-174.49	-5,143.4	-121.5	655.8	564.6	91.18	7.192	
15,900.0	10,601.0	16,622.2	11,248.8	94.5	96.4	-174.49	-5,242.4	-120.9	653.9	561.2	92.66	7.057	
16,000.0	10,601.0	16,715.6	11,247.5	96.0	97.8	-174.43	-5,335.7	-119.6	652.6	558.6	94.06	6.939	
16,041.3	10,601.0	16,752.5	11,247.4	96.6	98.3	-174.40	-5,372.7	-119.0	652.5	557.9	94.60	6.897	
16,100.0	10,601.0	16,806.8	11,247.6	97.5	99.2	-174.37	-5,426.9	-118.2	652.7	557.3	95.41	6.841	
16,200.0	10,601.0	16,902.0	11,248.3	99.1	100.6	-174.32	-5,522.1	-116.8	653.6	556.8	96.84	6.749	
16,300.0	10,601.0	16,989.8	11,250.3	100.6	101.9	-174.23	-5,609.9	-114.8	656.0	557.9	98.14	6.685	
16,400.0	10,601.0	17,098.0	11,254.1	102.1	103.6	-174.18	-5,718.0	-112.9	659.6	559.8	99.86	6.605	
16,500.0	10,601.0	17,222.8	11,252.6	103.7	105.5	-174.39	-5,842.7	-114.5	657.8	556.1	101.76	6.465	
16,600.0	10,601.0	17,319.5	11,251.6	105.2	107.0	-174.52	-5,939.4	-115.3	656.7	553.6	103.13	6.367	
16,700.0	10,601.0	17,413.8	11,250.6	106.7	108.4	-174.55	-6,033.7	-114.9	655.6	551.1	104.52	6.273	
16,722.6	10,601.0	17,434.0	11,250.6	107.1	108.7	-174.53	-6,053.9	-114.6	655.6	550.8	104.82	6.254	
16,800.0	10,601.0	17,503.2	11,250.9	108.3	109.8	-174.44	-6,123.1	-112.9	656.1	550.2	105.88	6.196	
16,900.0	10,601.0	17,606.5	11,252.2	109.8	111.4	-174.23	-6,226.4	-109.5	657.6	550.0	107.61	6.111	
17,000.0	10,601.0	17,710.8	11,252.1	111.4	113.0	-174.01	-6,330.6	-106.1	657.7	548.4	109.37	6.014	
17,100.0	10,601.0	17,808.6	11,252.0	113.0	114.5	-173.73	-6,428.3	-102.1	658.0	546.9	111.05	5.925	
17,200.0	10,601.0	17,913.9	11,251.8	114.5	116.2	-173.43	-6,533.5	-97.7	658.2	545.2	112.91	5.829	
17,300.0	10,601.0	18,038.9	11,249.0	116.1	118.1	-173.58	-6,658.5	-98.8	655.6	540.8	114.81	5.711	
17,400.0	10,601.0	18,142.2	11,245.0	117.6	119.7	-173.80	-6,761.7	-100.8	651.6	535.3	116.24	5.605	
17,500.0	10,601.0	18,258.1	11,238.2	119.2	121.5	-174.03	-6,877.4	-103.3	645.4	527.5	117.85	5.476	
17,600.0	10,601.0	18,348.4	11,232.2	120.8	122.9	-174.28	-6,967.3	-106.0	638.4	519.3	119.06	5.362	
17,700.0	10,601.0	18,433.9	11,229.1	122.3	124.3	-174.58	-7,052.7	-108.9	634.3	514.1	120.15	5.279	
17,800.0	10,601.0	18,526.8	11,226.5	123.9	125.7	-174.97	-7,145.6	-112.7	631.1	509.8	121.29	5.203	
17,900.0	10,601.0	18,621.9	11,226.0	125.5	127.2	-175.48	-7,240.5	-117.6	630.0	507.6	122.42	5.146	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #203H - Wellbore #1 - Actual Survey

Offset Site Error: 0.0 usft

Survey Program: 147-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
18,000.0	10,601.0	18,726.4	11,223.6	127.1	128.8	-176.04	-7,344.9	-123.1	627.2	503.5	123.73	5.069	
18,069.8	10,601.0	18,782.8	11,223.1	128.2	129.7	-176.25	-7,401.2	-124.9	626.5	502.0	124.42	5.035	
18,100.0	10,601.0	18,806.4	11,223.3	128.6	130.0	-176.31	-7,424.8	-125.4	626.6	501.9	124.70	5.025	
18,200.0	10,601.0	18,886.7	11,225.6	130.2	131.3	-176.45	-7,505.0	-126.1	629.4	503.7	125.68	5.008	
18,300.0	10,601.0	18,979.9	11,230.3	131.8	132.8	-176.55	-7,598.2	-126.2	634.3	507.3	126.99	4.995	
18,400.0	10,601.0	19,089.7	11,235.1	133.4	134.5	-176.76	-7,707.9	-127.3	638.6	509.9	128.69	4.962	
18,500.0	10,601.0	19,185.3	11,238.9	135.0	136.0	-176.97	-7,803.4	-128.7	642.4	512.4	130.01	4.941	
18,600.0	10,601.0	19,279.4	11,243.9	136.6	137.5	-177.12	-7,897.3	-129.3	647.6	516.3	131.32	4.931	
18,700.0	10,601.0	19,401.6	11,248.6	138.1	139.4	-177.22	-8,019.4	-129.3	651.5	518.1	133.38	4.885	
18,800.0	10,601.0	19,539.1	11,247.2	139.7	141.6	-176.98	-8,156.8	-125.4	650.6	514.9	135.74	4.793	
18,900.0	10,601.0	19,641.2	11,242.8	141.3	143.2	-176.87	-8,258.8	-123.6	646.3	509.0	137.35	4.705	
19,000.0	10,601.0	19,722.0	11,240.7	142.9	144.5	-176.84	-8,339.6	-122.8	643.8	505.2	138.57	4.646	
19,030.6	10,601.0	19,744.5	11,240.7	143.4	144.9	-176.84	-8,362.1	-122.5	643.7	504.8	138.88	4.635	
19,100.0	10,601.0	19,802.3	11,241.1	144.5	145.8	-176.78	-8,419.9	-121.3	644.3	504.6	139.72	4.611	
19,200.0	10,601.0	19,888.7	11,243.5	146.1	147.2	-176.59	-8,506.2	-118.3	647.2	506.2	141.01	4.589	
19,300.0	10,601.0	19,989.8	11,247.4	147.7	148.8	-176.25	-8,607.1	-113.4	651.3	508.5	142.76	4.562	
19,400.0	10,601.0	20,129.9	11,246.9	149.3	151.1	-175.83	-8,747.0	-107.5	650.8	505.4	145.43	4.475	
19,500.0	10,601.0	20,221.5	11,245.5	150.9	152.5	-175.51	-8,838.5	-103.2	649.5	502.5	147.03	4.417	
19,600.0	10,601.0	20,317.5	11,243.5	152.5	154.1	-175.12	-8,934.4	-98.2	647.9	499.1	148.78	4.355	
19,610.2	10,601.0	20,324.6	11,243.4	152.7	154.2	-175.09	-8,941.4	-97.7	647.8	498.9	148.90	4.351	
19,700.0	10,601.0	20,389.8	11,244.5	154.1	155.2	-174.67	-9,006.4	-92.4	649.7	499.7	150.01	4.331	
19,800.0	10,601.0	20,524.2	11,245.0	155.7	157.4	-174.34	-9,140.6	-87.5	650.3	497.7	152.64	4.260	
19,900.0	10,601.0	20,629.7	11,243.0	157.3	159.1	-174.49	-9,246.2	-88.5	648.2	494.0	154.18	4.204	
20,000.0	10,601.0	20,750.8	11,239.0	158.9	161.0	-174.59	-9,367.1	-89.0	644.9	488.9	155.96	4.135	
20,100.0	10,601.0	20,854.2	11,233.0	160.5	162.6	-174.76	-9,470.3	-90.7	638.8	481.4	157.41	4.058	
20,200.0	10,601.0	20,929.8	11,229.9	162.1	163.9	-174.89	-9,545.9	-91.8	634.6	476.1	158.51	4.004	
20,300.0	10,601.0	21,041.7	11,227.3	163.7	165.6	-175.15	-9,657.7	-93.9	632.2	472.1	160.05	3.950	
20,400.0	10,601.0	21,119.2	11,225.5	165.3	166.9	-175.33	-9,735.2	-95.4	629.6	468.6	161.07	3.909	
20,416.2	10,601.0	21,131.5	11,225.5	165.6	167.1	-175.35	-9,747.5	-95.5	629.6	468.3	161.22	3.905	
20,500.0	10,601.0	21,210.1	11,226.0	167.0	168.3	-175.43	-9,826.1	-95.7	630.0	467.7	162.35	3.881	
20,600.0	10,601.0	21,314.7	11,226.7	168.6	170.0	-175.52	-9,930.7	-95.9	630.7	466.7	163.94	3.847	
20,700.0	10,601.0	21,427.0	11,225.9	170.2	171.8	-175.64	-10,042.9	-96.2	629.9	464.2	165.65	3.802	
20,800.0	10,601.0	21,528.3	11,224.1	171.8	173.4	-175.76	-10,144.2	-96.9	627.9	460.8	167.14	3.757	
20,900.0	10,601.0	21,625.7	11,222.4	173.4	175.0	-175.87	-10,241.6	-97.4	626.1	457.5	168.57	3.714	
21,000.0	10,601.0	21,723.8	11,220.9	175.0	176.6	-175.93	-10,339.7	-97.3	624.5	454.5	170.05	3.672	
21,100.0	10,601.0	21,818.5	11,220.4	176.6	178.1	-175.98	-10,434.4	-97.2	623.9	452.5	171.46	3.639	
21,200.0	10,601.0	21,934.0	11,217.4	178.2	180.0	-176.23	-10,549.8	-99.1	621.0	447.9	173.13	3.587	
21,300.0	10,601.0	22,019.6	11,216.2	179.9	181.3	-176.28	-10,635.5	-99.1	619.5	445.1	174.38	3.552	
21,400.0	10,601.0	22,118.9	11,215.3	181.5	182.9	-175.95	-10,734.6	-94.8	618.9	442.7	176.15	3.513	
21,474.2	10,601.0	22,193.0	11,214.7	182.7	184.1	-175.62	-10,808.6	-90.6	618.5	440.9	177.56	3.483	
21,500.0	10,601.0	22,207.9	11,214.8	183.1	184.4	-175.55	-10,823.5	-89.7	618.7	440.9	177.77	3.480	
21,600.0	10,601.0	22,280.0	11,217.4	184.7	185.6	-175.30	-10,895.4	-86.2	622.5	443.8	178.70	3.484	
21,700.0	10,601.0	22,361.6	11,223.5	186.3	186.9	-175.10	-10,976.7	-82.8	630.1	450.4	179.75	3.506	
21,800.0	10,601.0	22,511.5	11,231.0	187.9	189.3	-174.85	-11,126.3	-78.2	635.6	452.5	183.15	3.470	
21,900.0	10,601.0	22,611.2	11,231.7	189.6	190.9	-174.75	-11,226.0	-76.2	636.4	451.6	184.81	3.444	
22,000.0	10,601.0	22,710.4	11,232.4	191.2	192.5	-174.65	-11,325.2	-74.2	637.2	450.8	186.46	3.418	
22,100.0	10,601.0	22,803.6	11,233.7	192.8	194.0	-174.54	-11,418.3	-72.0	638.7	450.7	187.97	3.398	
22,200.0	10,601.0	22,897.7	11,235.8	194.4	195.6	-174.39	-11,512.4	-69.4	641.2	451.6	189.54	3.383	
22,300.0	10,601.0	22,991.4	11,238.8	196.1	197.1	-174.19	-11,606.0	-66.1	644.5	453.4	191.14	3.372	
22,400.0	10,601.0	23,084.3	11,242.7	197.7	198.6	-173.98	-11,698.8	-62.5	649.1	456.4	192.73	3.368	
22,500.0	10,601.0	23,202.6	11,246.4	199.3	200.5	-173.86	-11,817.0	-59.8	652.3	457.3	195.00	3.345	
22,600.0	10,601.0	23,299.1	11,248.5	200.9	202.1	-173.82	-11,913.4	-58.3	654.5	458.0	196.53	3.330	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #203H - Wellbore #1 - Actual Survey

Offset Site Error: 0.0 usft

Survey Program: 147-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
22,700.0	10,601.0	23,390.0	11,251.5	202.5	203.6	-173.77	-12,004.2	-56.7	657.9	460.0	197.90	3.325	
22,800.0	10,601.0	23,484.2	11,255.7	204.2	205.1	-173.71	-12,098.4	-54.7	662.5	463.1	199.39	3.323	SF
22,900.0	10,601.0	23,578.3	11,260.5	205.8	206.6	-173.65	-12,192.3	-52.7	667.7	466.9	200.83	3.325	
23,000.0	10,601.0	23,661.0	11,265.7	207.4	208.0	-173.60	-12,274.8	-50.9	674.2	472.4	201.83	3.341	
23,083.3	10,601.0	23,661.0	11,265.7	208.6	208.0	-173.60	-12,274.8	-50.9	686.2	487.5	198.75	3.453	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #217H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 140-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	-110.83	-30.4	-80.0	85.6				
100.0	100.0	97.4	97.4	0.1	0.1	-110.77	-30.3	-79.8	85.3	85.1	0.27	317.689	
200.0	200.0	197.5	197.5	0.5	0.4	-110.61	-29.8	-79.3	84.8	83.9	0.89	94.949	
300.0	300.0	297.3	297.3	0.8	0.8	-110.55	-29.6	-78.9	84.3	82.7	1.61	52.436	
400.0	400.0	397.1	397.1	1.2	1.1	-110.67	-29.7	-78.6	84.0	81.7	2.32	36.266	
452.1	452.1	449.1	449.1	1.4	1.3	-110.84	-29.9	-78.5	84.0	81.3	2.69	31.276	
500.0	500.0	496.9	496.9	1.6	1.5	-111.06	-30.2	-78.4	84.0	81.0	3.02	27.785	
600.0	600.0	596.7	596.7	1.9	1.8	-111.68	-31.1	-78.3	84.3	80.6	3.73	22.599	
700.0	700.0	696.5	696.4	2.3	2.2	-112.44	-32.4	-78.4	84.8	80.4	4.44	19.123	
800.0	800.0	796.2	796.2	2.6	2.5	-113.28	-33.8	-78.6	85.6	80.5	5.14	16.642	
900.0	900.0	896.1	896.0	3.0	2.9	-114.13	-35.4	-79.1	86.7	80.8	5.85	14.808	
1,000.0	1,000.0	996.2	996.1	3.4	3.2	-114.75	-36.7	-79.7	87.7	81.2	6.56	13.367	
1,100.0	1,100.0	1,096.2	1,096.1	3.7	3.6	-115.00	-37.5	-80.3	88.6	81.4	7.27	12.188	
1,200.0	1,200.0	1,195.3	1,195.3	4.1	3.9	-115.24	-38.4	-81.4	90.0	82.1	7.98	11.284	
1,300.0	1,300.0	1,295.8	1,295.7	4.4	4.3	-115.69	-39.9	-83.0	92.1	83.4	8.69	10.593	
1,400.0	1,400.0	1,397.9	1,397.7	4.8	4.6	-117.73	-43.0	-81.8	92.5	83.1	9.41	9.823	
1,500.0	1,500.0	1,500.0	1,499.7	5.1	5.0	-121.06	-46.7	-77.5	90.5	80.4	10.13	8.935	
1,600.0	1,600.0	1,600.3	1,599.8	5.5	5.3	-124.93	-50.0	-71.6	87.3	76.5	10.85	8.051	
1,700.0	1,700.0	1,700.5	1,699.8	5.9	5.7	-127.96	-51.7	-66.2	84.1	72.5	11.56	7.272	
1,800.0	1,800.0	1,800.7	1,799.9	6.2	6.1	-130.36	-52.2	-61.4	80.6	68.4	12.27	6.571	
1,900.0	1,900.0	1,900.9	1,900.0	6.6	6.4	-132.33	-51.8	-56.8	76.9	63.9	12.98	5.926	
2,000.0	2,000.0	2,000.5	1,999.4	6.9	6.8	-134.26	-51.2	-52.5	73.4	59.7	13.69	5.361	
2,100.0	2,100.0	2,100.3	2,099.2	7.3	7.1	-136.33	-50.8	-48.5	70.2	55.8	14.40	4.877	
2,200.0	2,200.0	2,200.3	2,199.1	7.7	7.5	-138.71	-50.4	-44.2	67.1	52.0	15.12	4.438	
2,300.0	2,300.0	2,300.0	2,298.7	8.0	7.8	-141.40	-50.0	-39.9	64.0	48.2	15.83	4.044	
2,400.0	2,400.0	2,399.2	2,397.9	8.4	8.2	-143.65	-50.0	-36.8	62.0	45.5	16.55	3.749	
2,500.0	2,500.0	2,498.8	2,497.5	8.7	8.5	-145.23	-50.2	-34.8	61.1	43.8	17.26	3.539	
2,600.0	2,600.0	2,598.7	2,597.3	9.1	8.9	-146.33	-50.3	-33.5	60.5	42.5	17.98	3.363	
2,700.0	2,700.0	2,698.7	2,697.3	9.4	9.2	-147.00	-50.3	-32.6	60.0	41.3	18.69	3.208	
2,800.0	2,800.0	2,798.7	2,797.4	9.8	9.6	-147.46	-50.1	-31.9	59.4	40.0	19.40	3.062	
2,900.0	2,900.0	2,898.8	2,897.4	10.2	9.9	-147.85	-49.7	-31.2	58.7	38.6	20.11	2.920	
3,000.0	3,000.0	2,998.9	2,997.5	10.5	10.3	-148.48	-49.3	-30.3	57.9	37.1	20.82	2.780	
3,058.0	3,058.0	3,057.0	3,055.6	10.7	10.5	-160.14	-49.1	-29.6	57.6	36.4	21.23	2.713	CC
3,100.0	3,100.0	3,098.9	3,097.6	10.9	10.7	-160.58	-48.9	-29.2	57.8	36.2	21.53	2.682	ES
3,200.0	3,200.0	3,199.0	3,197.6	11.2	11.0	-161.77	-48.2	-28.4	59.2	37.0	22.24	2.664	SF
3,300.0	3,299.9	3,298.5	3,297.1	11.6	11.4	-163.80	-48.0	-27.3	62.7	39.8	22.95	2.734	
3,400.0	3,399.7	3,397.8	3,396.4	12.0	11.7	-166.95	-49.0	-25.4	68.8	45.1	23.66	2.906	
3,500.0	3,499.4	3,497.7	3,496.2	12.3	12.1	-170.10	-50.4	-23.2	76.0	51.6	24.38	3.116	
3,600.0	3,599.2	3,597.4	3,595.9	12.7	12.4	-172.74	-51.5	-20.8	83.1	58.0	25.09	3.312	
3,700.0	3,698.9	3,696.4	3,694.8	13.0	12.8	-175.47	-53.2	-17.8	90.8	65.0	25.80	3.520	
3,800.0	3,798.7	3,796.4	3,794.8	13.4	13.1	-178.34	-55.8	-13.9	99.3	72.8	26.52	3.745	
3,900.0	3,898.5	3,899.6	3,897.9	13.8	13.5	179.61	-55.8	-10.3	105.6	78.4	27.24	3.878	
4,000.0	3,998.2	4,001.5	3,999.7	14.1	13.9	178.41	-52.7	-7.3	109.1	81.1	27.95	3.902	
4,100.0	4,098.0	4,101.7	4,099.8	14.5	14.2	177.52	-48.9	-4.7	111.9	83.2	28.65	3.904	
4,200.0	4,197.7	4,202.6	4,200.6	14.8	14.6	176.67	-44.6	-2.0	114.3	84.9	29.36	3.892	
4,300.0	4,297.5	4,304.0	4,301.7	15.2	14.9	175.29	-39.3	1.9	115.5	85.5	30.06	3.844	
4,400.0	4,397.2	4,404.3	4,401.7	15.6	15.3	173.23	-33.3	7.4	116.0	85.2	30.77	3.769	
4,500.0	4,497.0	4,504.1	4,501.0	15.9	15.6	170.23	-27.4	14.8	116.6	85.1	31.49	3.703	
4,600.0	4,596.8	4,605.9	4,602.3	16.3	16.0	166.52	-20.7	23.7	117.0	84.8	32.20	3.633	
4,700.0	4,696.5	4,708.2	4,703.7	16.7	16.4	162.62	-11.8	32.9	115.6	82.7	32.90	3.515	
4,800.0	4,796.3	4,807.6	4,802.2	17.0	16.7	158.70	-2.1	41.7	113.8	80.2	33.64	3.384	
4,900.0	4,896.0	4,907.0	4,900.9	17.4	17.1	154.86	7.2	50.3	112.8	78.4	34.38	3.281	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #217H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 140-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	4,995.8	5,006.8	4,999.9	17.8	17.5	150.99	16.5	58.8	112.4	77.3	35.13	3.200	
5,046.3	5,042.0	5,053.0	5,045.7	17.9	17.6	149.17	20.8	62.8	112.3	76.9	35.47	3.167	
5,100.0	5,095.5	5,106.7	5,099.0	18.1	17.8	147.03	25.9	67.5	112.4	76.5	35.87	3.134	
5,200.0	5,195.3	5,207.3	5,198.6	18.5	18.2	143.04	35.9	76.0	112.4	75.8	36.61	3.071	
5,300.0	5,295.0	5,307.6	5,298.1	18.9	18.6	139.07	46.5	84.1	112.3	75.0	37.35	3.007	
5,323.6	5,318.6	5,331.2	5,321.4	18.9	18.7	138.14	49.0	86.0	112.3	74.8	37.53	2.992	
5,400.0	5,394.8	5,407.5	5,397.1	19.2	19.0	135.18	57.2	92.0	112.4	74.3	38.10	2.950	
5,500.0	5,494.6	5,507.3	5,496.0	19.6	19.3	131.42	67.9	99.6	112.8	74.0	38.85	2.905	
5,600.0	5,594.3	5,606.9	5,594.8	20.0	19.7	128.03	78.2	106.8	113.8	74.2	39.60	2.874	
5,700.0	5,694.1	5,706.2	5,693.4	20.3	20.1	125.04	87.9	113.5	115.3	75.0	40.35	2.858	
5,800.0	5,793.8	5,805.0	5,791.5	20.7	20.4	122.19	97.0	120.7	117.9	76.8	41.09	2.869	
5,900.0	5,893.6	5,904.4	5,890.3	21.1	20.8	119.56	105.5	128.4	121.5	79.6	41.83	2.904	
6,000.0	5,993.3	6,004.4	5,989.7	21.4	21.2	117.45	113.4	135.5	125.2	82.6	42.57	2.940	
6,100.0	6,093.1	6,103.9	6,088.6	21.8	21.6	115.68	121.0	142.3	129.0	85.7	43.31	2.980	
6,200.0	6,192.9	6,202.9	6,187.1	22.2	22.0	113.69	128.8	149.9	133.6	89.5	44.04	3.033	
6,300.0	6,292.6	6,302.8	6,286.2	22.5	22.3	111.56	137.1	158.2	138.6	93.8	44.78	3.094	
6,400.0	6,392.4	6,402.8	6,385.6	22.9	22.7	109.47	145.6	166.5	143.6	98.0	45.53	3.154	
6,500.0	6,492.1	6,502.4	6,484.4	23.3	23.1	107.46	154.3	174.8	148.7	102.4	46.26	3.214	
6,600.0	6,591.9	6,601.8	6,583.1	23.6	23.5	105.53	163.1	183.3	154.1	107.1	47.00	3.280	
6,700.0	6,691.6	6,701.7	6,682.2	24.0	23.9	103.82	171.7	191.7	159.8	112.1	47.74	3.347	
6,800.0	6,791.4	6,801.5	6,781.4	24.4	24.3	102.42	179.8	199.9	165.5	117.0	48.48	3.414	
6,900.0	6,891.1	6,900.7	6,880.0	24.7	24.6	101.19	187.6	208.1	171.5	122.3	49.21	3.484	
7,000.0	6,990.9	6,999.9	6,978.5	25.1	25.0	100.06	195.2	216.5	177.8	127.9	49.94	3.560	
7,020.0	7,010.8	7,019.7	6,998.1	25.2	25.1	99.85	196.7	218.2	179.1	129.0	50.09	3.576	
7,100.0	7,090.7	7,098.9	7,076.8	25.5	25.4	98.89	202.5	225.2	184.4	133.8	50.66	3.640	
7,200.0	7,190.6	7,197.3	7,174.6	25.8	25.8	97.12	209.6	234.2	191.2	139.9	51.36	3.723	
7,286.6	7,277.3	7,281.6	7,258.1	26.1	26.1	106.00	216.2	242.8	197.8	145.9	51.94	3.808	
7,300.0	7,290.6	7,294.5	7,271.0	26.2	26.2	105.58	217.3	244.2	198.9	146.9	52.03	3.823	
7,400.0	7,390.6	7,392.4	7,367.8	26.5	26.6	102.38	226.2	255.6	208.1	155.4	52.69	3.949	
7,500.0	7,490.6	7,492.4	7,466.8	26.9	27.0	99.51	234.8	266.9	217.6	164.2	53.39	4.076	
7,600.0	7,590.6	7,592.6	7,566.1	27.3	27.3	97.12	242.6	277.7	227.2	173.1	54.11	4.199	
7,700.0	7,690.6	7,692.9	7,665.6	27.6	27.7	95.09	249.7	287.9	236.6	181.8	54.82	4.316	
7,800.0	7,790.6	7,797.0	7,769.0	28.0	28.1	93.40	256.1	297.5	245.4	189.8	55.59	4.414	
7,900.0	7,890.6	7,904.3	7,876.0	28.3	28.5	92.26	260.7	304.3	251.5	195.1	56.38	4.461	
8,000.0	7,990.6	8,008.7	7,980.4	28.7	28.9	91.63	263.3	308.2	255.1	198.0	57.11	4.467	
8,100.0	8,090.6	8,112.6	8,084.2	29.0	29.3	91.24	265.0	310.4	257.2	199.4	57.83	4.448	
8,200.0	8,190.6	8,216.0	8,187.6	29.4	29.6	91.01	266.1	311.1	257.9	199.4	58.52	4.407	
8,300.0	8,290.6	8,319.4	8,290.9	29.7	30.0	90.85	266.8	310.5	257.3	198.1	59.20	4.346	
8,400.0	8,390.6	8,421.0	8,392.6	30.1	30.3	90.84	266.9	308.9	255.7	195.9	59.87	4.271	
8,500.0	8,490.6	8,522.6	8,494.2	30.4	30.6	90.99	266.2	306.6	253.4	192.9	60.54	4.186	
8,600.0	8,590.6	8,623.6	8,595.1	30.8	31.0	91.20	265.3	303.8	250.7	189.5	61.22	4.095	
8,700.0	8,690.6	8,722.4	8,693.9	31.2	31.3	91.40	264.5	300.8	247.7	185.8	61.91	4.001	
8,800.0	8,790.6	8,818.4	8,789.8	31.5	31.6	91.56	263.9	299.2	246.0	183.4	62.62	3.928	
8,854.2	8,844.9	8,870.5	8,841.9	31.7	31.8	91.63	263.6	298.9	245.7	182.7	63.00	3.901	
8,900.0	8,890.6	8,916.2	8,887.6	31.9	31.9	91.69	263.3	298.9	245.8	182.4	63.32	3.881	
9,000.0	8,990.6	9,016.4	8,987.8	32.2	32.2	91.83	262.7	298.9	245.7	181.7	64.01	3.839	
9,100.0	9,090.6	9,116.5	9,087.9	32.6	32.6	91.97	262.1	298.7	245.6	180.9	64.70	3.796	
9,200.0	9,190.6	9,216.4	9,187.8	32.9	32.9	92.02	261.9	298.6	245.5	180.1	65.40	3.754	
9,253.2	9,243.9	9,269.6	9,241.0	33.1	33.1	92.01	262.0	298.6	245.5	179.7	65.77	3.733	
9,300.0	9,290.6	9,315.4	9,286.8	33.3	33.2	92.02	261.9	298.7	245.6	179.5	66.09	3.716	
9,400.0	9,390.6	9,413.9	9,385.3	33.6	33.6	92.16	261.3	299.3	246.2	179.4	66.79	3.686	
9,500.0	9,490.6	9,512.8	9,484.2	34.0	33.9	92.46	259.9	300.5	247.4	179.9	67.49	3.666	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #217H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 140-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
9,600.0	9,590.6	9,611.9	9,583.3	34.3	34.2	92.99	257.6	301.9	249.0	180.8	68.20	3.651	
9,700.0	9,690.6	9,712.8	9,684.1	34.7	34.6	93.63	254.7	303.4	250.6	181.7	68.90	3.637	
9,800.0	9,790.6	9,814.2	9,785.4	35.1	34.9	94.11	252.6	304.4	251.8	182.2	69.60	3.617	
9,900.0	9,890.6	9,916.4	9,887.6	35.4	35.3	94.46	251.0	304.7	252.2	181.9	70.30	3.588	
10,000.0	9,990.6	10,018.6	9,989.9	35.8	35.6	94.72	249.9	304.2	251.8	180.8	70.99	3.547	
10,037.4	10,028.0	10,056.5	10,027.8	35.9	35.7	94.80	249.5	303.8	251.4	180.2	71.24	3.529	
10,050.0	10,040.6	10,069.4	10,040.6	35.9	35.8	-101.31	249.4	303.6	251.3	180.0	71.33	3.523	
10,076.6	10,067.3	10,096.5	10,067.7	36.0	35.9	-101.53	249.2	303.3	251.2	179.7	71.49	3.513	
10,100.0	10,090.5	10,120.0	10,091.3	36.1	35.9	-101.94	249.0	302.9	251.3	179.6	71.64	3.507	
10,150.0	10,139.9	10,170.1	10,141.3	36.2	36.1	-103.40	248.4	302.1	252.1	180.2	71.92	3.506	
10,200.0	10,188.5	10,219.3	10,190.5	36.4	36.3	-105.61	247.7	301.1	254.2	182.0	72.19	3.522	
10,250.0	10,235.8	10,266.9	10,238.1	36.5	36.4	-108.45	247.3	300.1	258.1	185.7	72.43	3.564	
10,300.0	10,281.5	10,312.4	10,283.6	36.6	36.6	-111.66	247.3	299.2	264.5	191.9	72.66	3.640	
10,350.0	10,325.4	10,355.5	10,326.6	36.7	36.7	-114.90	247.3	298.5	274.2	201.3	72.88	3.762	
10,400.0	10,366.9	10,396.8	10,368.0	36.9	36.8	-118.04	247.3	297.8	287.7	214.6	73.08	3.937	
10,450.0	10,405.9	10,437.0	10,408.2	37.0	37.0	-120.95	247.3	297.2	305.3	232.0	73.26	4.167	
10,500.0	10,442.0	10,474.5	10,445.7	37.1	37.1	-123.35	247.0	296.5	327.0	253.5	73.44	4.452	
10,550.0	10,474.9	10,507.7	10,478.9	37.2	37.2	-124.94	246.8	295.9	352.9	279.2	73.61	4.794	
10,600.0	10,504.5	10,537.2	10,508.4	37.3	37.3	-125.70	246.8	295.2	382.9	309.1	73.77	5.190	
10,650.0	10,530.4	10,562.9	10,534.1	37.4	37.4	-125.49	246.8	294.7	416.7	342.8	73.91	5.637	
10,700.0	10,552.5	10,584.7	10,555.9	37.5	37.5	-124.13	246.8	294.2	453.8	379.8	74.04	6.130	
10,750.0	10,570.6	10,602.5	10,573.7	37.6	37.5	-121.35	246.9	293.8	493.9	419.7	74.14	6.661	
10,800.0	10,584.6	10,616.3	10,587.4	37.7	37.6	-116.78	247.0	293.5	536.3	462.0	74.22	7.225	
10,850.0	10,594.3	10,625.8	10,596.9	37.8	37.6	-109.94	247.0	293.3	580.5	506.3	74.28	7.816	
10,900.0	10,599.7	10,631.2	10,602.3	37.9	37.6	-100.35	247.0	293.2	626.2	551.9	74.31	8.426	
10,937.4	10,601.0	10,632.4	10,603.5	38.0	37.6	-91.34	247.0	293.2	660.9	586.5	74.33	8.891	
11,000.0	10,601.0	10,632.4	10,603.6	38.2	37.6	-91.28	247.0	293.2	719.4	645.1	74.35	9.677	
11,100.0	10,601.0	10,632.5	10,603.6	38.5	37.6	-91.17	247.0	293.2	813.3	739.0	74.38	10.936	
11,200.0	10,601.0	10,632.4	10,603.6	38.9	37.6	-91.06	247.0	293.2	907.5	833.1	74.40	12.197	
11,300.0	10,601.0	10,632.3	10,603.5	39.4	37.6	-90.94	247.0	293.2	1,001.7	927.3	74.44	13.457	
11,400.0	10,601.0	10,632.2	10,603.3	39.9	37.6	-90.83	247.0	293.2	1,095.9	1,021.4	74.47	14.716	
11,500.0	10,601.0	12,256.4	11,566.7	40.4	42.9	-148.95	-740.8	385.4	1,139.6	1,088.0	51.55	22.106	
11,600.0	10,601.0	12,395.3	11,574.2	41.0	43.7	-148.35	-879.5	390.6	1,149.7	1,097.0	52.69	21.820	
11,700.0	10,601.0	12,503.5	11,578.3	41.7	44.4	-148.07	-987.5	394.1	1,156.4	1,102.6	53.78	21.503	
11,766.0	10,601.0	12,648.3	11,578.2	42.2	45.4	-147.99	-1,132.3	395.2	1,156.6	1,101.7	54.92	21.062	
11,800.0	10,601.0	12,682.0	11,576.9	42.4	45.7	-147.97	-1,165.9	395.2	1,155.4	1,100.1	55.28	20.899	
11,900.0	10,601.0	12,747.9	11,575.8	43.2	46.2	-147.97	-1,231.8	395.0	1,153.5	1,097.4	56.11	20.556	
12,000.0	10,601.0	12,854.5	11,576.4	44.0	47.0	-148.06	-1,338.3	394.1	1,153.1	1,095.9	57.21	20.156	
12,100.0	10,601.0	12,946.0	11,576.2	44.8	47.8	-148.13	-1,429.9	393.1	1,151.9	1,093.6	58.28	19.766	
12,134.6	10,601.0	12,977.7	11,576.1	45.1	48.1	-148.13	-1,461.6	393.2	1,151.7	1,093.0	58.68	19.625	
12,200.0	10,601.0	13,020.5	11,576.4	45.7	48.5	-148.13	-1,504.4	393.8	1,152.3	1,093.0	59.34	19.418	
12,300.0	10,601.0	13,078.6	11,577.8	46.6	49.0	-148.09	-1,562.4	396.0	1,156.0	1,095.6	60.41	19.136	
12,400.0	10,601.0	13,155.3	11,581.3	47.6	49.7	-147.96	-1,638.8	402.2	1,163.5	1,101.7	61.74	18.845	
12,500.0	10,601.0	13,422.3	11,582.8	48.6	52.4	-148.11	-1,905.5	401.7	1,162.6	1,098.3	64.33	18.073	
12,600.0	10,601.0	13,450.8	11,582.6	49.7	52.7	-148.13	-1,934.0	401.3	1,159.5	1,094.4	65.09	17.814	
12,611.9	10,601.0	13,455.6	11,582.6	49.8	52.7	-148.13	-1,938.8	401.2	1,159.4	1,094.2	65.20	17.783	
12,700.0	10,601.0	13,499.0	11,583.9	50.8	53.2	-148.15	-1,982.2	401.8	1,161.5	1,095.4	66.11	17.569	
12,800.0	10,601.0	13,694.3	11,584.3	51.9	55.3	-148.24	-2,177.4	401.7	1,161.2	1,092.8	68.40	16.978	
12,900.0	10,601.0	13,788.1	11,581.3	53.0	56.3	-148.26	-2,271.2	400.0	1,157.0	1,087.1	69.87	16.559	
13,000.0	10,601.0	13,853.7	11,580.3	54.2	57.1	-148.30	-2,336.7	399.2	1,154.7	1,083.6	71.10	16.241	
13,100.0	10,601.0	13,978.7	11,580.4	55.4	58.5	-148.41	-2,461.8	397.4	1,153.8	1,080.9	72.83	15.841	
13,200.0	10,601.0	14,084.7	11,577.2	56.6	59.8	-148.58	-2,567.6	392.4	1,148.2	1,073.8	74.36	15.440	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #217H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 140-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
13,268.9	10,601.0	14,113.0	11,577.3	57.4	60.1	-148.63	-2,595.9	391.5	1,147.0	1,071.9	75.05	15.283	
13,300.0	10,601.0	14,144.0	11,578.4	57.8	60.5	-148.69	-2,626.8	391.1	1,147.6	1,072.1	75.50	15.199	
13,400.0	10,601.0	14,212.1	11,581.6	59.1	61.3	-148.81	-2,694.8	390.7	1,150.3	1,073.5	76.74	14.990	
13,500.0	10,601.0	14,360.0	11,583.6	60.3	63.2	-149.00	-2,842.7	388.7	1,150.0	1,071.2	78.72	14.607	
13,547.6	10,601.0	14,391.9	11,583.5	60.9	63.6	-149.01	-2,874.6	388.7	1,149.6	1,070.3	79.37	14.484	
13,600.0	10,601.0	14,427.5	11,583.7	61.6	64.0	-149.01	-2,910.1	389.2	1,150.0	1,069.9	80.11	14.356	
13,700.0	10,601.0	14,575.5	11,579.5	62.9	66.0	-148.79	-3,058.0	393.1	1,148.1	1,065.5	82.63	13.894	
13,800.0	10,601.0	14,686.4	11,574.5	64.3	67.4	-148.57	-3,168.8	396.0	1,145.2	1,060.5	84.78	13.508	
13,900.0	10,601.0	14,779.6	11,570.6	65.6	68.6	-148.47	-3,261.9	396.8	1,141.6	1,055.0	86.65	13.176	
14,000.0	10,601.0	14,856.9	11,568.0	66.9	69.7	-148.36	-3,339.1	398.3	1,139.5	1,051.1	88.36	12.896	
14,046.0	10,601.0	14,890.7	11,567.7	67.6	70.1	-148.35	-3,373.0	398.7	1,139.2	1,050.1	89.09	12.788	
14,100.0	10,601.0	14,931.4	11,567.9	68.3	70.7	-148.35	-3,413.7	399.2	1,139.5	1,049.6	89.93	12.671	
14,200.0	10,601.0	15,013.7	11,569.4	69.7	71.8	-148.34	-3,495.9	401.0	1,141.7	1,050.1	91.60	12.464	
14,300.0	10,601.0	15,131.8	11,570.9	71.1	73.4	-148.30	-3,613.9	403.9	1,143.6	1,049.9	93.74	12.200	
14,400.0	10,601.0	15,247.1	11,570.4	72.5	75.0	-148.21	-3,729.2	406.5	1,144.1	1,048.2	95.90	11.929	
14,500.0	10,601.0	15,386.4	11,566.5	73.9	77.0	-148.03	-3,868.4	409.5	1,142.5	1,044.0	98.48	11.601	
14,600.0	10,601.0	15,471.0	11,562.0	75.3	78.1	-147.88	-3,952.9	410.9	1,138.5	1,038.1	100.45	11.335	
14,667.1	10,601.0	15,512.2	11,560.4	76.3	78.7	-147.81	-3,994.0	411.8	1,137.2	1,035.7	101.55	11.199	
14,700.0	10,601.0	15,526.3	11,560.3	76.8	78.9	-147.79	-4,008.1	412.3	1,137.5	1,035.5	101.99	11.153	
14,800.0	10,601.0	15,582.5	11,561.8	78.2	79.7	-147.73	-4,064.3	415.1	1,141.6	1,038.1	103.47	11.034	
14,900.0	10,601.0	15,831.5	11,557.7	79.6	83.3	-147.70	-4,313.0	415.5	1,138.8	1,031.7	107.11	10.632	
15,000.0	10,601.0	15,944.3	11,549.5	81.1	84.9	-147.65	-4,425.4	412.2	1,130.6	1,021.4	109.24	10.350	
15,100.0	10,601.0	16,001.8	11,545.7	82.6	85.7	-147.61	-4,482.7	411.4	1,123.8	1,012.9	110.92	10.132	
15,200.0	10,601.0	16,061.0	11,543.4	84.0	86.6	-147.54	-4,541.9	412.0	1,120.7	1,008.1	112.60	9.953	
15,239.5	10,601.0	16,085.5	11,543.0	84.6	87.0	-147.51	-4,566.4	412.6	1,120.4	1,007.2	113.26	9.893	
15,300.0	10,601.0	16,134.0	11,543.0	85.5	87.7	-147.46	-4,614.9	414.2	1,121.1	1,006.7	114.40	9.800	
15,400.0	10,601.0	16,219.9	11,543.7	87.0	88.9	-147.35	-4,700.7	417.8	1,123.5	1,007.1	116.40	9.653	
15,500.0	10,601.0	16,300.5	11,544.6	88.5	90.1	-147.24	-4,781.2	421.7	1,126.6	1,008.3	118.34	9.520	
15,600.0	10,601.0	16,398.6	11,546.7	90.0	91.6	-147.10	-4,879.2	427.1	1,131.0	1,010.4	120.57	9.380	
15,700.0	10,601.0	16,526.7	11,548.9	91.5	93.5	-146.98	-5,007.1	432.3	1,134.2	1,011.0	123.19	9.207	
15,800.0	10,601.0	16,667.4	11,548.7	93.0	95.6	-146.99	-5,147.7	433.2	1,133.9	1,008.2	125.71	9.020	
15,900.0	10,601.0	16,825.8	11,542.6	94.5	97.9	-147.15	-5,305.8	426.8	1,127.2	999.2	127.99	8.807	
16,000.0	10,601.0	16,869.0	11,541.4	96.0	98.6	-147.19	-5,349.0	425.5	1,122.7	993.3	129.47	8.672	
16,046.2	10,601.0	16,893.0	11,541.4	96.7	98.9	-147.20	-5,373.0	425.4	1,122.4	992.2	130.15	8.624	
16,100.0	10,601.0	16,922.1	11,541.9	97.5	99.4	-147.21	-5,402.1	425.7	1,123.1	992.2	130.92	8.579	
16,200.0	10,601.0	16,988.0	11,544.2	99.1	100.4	-147.23	-5,467.9	427.2	1,126.8	994.4	132.43	8.509	
16,300.0	10,601.0	17,124.6	11,547.9	100.6	102.4	-147.23	-5,604.4	430.8	1,130.0	995.0	135.05	8.367	
16,400.0	10,601.0	17,346.4	11,544.2	102.1	105.8	-147.43	-5,825.9	425.5	1,127.1	989.2	137.88	8.175	
16,500.0	10,601.0	17,449.7	11,538.3	103.7	107.3	-147.64	-5,928.7	417.9	1,117.9	978.3	139.56	8.010	
16,600.0	10,601.0	17,511.0	11,534.9	105.2	108.3	-147.69	-5,989.8	414.9	1,110.2	969.0	141.27	7.859	
16,700.0	10,601.0	17,576.0	11,533.0	106.7	109.2	-147.70	-6,054.9	414.1	1,106.5	963.5	143.02	7.737	
16,800.0	10,601.0	17,678.8	11,529.8	108.3	110.8	-147.63	-6,157.5	414.5	1,103.7	958.4	145.25	7.598	
16,900.0	10,601.0	17,764.7	11,527.3	109.8	112.1	-147.55	-6,243.4	415.4	1,101.4	954.0	147.35	7.475	
16,957.0	10,601.0	17,805.3	11,526.7	110.7	112.8	-147.52	-6,284.0	416.2	1,101.0	952.5	148.42	7.418	
17,000.0	10,601.0	17,842.0	11,526.6	111.4	113.3	-147.49	-6,320.7	417.1	1,101.2	951.9	149.29	7.376	
17,100.0	10,601.0	17,923.7	11,527.2	113.0	114.6	-147.43	-6,402.3	419.5	1,102.9	951.7	151.26	7.292	
17,200.0	10,601.0	18,003.3	11,528.6	114.5	115.8	-147.37	-6,482.0	422.5	1,106.0	952.9	153.17	7.221	
17,300.0	10,601.0	18,148.0	11,530.1	116.1	118.1	-147.19	-6,626.4	428.7	1,109.1	952.7	156.31	7.095	
17,400.0	10,601.0	18,276.0	11,525.4	117.6	120.1	-146.90	-6,754.2	433.3	1,107.3	948.0	159.35	6.949	
17,500.0	10,601.0	18,358.4	11,522.2	119.2	121.4	-146.74	-6,836.6	435.6	1,105.3	943.6	161.64	6.838	
17,530.5	10,601.0	18,379.3	11,521.7	119.7	121.7	-146.71	-6,857.4	436.2	1,105.1	942.9	162.25	6.811	
17,600.0	10,601.0	18,434.5	11,521.4	120.8	122.6	-146.64	-6,912.6	438.1	1,105.7	942.0	163.70	6.755	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #217H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 140-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
17,700.0	10,601.0	18,533.4	11,521.1	122.3	124.1	-146.51	-7,011.5	441.6	1,107.0	940.9	166.10	6.664	
17,800.0	10,601.0	18,628.4	11,521.1	123.9	125.6	-146.38	-7,106.4	445.4	1,108.6	940.2	168.47	6.581	
17,900.0	10,601.0	18,725.7	11,521.4	125.5	127.1	-146.28	-7,203.6	448.9	1,110.5	939.7	170.83	6.501	
18,000.0	10,601.0	18,818.8	11,523.0	127.1	128.6	-146.24	-7,296.7	451.5	1,113.0	940.0	172.96	6.435	
18,100.0	10,601.0	18,927.5	11,525.2	128.6	130.3	-146.24	-7,405.3	453.9	1,115.5	940.2	175.25	6.365	
18,200.0	10,601.0	19,023.5	11,526.4	130.2	131.8	-146.23	-7,501.3	455.7	1,117.1	939.7	177.38	6.298	
18,300.0	10,601.0	19,109.0	11,529.5	131.8	133.1	-146.31	-7,586.7	456.6	1,120.2	941.1	179.12	6.254	
18,400.0	10,601.0	19,207.9	11,533.8	133.4	134.7	-146.43	-7,685.5	457.5	1,123.9	942.9	180.97	6.210	
18,500.0	10,601.0	19,315.5	11,538.4	135.0	136.4	-146.56	-7,793.0	458.2	1,127.4	944.5	182.92	6.163	
18,600.0	10,601.0	19,457.8	11,542.4	136.6	138.6	-146.79	-7,935.3	456.7	1,128.8	943.7	185.10	6.098	
18,608.4	10,601.0	19,457.6	11,542.5	136.7	138.6	-146.79	-7,935.1	456.8	1,128.8	943.7	185.18	6.096	
18,700.0	10,601.0	19,533.6	11,544.2	138.1	139.8	-146.91	-8,011.0	455.7	1,129.5	942.8	186.64	6.052	
18,800.0	10,601.0	19,665.7	11,545.5	139.7	141.9	-147.09	-8,143.1	453.3	1,128.7	939.9	188.72	5.981	
18,900.0	10,601.0	19,751.9	11,545.8	141.3	143.3	-147.19	-8,229.3	452.1	1,127.8	937.3	190.47	5.921	
18,916.8	10,601.0	19,766.2	11,545.9	141.6	143.5	-147.20	-8,243.6	452.0	1,127.8	937.0	190.76	5.912	
19,000.0	10,601.0	19,835.6	11,546.9	142.9	144.6	-147.26	-8,313.0	451.8	1,128.3	936.0	192.22	5.870	
19,100.0	10,601.0	19,916.0	11,548.4	144.5	145.9	-147.27	-8,393.3	453.2	1,130.3	936.3	194.04	5.825	
19,200.0	10,601.0	19,999.7	11,550.8	146.1	147.2	-147.24	-8,477.0	455.9	1,134.0	938.1	195.96	5.787	
19,300.0	10,601.0	20,079.6	11,554.1	147.7	148.5	-147.22	-8,556.8	459.2	1,139.3	941.5	197.77	5.761	
19,400.0	10,601.0	20,223.8	11,558.5	149.3	150.8	-147.16	-8,700.7	464.7	1,143.5	942.6	200.92	5.691	
19,500.0	10,601.0	20,320.9	11,560.3	150.9	152.3	-147.13	-8,797.8	467.5	1,146.1	943.0	203.13	5.642	
19,600.0	10,601.0	20,430.5	11,561.7	152.5	154.1	-147.10	-8,907.3	470.0	1,148.0	942.4	205.52	5.586	
19,700.0	10,601.0	20,516.2	11,562.8	154.1	155.4	-147.07	-8,993.0	472.1	1,150.0	942.5	207.53	5.541	
19,800.0	10,601.0	20,597.5	11,565.2	155.7	156.8	-147.03	-9,074.2	475.3	1,154.1	944.6	209.48	5.509	
19,900.0	10,601.0	20,800.6	11,565.3	157.3	160.0	-147.05	-9,277.1	476.5	1,153.8	941.0	212.86	5.421	
20,000.0	10,601.0	20,859.0	11,563.8	158.9	160.9	-147.07	-9,335.5	475.5	1,150.7	936.1	214.61	5.362	
20,053.0	10,601.0	20,903.1	11,563.2	159.8	161.6	-147.06	-9,379.6	475.8	1,150.1	934.4	215.70	5.332	
20,100.0	10,601.0	20,930.7	11,563.2	160.5	162.1	-147.04	-9,407.2	476.4	1,150.5	934.0	216.49	5.314	
20,200.0	10,601.0	21,066.6	11,564.5	162.1	164.2	-147.05	-9,543.1	478.2	1,151.9	932.8	219.10	5.258	
20,300.0	10,601.0	21,213.5	11,561.2	163.7	166.6	-147.16	-9,689.9	474.7	1,148.2	926.9	221.26	5.189	
20,400.0	10,601.0	21,307.3	11,557.1	165.3	168.1	-147.18	-9,783.5	472.2	1,142.6	919.3	223.32	5.117	
20,500.0	10,601.0	21,404.5	11,553.6	167.0	169.6	-147.21	-9,880.7	470.0	1,137.9	912.5	225.38	5.049	
20,600.0	10,601.0	21,483.4	11,550.8	168.6	170.9	-147.21	-9,959.5	468.9	1,133.8	906.4	227.42	4.986	
20,700.0	10,601.0	21,563.9	11,549.9	170.2	172.2	-147.24	-10,040.0	468.4	1,132.0	902.7	229.33	4.936	
20,800.0	10,601.0	21,654.5	11,549.6	171.8	173.6	-147.27	-10,130.6	468.2	1,131.2	899.9	231.28	4.891	
20,900.0	10,601.0	21,780.8	11,549.5	173.4	175.6	-147.32	-10,256.8	468.0	1,130.9	897.3	233.56	4.842	
21,000.0	10,601.0	21,926.2	11,544.1	175.0	177.9	-147.45	-10,402.1	462.8	1,125.0	889.5	235.51	4.777	
21,100.0	10,601.0	21,999.0	11,540.4	176.6	179.1	-147.41	-10,474.8	461.9	1,119.6	881.9	237.71	4.710	
21,200.0	10,601.0	22,098.5	11,535.3	178.2	180.7	-147.26	-10,574.1	463.0	1,115.4	875.0	240.38	4.640	
21,288.7	10,601.0	22,139.8	11,534.0	179.7	181.4	-147.20	-10,615.4	463.9	1,113.6	871.5	242.08	4.600	
21,300.0	10,601.0	22,145.3	11,534.0	179.9	181.5	-147.19	-10,620.9	464.1	1,113.6	871.4	242.28	4.597	
21,400.0	10,601.0	22,199.1	11,534.8	181.5	182.3	-147.14	-10,674.7	466.1	1,116.4	872.6	243.79	4.579	
21,500.0	10,601.0	22,289.7	11,537.8	183.1	183.8	-147.06	-10,765.0	470.7	1,121.5	875.5	246.03	4.558	
21,600.0	10,601.0	22,395.3	11,541.6	184.7	185.5	-146.98	-10,870.5	476.0	1,126.8	878.2	248.64	4.532	
21,700.0	10,601.0	22,509.3	11,544.9	186.3	187.4	-146.90	-10,984.3	480.9	1,131.1	879.7	251.39	4.500	
21,800.0	10,601.0	22,604.9	11,547.2	187.9	188.9	-146.85	-11,079.8	484.4	1,134.7	881.1	253.66	4.473	
21,900.0	10,601.0	22,730.0	11,550.6	189.6	190.9	-146.76	-11,204.8	489.7	1,139.1	882.5	256.62	4.439	
22,000.0	10,601.0	22,848.8	11,550.2	191.2	192.9	-146.67	-11,323.5	492.6	1,139.7	880.3	259.42	4.393	
22,100.0	10,601.0	22,933.8	11,549.7	192.8	194.2	-146.56	-11,408.5	495.6	1,140.6	878.8	261.79	4.357	
22,200.0	10,601.0	23,143.1	11,546.1	194.4	197.6	-146.47	-11,617.6	497.1	1,141.0	876.1	264.95	4.306	
22,300.0	10,601.0	23,240.9	11,540.1	196.1	199.2	-146.51	-11,715.2	493.0	1,133.1	866.1	267.02	4.244	
22,400.0	10,601.0	23,339.5	11,533.8	197.7	200.8	-146.52	-11,813.5	489.4	1,125.4	856.2	269.17	4.181	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #217H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 140-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
22,500.0	10,601.0	23,435.4	11,527.5	199.3	202.3	-146.51	-11,909.1	486.2	1,117.5	846.1	271.41	4.118	
22,600.0	10,601.0	23,504.0	11,523.8	200.9	203.4	-146.49	-11,977.6	484.8	1,111.5	837.9	273.69	4.061	
22,700.0	10,601.0	23,568.8	11,521.7	202.5	204.4	-146.45	-12,042.4	485.0	1,108.5	832.7	275.84	4.019	
22,800.0	10,601.0	23,675.7	11,519.7	204.2	206.2	-146.31	-12,149.2	487.6	1,108.0	829.4	278.60	3.977	
22,900.0	10,601.0	23,757.0	11,517.0	205.8	207.5	-146.25	-12,230.5	488.0	1,105.3	824.5	280.88	3.935	
22,903.9	10,601.0	23,757.0	11,517.0	205.9	207.5	-146.25	-12,230.5	488.0	1,105.3	824.4	280.92	3.935	
23,000.0	10,601.0	23,757.0	11,517.0	207.4	207.5	-146.25	-12,230.5	488.0	1,109.5	828.6	280.86	3.950	
23,083.3	10,601.0	23,757.0	11,517.0	208.6	207.5	-146.25	-12,230.5	488.0	1,119.8	840.5	279.30	4.009	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #223H - 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	2.0	-2.0	0.0	0.0	179.65	-30.0	0.2	30.0				
100.0	100.0	102.0	98.0	0.1	0.1	179.65	-30.0	0.2	30.0	29.7	0.26	113.911	
200.0	200.0	202.0	198.0	0.5	0.5	179.65	-30.0	0.2	30.0	29.0	0.98	30.612	
300.0	300.0	302.0	298.0	0.8	0.9	179.65	-30.0	0.2	30.0	28.3	1.70	17.682	
400.0	400.0	402.0	398.0	1.2	1.2	179.65	-30.0	0.2	30.0	27.6	2.41	12.431	
500.0	500.0	502.0	498.0	1.6	1.6	179.65	-30.0	0.2	30.0	26.9	3.13	9.585	
600.0	600.0	602.0	598.0	1.9	1.9	179.65	-30.0	0.2	30.0	26.2	3.85	7.799	
700.0	700.0	702.0	698.0	2.3	2.3	179.65	-30.0	0.2	30.0	25.4	4.57	6.574	
800.0	800.0	802.0	798.0	2.6	2.6	179.65	-30.0	0.2	30.0	24.7	5.28	5.682	
900.0	900.0	902.0	898.0	3.0	3.0	179.65	-30.0	0.2	30.0	24.0	6.00	5.003	
1,000.0	1,000.0	1,002.0	998.0	3.4	3.4	179.65	-30.0	0.2	30.0	23.3	6.72	4.469	
1,100.0	1,100.0	1,102.0	1,098.0	3.7	3.7	179.65	-30.0	0.2	30.0	22.6	7.43	4.038	
1,200.0	1,200.0	1,202.0	1,198.0	4.1	4.1	179.65	-30.0	0.2	30.0	21.9	8.15	3.683	
1,300.0	1,300.0	1,302.0	1,298.0	4.4	4.4	179.65	-30.0	0.2	30.0	21.1	8.87	3.385	
1,400.0	1,400.0	1,402.0	1,398.0	4.8	4.8	179.65	-30.0	0.2	30.0	20.4	9.58	3.132	
1,500.0	1,500.0	1,498.0	1,498.0	5.1	5.1	179.65	-30.0	0.2	30.0	19.7	10.29	2.918	
1,600.0	1,600.0	1,598.4	1,598.3	5.5	5.5	-179.22	-29.4	-0.4	29.4	18.4	11.00	2.675	
1,700.0	1,700.0	1,698.7	1,698.6	5.9	5.9	-175.38	-27.6	-2.2	27.7	16.0	11.71	2.365	
1,800.0	1,800.0	1,798.8	1,798.7	6.2	6.2	-167.82	-24.6	-5.3	25.1	12.7	12.43	2.022	
1,900.0	1,900.0	1,898.8	1,898.5	6.6	6.6	-154.66	-20.3	-9.6	22.4	9.3	13.14	1.707	
1,996.6	1,996.6	1,995.3	1,994.6	6.9	6.9	-135.13	-15.0	-14.9	21.1	7.3	13.84	1.528	CC
2,000.0	2,000.0	1,998.6	1,998.0	6.9	6.9	-134.34	-14.8	-15.1	21.1	7.3	13.86	1.525	ES, SF
2,100.0	2,100.0	2,098.1	2,097.0	7.3	7.3	-110.31	-8.1	-21.8	23.3	8.7	14.56	1.601	
2,200.0	2,200.0	2,197.2	2,195.4	7.7	7.6	-90.41	-0.2	-29.8	29.9	14.6	15.24	1.960	
2,300.0	2,300.0	2,306.2	2,293.3	8.0	8.1	-77.20	8.8	-38.8	40.1	24.1	15.94	2.515	
2,400.0	2,400.0	2,394.8	2,391.3	8.4	8.4	-69.11	18.5	-48.6	52.4	35.8	16.60	3.159	
2,500.0	2,500.0	2,506.1	2,489.4	8.7	8.8	-64.16	28.3	-58.4	65.4	48.1	17.34	3.771	
2,600.0	2,600.0	2,607.1	2,587.4	9.1	9.2	-60.85	38.0	-68.1	78.7	60.6	18.06	4.359	
2,700.0	2,700.0	2,708.1	2,685.5	9.4	9.6	-58.51	47.7	-77.9	92.2	73.4	18.77	4.910	
2,800.0	2,800.0	2,809.1	2,783.6	9.8	10.0	-56.76	57.4	-87.7	105.8	86.3	19.49	5.427	
2,900.0	2,900.0	2,890.0	2,881.6	10.2	10.3	-55.42	67.2	-97.4	119.5	99.3	20.14	5.931	
3,000.0	3,000.0	2,989.0	2,979.7	10.5	10.7	-54.35	76.9	-107.2	133.2	112.3	20.85	6.386	
3,100.0	3,100.0	3,088.1	3,077.8	10.9	11.1	-64.81	86.6	-117.0	146.6	125.0	21.57	6.795	
3,200.0	3,200.0	3,187.3	3,176.1	11.2	11.5	-64.80	96.4	-126.7	159.2	136.9	22.28	7.145	
3,300.0	3,299.9	3,286.5	3,274.4	11.6	11.9	-65.31	106.1	-136.5	171.2	148.1	23.00	7.441	
3,400.0	3,399.7	3,385.9	3,372.7	12.0	12.3	-66.25	115.9	-146.3	182.4	158.7	23.72	7.689	
3,500.0	3,499.4	3,485.2	3,471.1	12.3	12.7	-67.42	125.6	-156.1	193.4	168.9	24.44	7.910	
3,600.0	3,599.2	3,584.5	3,569.4	12.7	13.1	-68.46	135.4	-165.9	204.4	179.2	25.17	8.121	
3,700.0	3,698.9	3,683.8	3,667.8	13.0	13.5	-69.39	145.1	-175.7	215.5	189.6	25.89	8.322	
3,800.0	3,798.7	3,783.2	3,766.1	13.4	13.9	-70.23	154.9	-185.5	226.6	200.0	26.62	8.513	
3,900.0	3,898.5	3,882.5	3,864.5	13.8	14.3	-70.99	164.6	-195.3	237.8	210.5	27.35	8.696	
4,000.0	3,998.2	3,981.8	3,962.9	14.1	14.7	-71.68	174.4	-205.1	249.1	221.0	28.08	8.870	
4,100.0	4,098.0	4,081.1	4,061.2	14.5	15.1	-72.31	184.1	-214.9	260.3	231.5	28.81	9.036	
4,200.0	4,197.7	4,180.5	4,159.6	14.8	15.5	-72.89	193.9	-224.7	271.6	242.1	29.54	9.194	
4,300.0	4,297.5	4,279.8	4,257.9	15.2	15.9	-73.43	203.6	-234.5	282.9	252.6	30.27	9.345	
4,400.0	4,397.2	4,379.1	4,356.3	15.6	16.3	-73.92	213.4	-244.3	294.3	263.2	31.01	9.490	
4,500.0	4,497.0	4,478.4	4,454.6	15.9	16.7	-74.38	223.1	-254.1	305.6	273.9	31.74	9.628	
4,600.0	4,596.8	4,577.8	4,553.0	16.3	17.1	-74.80	232.9	-263.9	317.0	284.5	32.48	9.761	
4,700.0	4,696.5	4,677.3	4,651.6	16.7	17.5	-75.20	242.7	-273.7	328.4	295.2	33.21	9.886	
4,800.0	4,796.3	4,785.7	4,759.2	17.0	18.0	-75.69	252.2	-283.2	338.4	304.3	34.05	9.938	
4,900.0	4,896.0	4,894.6	4,867.5	17.4	18.4	-76.33	259.5	-290.7	345.7	310.9	34.86	9.917	
5,000.0	4,995.8	5,003.7	4,976.3	17.8	18.8	-77.13	264.7	-295.9	350.5	314.8	35.65	9.832	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #223H - 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
5,100.0	5,095.5	5,112.9	5,085.4	18.1	19.2	-78.09	267.7	-298.9	352.6	316.2	36.41	9.685	
5,200.0	5,195.3	5,222.0	5,194.5	18.5	19.5	-79.23	268.5	-299.7	352.2	315.1	37.14	9.484	
5,300.0	5,295.0	5,320.5	5,293.0	18.9	19.9	-80.33	268.6	-299.7	351.0	313.1	37.86	9.269	
5,400.0	5,394.8	5,420.2	5,392.8	19.2	20.2	-81.45	268.6	-299.7	349.9	311.3	38.59	9.066	
5,500.0	5,494.6	5,520.0	5,492.6	19.6	20.5	-82.58	268.6	-299.7	348.9	309.6	39.32	8.874	
5,600.0	5,594.3	5,619.7	5,592.3	20.0	20.9	-83.72	268.6	-299.7	348.1	308.0	40.05	8.691	
5,700.0	5,694.1	5,719.5	5,692.1	20.3	21.2	-84.86	268.6	-299.7	347.4	306.6	40.78	8.519	
5,800.0	5,793.8	5,819.3	5,791.8	20.7	21.6	-86.00	268.6	-299.7	346.8	305.3	41.51	8.356	
5,900.0	5,893.6	5,919.0	5,891.6	21.1	21.9	-87.15	268.6	-299.7	346.4	304.2	42.24	8.202	
6,000.0	5,993.3	6,018.8	5,991.3	21.4	22.2	-88.30	268.6	-299.7	346.1	303.2	42.97	8.056	
6,100.0	6,093.1	6,118.5	6,091.1	21.8	22.6	-89.46	268.6	-299.7	346.0	302.3	43.70	7.918	
6,147.2	6,140.2	6,165.6	6,138.2	22.0	22.7	-90.00	268.6	-299.7	346.0	301.9	44.04	7.855	
6,200.0	6,192.9	6,218.3	6,190.9	22.2	22.9	-90.61	268.6	-299.7	346.0	301.6	44.43	7.788	
6,300.0	6,292.6	6,318.0	6,290.6	22.5	23.2	-91.76	268.6	-299.7	346.1	301.0	45.16	7.665	
6,400.0	6,392.4	6,417.8	6,390.4	22.9	23.6	-92.91	268.6	-299.7	346.4	300.5	45.89	7.549	
6,500.0	6,492.1	6,517.5	6,490.1	23.3	23.9	-94.06	268.6	-299.7	346.8	300.2	46.62	7.439	
6,600.0	6,591.9	6,617.3	6,589.9	23.6	24.3	-95.20	268.6	-299.7	347.4	300.1	47.35	7.336	
6,700.0	6,691.6	6,717.1	6,689.6	24.0	24.6	-96.34	268.6	-299.7	348.1	300.0	48.08	7.239	
6,800.0	6,791.4	6,816.8	6,789.4	24.4	25.0	-97.48	268.6	-299.7	349.0	300.1	48.82	7.148	
6,900.0	6,891.1	6,916.6	6,889.1	24.7	25.3	-98.61	268.6	-299.7	349.9	300.4	49.55	7.063	
7,000.0	6,990.9	7,016.3	6,988.9	25.1	25.6	-99.73	268.6	-299.7	351.0	300.8	50.28	6.982	
7,020.0	7,010.8	7,036.2	7,008.8	25.2	25.7	-99.96	268.6	-299.7	351.3	300.9	50.42	6.967	
7,100.0	7,090.7	7,116.1	7,088.7	25.5	26.0	-100.73	268.6	-299.7	352.1	301.1	51.01	6.904	
7,200.0	7,190.6	7,216.1	7,188.6	25.8	26.3	-101.31	268.6	-299.7	352.8	301.1	51.72	6.821	
7,286.6	7,277.3	7,302.7	7,275.3	26.1	26.6	-90.33	268.6	-299.7	353.0	300.7	52.34	6.745	
7,300.0	7,290.6	7,316.1	7,288.6	26.2	26.7	-90.33	268.6	-299.7	353.0	300.6	52.43	6.733	
7,400.0	7,390.6	7,416.1	7,388.6	26.5	27.0	-90.33	268.6	-299.7	353.0	299.9	53.13	6.644	
7,500.0	7,490.6	7,516.1	7,488.6	26.9	27.4	-90.33	268.6	-299.7	353.0	299.2	53.84	6.557	
7,600.0	7,590.6	7,616.1	7,588.6	27.3	27.7	-90.33	268.6	-299.7	353.0	298.5	54.54	6.473	
7,700.0	7,690.6	7,716.1	7,688.6	27.6	28.1	-90.33	268.6	-299.7	353.0	297.8	55.24	6.390	
7,800.0	7,790.6	7,816.1	7,788.6	28.0	28.4	-90.33	268.6	-299.7	353.0	297.1	55.95	6.310	
7,900.0	7,890.6	7,916.1	7,888.6	28.3	28.8	-90.33	268.6	-299.7	353.0	296.4	56.65	6.231	
8,000.0	7,990.6	8,016.1	7,988.6	28.7	29.1	-90.33	268.6	-299.7	353.0	295.7	57.36	6.155	
8,100.0	8,090.6	8,116.1	8,088.6	29.0	29.5	-90.33	268.6	-299.7	353.0	294.9	58.06	6.080	
8,200.0	8,190.6	8,216.1	8,188.6	29.4	29.8	-90.33	268.6	-299.7	353.0	294.2	58.77	6.007	
8,300.0	8,290.6	8,316.1	8,288.6	29.7	30.2	-90.33	268.6	-299.7	353.0	293.5	59.48	5.935	
8,400.0	8,390.6	8,416.1	8,388.6	30.1	30.5	-90.33	268.6	-299.7	353.0	292.8	60.18	5.866	
8,500.0	8,490.6	8,516.1	8,488.6	30.4	30.8	-90.33	268.6	-299.7	353.0	292.1	60.89	5.798	
8,600.0	8,590.6	8,616.1	8,588.6	30.8	31.2	-90.33	268.6	-299.7	353.0	291.4	61.59	5.731	
8,700.0	8,690.6	8,716.1	8,688.6	31.2	31.5	-90.33	268.6	-299.7	353.0	290.7	62.30	5.666	
8,800.0	8,790.6	8,816.1	8,788.6	31.5	31.9	-90.33	268.6	-299.7	353.0	290.0	63.01	5.603	
8,900.0	8,890.6	8,916.1	8,888.6	31.9	32.2	-90.33	268.6	-299.7	353.0	289.3	63.72	5.540	
9,000.0	8,990.6	9,016.1	8,988.6	32.2	32.6	-90.33	268.6	-299.7	353.0	288.6	64.42	5.480	
9,100.0	9,090.6	9,116.1	9,088.6	32.6	32.9	-90.33	268.6	-299.7	353.0	287.9	65.13	5.420	
9,200.0	9,190.6	9,216.1	9,188.6	32.9	33.3	-90.33	268.6	-299.7	353.0	287.2	65.84	5.362	
9,300.0	9,290.6	9,316.1	9,288.6	33.3	33.6	-90.33	268.6	-299.7	353.0	286.5	66.55	5.305	
9,400.0	9,390.6	9,416.1	9,388.6	33.6	34.0	-90.33	268.6	-299.7	353.0	285.8	67.26	5.249	
9,500.0	9,490.6	9,516.1	9,488.6	34.0	34.3	-90.33	268.6	-299.7	353.0	285.0	67.96	5.194	
9,600.0	9,590.6	9,616.1	9,588.6	34.3	34.7	-90.33	268.6	-299.7	353.0	284.3	68.67	5.141	
9,700.0	9,690.6	9,716.1	9,688.6	34.7	35.1	-90.33	268.6	-299.7	353.0	283.6	69.38	5.088	
9,800.0	9,790.6	9,816.1	9,788.6	35.1	35.4	-90.33	268.6	-299.7	353.0	282.9	70.09	5.037	
9,900.0	9,890.6	9,916.1	9,888.6	35.4	35.8	-90.33	268.6	-299.7	353.0	282.2	70.80	4.986	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #223H - 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
10,000.0	9,990.6	10,016.1	9,988.6	35.8	36.1	-90.33	268.6	-299.7	353.0	281.5	71.51	4.937	
10,037.4	10,028.0	10,053.4	10,026.0	35.9	36.2	-90.33	268.6	-299.7	353.0	281.2	71.77	4.918	
10,050.0	10,040.6	10,066.1	10,038.6	35.9	36.3	73.60	268.6	-299.7	353.0	281.1	71.86	4.912	
10,100.0	10,090.5	10,115.9	10,088.5	36.1	36.5	74.20	268.6	-299.7	352.1	279.9	72.19	4.877	
10,150.0	10,139.9	10,165.3	10,137.9	36.2	36.6	75.58	268.6	-299.7	350.1	277.6	72.50	4.828	
10,200.0	10,188.5	10,213.9	10,186.5	36.4	36.8	77.70	268.6	-299.7	347.2	274.4	72.79	4.770	
10,250.0	10,235.8	10,261.2	10,233.8	36.5	37.0	80.50	268.6	-299.7	344.0	271.0	73.06	4.709	
10,300.0	10,281.5	10,307.0	10,279.5	36.6	37.1	83.85	268.6	-299.7	341.0	267.7	73.32	4.651	
10,350.0	10,325.4	10,350.8	10,323.4	36.7	37.3	87.60	268.6	-299.7	339.0	265.5	73.55	4.609	
10,380.7	10,351.2	10,376.6	10,349.2	36.8	37.4	90.00	268.6	-299.7	338.6	264.9	73.69	4.595	
10,400.0	10,366.9	10,407.7	10,364.9	36.9	37.5	91.52	268.6	-299.7	338.8	265.0	73.83	4.589	
10,450.0	10,405.9	10,431.3	10,403.9	37.0	37.6	95.38	268.6	-299.7	341.3	267.3	73.99	4.612	
10,500.0	10,442.0	10,467.4	10,440.0	37.1	37.7	98.94	268.6	-299.7	347.3	273.1	74.19	4.681	
10,550.0	10,474.9	10,500.4	10,472.9	37.2	37.8	101.96	268.6	-299.7	357.5	283.1	74.39	4.806	
10,600.0	10,504.5	10,529.9	10,502.5	37.3	37.9	104.26	268.6	-299.7	372.4	297.8	74.58	4.993	
10,650.0	10,530.4	10,555.8	10,528.4	37.4	38.0	105.68	268.6	-299.7	392.1	317.3	74.76	5.245	
10,700.0	10,552.5	10,577.9	10,550.5	37.5	38.1	106.08	268.6	-299.7	416.5	341.6	74.92	5.559	
10,750.0	10,570.6	10,604.0	10,568.6	37.6	38.2	105.34	268.6	-299.7	445.2	370.1	75.09	5.929	
10,800.0	10,584.6	10,610.0	10,582.6	37.7	38.2	103.30	268.6	-299.7	477.8	402.6	75.18	6.355	
10,850.0	10,594.3	10,619.7	10,592.3	37.8	38.2	99.83	268.6	-299.7	513.5	438.3	75.28	6.822	
10,900.0	10,599.7	10,625.2	10,597.7	37.9	38.2	94.79	268.6	-299.7	551.9	476.5	75.34	7.325	
10,937.4	10,601.0	10,626.4	10,599.0	38.0	38.3	90.00	268.6	-299.7	581.8	506.4	75.38	7.719	
11,000.0	10,601.0	10,626.4	10,599.0	38.2	38.3	90.00	268.6	-299.7	634.2	558.7	75.42	8.408	
11,100.0	10,601.0	10,626.4	10,599.0	38.5	38.3	90.00	268.6	-299.7	722.4	646.9	75.48	9.571	
11,200.0	10,601.0	10,626.4	10,599.0	38.9	38.3	90.00	268.6	-299.7	814.7	739.2	75.53	10.787	
11,300.0	10,601.0	10,626.4	10,599.0	39.4	38.3	90.00	268.6	-299.7	909.7	834.2	75.57	12.039	
11,400.0	10,601.0	10,626.4	10,599.0	39.9	38.3	90.00	268.6	-299.7	1,006.6	931.0	75.60	13.315	
11,500.0	10,601.0	10,626.4	10,599.0	40.4	38.3	90.00	268.6	-299.7	1,104.7	1,029.1	75.62	14.608	
11,600.0	10,601.0	10,626.4	10,599.0	41.0	38.3	90.00	268.6	-299.7	1,203.6	1,128.0	75.64	15.912	
11,700.0	10,601.0	10,626.4	10,599.0	41.7	38.3	90.00	268.6	-299.7	1,303.1	1,227.5	75.66	17.224	
11,766.0	10,601.0	10,626.4	10,599.0	42.2	38.3	90.00	268.6	-299.7	1,369.0	1,293.3	75.67	18.091	
11,800.0	10,601.0	10,626.4	10,599.0	42.4	38.3	90.00	268.6	-299.7	1,403.0	1,327.3	75.68	18.539	
11,900.0	10,601.0	10,626.4	10,599.0	43.2	38.3	90.00	268.6	-299.7	1,502.8	1,427.2	75.69	19.854	
12,000.0	10,601.0	10,626.4	10,599.0	44.0	38.3	90.00	268.6	-299.7	1,602.7	1,527.0	75.71	21.169	
12,100.0	10,601.0	10,626.4	10,599.0	44.8	38.3	90.00	268.6	-299.7	1,702.7	1,626.9	75.73	22.484	
12,200.0	10,601.0	10,626.4	10,599.0	45.7	38.3	90.01	268.6	-299.7	1,802.6	1,726.8	75.75	23.797	
12,300.0	10,601.0	10,626.4	10,599.0	46.6	38.3	90.01	268.6	-299.7	1,902.5	1,826.7	75.77	25.110	
12,400.0	10,601.0	14,288.0	12,502.0	47.6	53.0	-179.98	-1,732.0	-211.8	1,903.0	1,856.7	46.34	41.063	
12,500.0	10,601.0	14,388.0	12,502.0	48.6	53.9	-179.98	-1,832.0	-211.0	1,903.0	1,855.6	47.40	40.151	
12,600.0	10,601.0	14,488.0	12,502.0	49.7	54.9	-179.98	-1,932.0	-210.2	1,903.0	1,854.5	48.48	39.256	
12,700.0	10,601.0	14,588.0	12,502.0	50.8	55.8	-179.98	-2,031.9	-209.4	1,903.0	1,853.4	49.58	38.381	
12,800.0	10,601.0	14,688.0	12,502.0	51.9	56.9	-179.98	-2,131.9	-208.6	1,903.0	1,852.3	50.71	37.526	
12,900.0	10,601.0	14,788.0	12,502.0	53.0	57.9	-179.98	-2,231.9	-207.7	1,903.0	1,851.1	51.86	36.692	
13,000.0	10,601.0	14,888.0	12,502.0	54.2	59.0	-179.98	-2,331.9	-206.9	1,903.0	1,850.0	53.04	35.880	
13,100.0	10,601.0	14,988.0	12,502.0	55.4	60.1	-179.98	-2,431.9	-206.1	1,903.0	1,848.8	54.23	35.091	
13,200.0	10,601.0	15,088.0	12,502.0	56.6	61.2	-179.98	-2,531.9	-205.3	1,903.0	1,847.6	55.44	34.324	
13,300.0	10,601.0	15,188.0	12,502.0	57.8	62.4	-179.98	-2,631.9	-204.5	1,903.0	1,846.3	56.67	33.580	
13,400.0	10,601.0	15,288.0	12,502.0	59.1	63.5	-179.98	-2,731.9	-203.7	1,903.0	1,845.1	57.92	32.858	
13,500.0	10,601.0	15,388.0	12,502.0	60.3	64.7	-179.98	-2,831.9	-202.8	1,903.0	1,843.8	59.18	32.158	
13,600.0	10,601.0	15,488.0	12,502.0	61.6	66.0	-179.98	-2,931.9	-202.0	1,903.0	1,842.6	60.45	31.480	
13,700.0	10,601.0	15,588.0	12,502.0	62.9	67.2	-179.98	-3,031.9	-201.2	1,903.0	1,841.3	61.74	30.823	
13,800.0	10,601.0	15,688.0	12,502.0	64.3	68.4	-179.98	-3,131.9	-200.4	1,903.0	1,840.0	63.04	30.188	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #223H - 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
13,900.0	10,601.0	15,788.0	12,502.0	65.6	69.7	-179.98	-3,231.9	-199.6	1,903.0	1,838.6	64.35	29.572	
14,000.0	10,601.0	15,888.0	12,502.0	66.9	71.0	-179.98	-3,331.9	-198.8	1,903.0	1,837.3	65.67	28.976	
14,100.0	10,601.0	15,988.0	12,502.0	68.3	72.3	-179.98	-3,431.9	-197.9	1,903.0	1,836.0	67.01	28.399	
14,200.0	10,601.0	16,088.0	12,502.0	69.7	73.6	-179.98	-3,531.9	-197.1	1,903.0	1,834.6	68.35	27.841	
14,300.0	10,601.0	16,188.0	12,502.0	71.1	74.9	-179.98	-3,631.9	-196.3	1,903.0	1,833.3	69.71	27.301	
14,400.0	10,601.0	16,288.0	12,502.0	72.5	76.3	-179.98	-3,731.9	-195.5	1,903.0	1,831.9	71.07	26.777	
14,500.0	10,601.0	16,388.0	12,502.0	73.9	77.6	-179.98	-3,831.9	-194.7	1,903.0	1,830.6	72.44	26.271	
14,600.0	10,601.0	16,488.0	12,502.0	75.3	79.0	-179.98	-3,931.9	-193.9	1,903.0	1,829.2	73.82	25.781	
14,700.0	10,601.0	16,588.0	12,502.0	76.8	80.3	-179.98	-4,031.9	-193.0	1,903.0	1,827.8	75.20	25.306	
14,800.0	10,601.0	16,688.0	12,502.0	78.2	81.7	-179.98	-4,131.9	-192.2	1,903.0	1,826.4	76.59	24.846	
14,900.0	10,601.0	16,788.0	12,502.0	79.6	83.1	-179.98	-4,231.9	-191.4	1,903.0	1,825.0	77.99	24.400	
15,000.0	10,601.0	16,888.0	12,502.0	81.1	84.5	-179.98	-4,331.9	-190.6	1,903.0	1,823.6	79.40	23.968	
15,100.0	10,601.0	16,988.0	12,502.0	82.6	85.9	-179.98	-4,431.9	-189.8	1,903.0	1,822.2	80.81	23.550	
15,200.0	10,601.0	17,088.0	12,502.0	84.0	87.4	-179.98	-4,531.9	-189.0	1,903.0	1,820.8	82.23	23.144	
15,300.0	10,601.0	17,188.0	12,502.0	85.5	88.8	-179.98	-4,631.9	-188.1	1,903.0	1,819.4	83.65	22.750	
15,400.0	10,601.0	17,288.0	12,502.0	87.0	90.2	-179.98	-4,731.9	-187.3	1,903.0	1,817.9	85.08	22.368	
15,500.0	10,601.0	17,388.0	12,502.0	88.5	91.7	-179.98	-4,831.9	-186.5	1,903.0	1,816.5	86.51	21.998	
15,600.0	10,601.0	17,488.0	12,502.0	90.0	93.1	-179.98	-4,931.9	-185.7	1,903.0	1,815.1	87.94	21.639	
15,700.0	10,601.0	17,588.0	12,502.0	91.5	94.6	-179.98	-5,031.8	-184.9	1,903.0	1,813.6	89.39	21.290	
15,800.0	10,601.0	17,688.0	12,502.0	93.0	96.0	-179.98	-5,131.8	-184.1	1,903.0	1,812.2	90.83	20.951	
15,900.0	10,601.0	17,788.0	12,502.0	94.5	97.5	-179.98	-5,231.8	-183.2	1,903.0	1,810.7	92.28	20.622	
16,000.0	10,601.0	17,888.0	12,502.0	96.0	99.0	-179.98	-5,331.8	-182.4	1,903.0	1,809.3	93.73	20.302	
16,100.0	10,601.0	17,988.0	12,502.0	97.5	100.5	-179.98	-5,431.8	-181.6	1,903.0	1,807.8	95.19	19.991	
16,200.0	10,601.0	18,088.0	12,502.0	99.1	101.9	-179.98	-5,531.8	-180.8	1,903.0	1,806.3	96.65	19.689	
16,300.0	10,601.0	18,188.0	12,502.0	100.6	103.4	-179.98	-5,631.8	-180.0	1,903.0	1,804.9	98.12	19.395	
16,400.0	10,601.0	18,288.0	12,502.0	102.1	104.9	-179.98	-5,731.8	-179.2	1,903.0	1,803.4	99.58	19.110	
16,500.0	10,601.0	18,388.0	12,502.0	103.7	106.4	-179.98	-5,831.8	-178.3	1,903.0	1,801.9	101.05	18.832	
16,600.0	10,601.0	18,488.0	12,502.0	105.2	107.9	-179.98	-5,931.8	-177.5	1,903.0	1,800.5	102.53	18.561	
16,700.0	10,601.0	18,588.0	12,502.0	106.7	109.4	-179.98	-6,031.8	-176.7	1,903.0	1,799.0	104.00	18.298	
16,800.0	10,601.0	18,688.0	12,502.0	108.3	111.0	-179.99	-6,131.8	-175.9	1,903.0	1,797.5	105.48	18.041	
16,900.0	10,601.0	18,788.0	12,502.0	109.8	112.5	-179.99	-6,231.8	-175.1	1,903.0	1,796.0	106.96	17.791	
17,000.0	10,601.0	18,888.0	12,502.0	111.4	114.0	-179.99	-6,331.8	-174.3	1,903.0	1,794.6	108.44	17.548	
17,100.0	10,601.0	18,988.0	12,502.0	113.0	115.5	-179.99	-6,431.8	-173.4	1,903.0	1,793.1	109.93	17.311	
17,200.0	10,601.0	19,088.0	12,502.0	114.5	117.0	-179.99	-6,531.8	-172.6	1,903.0	1,791.6	111.42	17.080	
17,300.0	10,601.0	19,188.0	12,502.0	116.1	118.6	-179.99	-6,631.8	-171.8	1,903.0	1,790.1	112.91	16.854	
17,400.0	10,601.0	19,288.0	12,502.0	117.6	120.1	-179.99	-6,731.8	-171.0	1,903.0	1,788.6	114.40	16.634	
17,500.0	10,601.0	19,388.0	12,502.0	119.2	121.6	-179.99	-6,831.8	-170.2	1,903.0	1,787.1	115.90	16.420	
17,600.0	10,601.0	19,488.0	12,502.0	120.8	123.2	-179.99	-6,931.8	-169.4	1,903.0	1,785.6	117.39	16.211	
17,700.0	10,601.0	19,588.0	12,502.0	122.3	124.7	-179.99	-7,031.8	-168.5	1,903.0	1,784.1	118.89	16.006	
17,800.0	10,601.0	19,688.0	12,502.0	123.9	126.3	-179.99	-7,131.8	-167.7	1,903.0	1,782.6	120.39	15.807	
17,900.0	10,601.0	19,788.0	12,502.0	125.5	127.8	-179.99	-7,231.8	-166.9	1,903.0	1,781.1	121.89	15.612	
18,000.0	10,601.0	19,888.0	12,502.0	127.1	129.4	-179.99	-7,331.8	-166.1	1,903.0	1,779.6	123.40	15.422	
18,100.0	10,601.0	19,988.0	12,502.0	128.6	130.9	-179.99	-7,431.8	-165.3	1,903.0	1,778.1	124.90	15.236	
18,200.0	10,601.0	20,088.0	12,502.0	130.2	132.5	-179.99	-7,531.8	-164.5	1,903.0	1,776.6	126.41	15.054	
18,300.0	10,601.0	20,188.0	12,502.0	131.8	134.0	-179.99	-7,631.8	-163.6	1,903.0	1,775.1	127.92	14.877	
18,400.0	10,601.0	20,288.0	12,502.0	133.4	135.6	-179.99	-7,731.8	-162.8	1,903.0	1,773.6	129.43	14.703	
18,500.0	10,601.0	20,388.0	12,502.0	135.0	137.2	-179.99	-7,831.8	-162.0	1,903.0	1,772.1	130.94	14.534	
18,600.0	10,601.0	20,488.0	12,502.0	136.6	138.7	-179.99	-7,931.8	-161.2	1,903.0	1,770.6	132.45	14.368	
18,700.0	10,601.0	20,588.0	12,502.0	138.1	140.3	-179.99	-8,031.7	-160.4	1,903.0	1,769.0	133.96	14.205	
18,800.0	10,601.0	20,688.0	12,502.0	139.7	141.9	-179.99	-8,131.7	-159.6	1,903.0	1,767.5	135.48	14.046	
18,900.0	10,601.0	20,788.0	12,502.0	141.3	143.4	-179.99	-8,231.7	-158.7	1,903.0	1,766.0	137.00	13.891	
19,000.0	10,601.0	20,888.0	12,502.0	142.9	145.0	-179.99	-8,331.7	-157.9	1,903.0	1,764.5	138.51	13.739	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #223H - 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
19,100.0	10,601.0	20,988.0	12,502.0	144.5	146.6	-179.99	-8,431.7	-157.1	1,903.0	1,763.0	140.03	13.590	
19,200.0	10,601.0	21,088.0	12,502.0	146.1	148.2	-179.99	-8,531.7	-156.3	1,903.0	1,761.4	141.55	13.444	
19,300.0	10,601.0	21,188.0	12,502.0	147.7	149.7	-179.99	-8,631.7	-155.5	1,903.0	1,759.9	143.07	13.301	
19,400.0	10,601.0	21,288.0	12,502.0	149.3	151.3	-179.99	-8,731.7	-154.7	1,903.0	1,758.4	144.59	13.161	
19,500.0	10,601.0	21,388.0	12,502.0	150.9	152.9	-179.99	-8,831.7	-153.8	1,903.0	1,756.9	146.12	13.024	
19,600.0	10,601.0	21,488.0	12,502.0	152.5	154.5	-179.99	-8,931.7	-153.0	1,903.0	1,755.4	147.64	12.889	
19,700.0	10,601.0	21,588.0	12,502.0	154.1	156.1	-179.99	-9,031.7	-152.2	1,903.0	1,753.8	149.16	12.758	
19,800.0	10,601.0	21,688.0	12,502.0	155.7	157.6	-179.99	-9,131.7	-151.4	1,903.0	1,752.3	150.69	12.629	
19,900.0	10,601.0	21,788.0	12,502.0	157.3	159.2	-179.99	-9,231.7	-150.6	1,903.0	1,750.8	152.22	12.502	
20,000.0	10,601.0	21,888.0	12,502.0	158.9	160.8	-179.99	-9,331.7	-149.8	1,903.0	1,749.3	153.74	12.378	
20,100.0	10,601.0	21,988.0	12,502.0	160.5	162.4	-179.99	-9,431.7	-148.9	1,903.0	1,747.7	155.27	12.256	
20,200.0	10,601.0	22,088.0	12,502.0	162.1	164.0	-179.99	-9,531.7	-148.1	1,903.0	1,746.2	156.80	12.136	
20,300.0	10,601.0	22,188.0	12,502.0	163.7	165.6	-179.99	-9,631.7	-147.3	1,903.0	1,744.7	158.33	12.019	
20,400.0	10,601.0	22,288.0	12,502.0	165.3	167.2	-179.99	-9,731.7	-146.5	1,903.0	1,743.1	159.86	11.904	
20,500.0	10,601.0	22,388.0	12,502.0	167.0	168.8	-179.99	-9,831.7	-145.7	1,903.0	1,741.6	161.39	11.791	
20,600.0	10,601.0	22,488.0	12,502.0	168.6	170.4	-179.99	-9,931.7	-144.9	1,903.0	1,740.1	162.93	11.680	
20,700.0	10,601.0	22,588.0	12,502.0	170.2	172.0	-179.99	-10,031.7	-144.0	1,903.0	1,738.5	164.46	11.571	
20,800.0	10,601.0	22,688.0	12,502.0	171.8	173.6	-179.99	-10,131.7	-143.2	1,903.0	1,737.0	165.99	11.464	
20,900.0	10,601.0	22,788.0	12,502.0	173.4	175.2	-179.99	-10,231.7	-142.4	1,903.0	1,735.5	167.53	11.359	
21,000.0	10,601.0	22,888.0	12,502.0	175.0	176.8	-179.99	-10,331.7	-141.6	1,903.0	1,733.9	169.06	11.256	
21,100.0	10,601.0	22,988.0	12,502.0	176.6	178.4	-179.99	-10,431.7	-140.8	1,903.0	1,732.4	170.60	11.155	
21,200.0	10,601.0	23,088.0	12,502.0	178.2	180.0	-179.99	-10,531.7	-139.9	1,903.0	1,730.9	172.13	11.056	
21,300.0	10,601.0	23,188.0	12,502.0	179.9	181.6	-179.99	-10,631.7	-139.1	1,903.0	1,729.3	173.67	10.958	
21,400.0	10,601.0	23,288.0	12,502.0	181.5	183.2	-180.00	-10,731.7	-138.3	1,903.0	1,727.8	175.21	10.862	
21,500.0	10,601.0	23,388.0	12,502.0	183.1	184.8	-180.00	-10,831.7	-137.5	1,903.0	1,726.3	176.74	10.767	
21,600.0	10,601.0	23,488.0	12,502.0	184.7	186.4	-180.00	-10,931.7	-136.7	1,903.0	1,724.7	178.28	10.674	
21,700.0	10,601.0	23,588.0	12,502.0	186.3	188.0	-180.00	-11,031.6	-135.9	1,903.0	1,723.2	179.82	10.583	
21,800.0	10,601.0	23,688.0	12,502.0	187.9	189.6	-180.00	-11,131.6	-135.0	1,903.0	1,721.6	181.36	10.493	
21,900.0	10,601.0	23,788.0	12,502.0	189.6	191.2	-180.00	-11,231.6	-134.2	1,903.0	1,720.1	182.90	10.405	
22,000.0	10,601.0	23,888.0	12,502.0	191.2	192.8	-180.00	-11,331.6	-133.4	1,903.0	1,718.6	184.44	10.318	
22,100.0	10,601.0	23,988.0	12,502.0	192.8	194.4	-180.00	-11,431.6	-132.6	1,903.0	1,717.0	185.98	10.232	
22,200.0	10,601.0	24,088.0	12,502.0	194.4	196.0	-180.00	-11,531.6	-131.8	1,903.0	1,715.5	187.52	10.148	
22,300.0	10,601.0	24,188.0	12,502.0	196.1	197.6	-180.00	-11,631.6	-131.0	1,903.0	1,713.9	189.06	10.065	
22,400.0	10,601.0	24,288.0	12,502.0	197.7	199.2	-180.00	-11,731.6	-130.1	1,903.0	1,712.4	190.61	9.984	
22,500.0	10,601.0	24,388.0	12,502.0	199.3	200.9	-180.00	-11,831.6	-129.3	1,903.0	1,710.9	192.15	9.904	
22,600.0	10,601.0	24,488.0	12,502.0	200.9	202.5	-180.00	-11,931.6	-128.5	1,903.0	1,709.3	193.69	9.825	
22,700.0	10,601.0	24,588.0	12,502.0	202.5	204.1	-180.00	-12,031.6	-127.7	1,903.0	1,707.8	195.24	9.747	
22,800.0	10,601.0	24,688.0	12,502.0	204.2	205.7	-180.00	-12,131.6	-126.9	1,903.0	1,706.2	196.78	9.671	
22,900.0	10,601.0	24,788.0	12,502.0	205.8	207.3	-180.00	-12,231.6	-126.1	1,903.0	1,704.7	198.32	9.595	
22,945.3	10,601.0	24,833.3	12,502.0	206.5	208.0	-180.00	-12,276.9	-125.7	1,903.0	1,704.0	199.02	9.562	
23,000.0	10,601.0	24,830.6	12,502.0	207.4	208.0	-180.00	-12,274.2	-125.7	1,903.9	1,704.8	199.08	9.564	
23,083.3	10,601.0	24,830.6	12,502.0	208.6	208.0	-180.00	-12,274.2	-125.7	1,908.2	1,709.4	198.79	9.599	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #227H - 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	1.0	-1.0	0.0	0.0	116.19	-29.6	60.2	67.1				
100.0	100.0	101.0	99.0	0.1	0.1	116.19	-29.6	60.2	67.1	66.8	0.26	258.049	
200.0	200.0	201.0	199.0	0.5	0.5	116.19	-29.6	60.2	67.1	66.1	0.98	68.655	
300.0	300.0	301.0	299.0	0.8	0.8	116.19	-29.6	60.2	67.1	65.4	1.69	39.595	
400.0	400.0	401.0	399.0	1.2	1.2	116.19	-29.6	60.2	67.1	64.7	2.41	27.819	
500.0	500.0	501.0	499.0	1.6	1.6	116.19	-29.6	60.2	67.1	63.9	3.13	21.443	
600.0	600.0	601.0	599.0	1.9	1.9	116.19	-29.6	60.2	67.1	63.2	3.84	17.444	
700.0	700.0	701.0	699.0	2.3	2.3	116.19	-29.6	60.2	67.1	62.5	4.56	14.702	
800.0	800.0	801.0	799.0	2.6	2.6	116.19	-29.6	60.2	67.1	61.8	5.28	12.705	
900.0	900.0	901.0	899.0	3.0	3.0	116.19	-29.6	60.2	67.1	61.1	6.00	11.186	
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	116.19	-29.6	60.2	67.1	60.4	6.71	9.991	
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	116.19	-29.6	60.2	67.1	59.6	7.43	9.027	
1,200.0	1,200.0	1,201.0	1,199.0	4.1	4.1	116.19	-29.6	60.2	67.1	58.9	8.15	8.233	
1,300.0	1,300.0	1,301.0	1,299.0	4.4	4.4	116.19	-29.6	60.2	67.1	58.2	8.86	7.567	
1,400.0	1,400.0	1,401.0	1,399.0	4.8	4.8	116.19	-29.6	60.2	67.1	57.5	9.58	7.000	
1,500.0	1,500.0	1,499.0	1,499.0	5.1	5.1	116.19	-29.6	60.2	67.1	56.8	10.29	6.518	CC
1,600.0	1,600.0	1,598.5	1,598.5	5.5	5.5	115.53	-29.1	60.8	67.4	56.4	11.00	6.129	ES
1,700.0	1,700.0	1,697.9	1,697.9	5.9	5.8	113.60	-27.5	62.8	68.6	56.9	11.71	5.857	
1,800.0	1,800.0	1,797.3	1,797.1	6.2	6.2	110.51	-24.8	66.2	70.7	58.3	12.42	5.693	
1,900.0	1,900.0	1,896.4	1,896.1	6.6	6.6	106.51	-21.0	70.9	74.0	60.8	13.12	5.637	
2,000.0	2,000.0	1,995.3	1,994.7	6.9	6.9	101.89	-16.2	76.8	78.6	64.8	13.82	5.690	
2,100.0	2,100.0	2,093.9	2,092.9	7.3	7.3	96.98	-10.3	84.1	85.0	70.5	14.52	5.854	
2,200.0	2,200.0	2,192.2	2,190.5	7.7	7.6	92.10	-3.4	92.7	93.2	77.9	15.21	6.126	
2,300.0	2,300.0	2,290.0	2,287.5	8.0	8.0	87.48	4.5	102.5	103.3	87.4	15.89	6.500	
2,400.0	2,400.0	2,388.9	2,385.4	8.4	8.4	83.38	13.1	113.2	114.8	98.2	16.59	6.921	
2,500.0	2,500.0	2,487.9	2,483.5	8.7	8.7	80.03	21.8	124.0	126.8	109.5	17.29	7.334	
2,600.0	2,600.0	2,587.0	2,581.6	9.1	9.1	77.27	30.4	134.7	139.2	121.2	18.00	7.733	
2,700.0	2,700.0	2,686.0	2,679.6	9.4	9.5	74.96	39.1	145.4	151.8	133.1	18.71	8.116	
2,800.0	2,800.0	2,785.0	2,777.7	9.8	9.9	73.01	47.7	156.2	164.7	145.3	19.42	8.481	
2,900.0	2,900.0	2,884.0	2,875.8	10.2	10.3	71.34	56.4	166.9	177.7	157.6	20.13	8.827	
3,000.0	3,000.0	2,983.1	2,973.8	10.5	10.7	69.90	65.0	177.6	190.8	170.0	20.84	9.156	
3,100.0	3,100.0	3,082.2	3,072.0	10.9	11.0	57.60	73.7	188.4	203.6	182.1	21.56	9.445	
3,200.0	3,200.0	3,181.5	3,170.3	11.2	11.4	56.97	82.3	199.1	215.5	193.2	22.27	9.675	
3,300.0	3,299.9	3,280.9	3,268.7	11.6	11.8	56.77	91.0	209.9	226.4	203.5	22.99	9.849	
3,400.0	3,399.7	3,380.3	3,367.2	12.0	12.2	56.94	99.7	220.7	236.5	212.7	23.71	9.972	
3,500.0	3,499.4	3,479.9	3,465.8	12.3	12.6	57.35	108.4	231.5	246.0	221.6	24.44	10.067	
3,600.0	3,599.2	3,579.4	3,564.4	12.7	13.0	57.73	117.1	242.3	255.5	230.4	25.16	10.156	
3,700.0	3,698.9	3,678.9	3,662.9	13.0	13.4	58.08	125.8	253.1	265.1	239.2	25.89	10.241	
3,800.0	3,798.7	3,778.5	3,761.5	13.4	13.8	58.41	134.5	263.8	274.7	248.1	26.61	10.320	
3,900.0	3,898.5	3,878.0	3,860.0	13.8	14.2	58.71	143.2	274.6	284.3	256.9	27.34	10.396	
4,000.0	3,998.2	3,977.5	3,958.6	14.1	14.6	59.00	151.8	285.4	293.8	265.8	28.07	10.467	
4,100.0	4,098.0	4,077.0	4,057.2	14.5	15.0	59.27	160.5	296.2	303.4	274.6	28.80	10.535	
4,200.0	4,197.7	4,176.6	4,155.7	14.8	15.5	59.52	169.2	307.0	313.0	283.5	29.53	10.599	
4,300.0	4,297.5	4,276.1	4,254.3	15.2	15.9	59.75	177.9	317.8	322.6	292.4	30.27	10.660	
4,400.0	4,397.2	4,375.6	4,352.8	15.6	16.3	59.97	186.6	328.6	332.2	301.2	31.00	10.718	
4,500.0	4,497.0	4,475.2	4,451.4	15.9	16.7	60.18	195.3	339.4	341.9	310.1	31.73	10.773	
4,600.0	4,596.8	4,574.7	4,550.0	16.3	17.1	60.38	204.0	350.1	351.5	319.0	32.47	10.826	
4,700.0	4,696.5	4,674.2	4,648.5	16.7	17.5	60.57	212.7	360.9	361.1	327.9	33.20	10.876	
4,800.0	4,796.3	4,773.8	4,747.1	17.0	17.9	60.75	221.4	371.7	370.7	336.8	33.94	10.924	
4,900.0	4,896.0	4,873.3	4,845.6	17.4	18.3	60.92	230.0	382.5	380.4	345.7	34.67	10.970	
5,000.0	4,995.8	4,972.8	4,944.2	17.8	18.7	61.08	238.7	393.3	390.0	354.6	35.41	11.014	
5,100.0	5,095.5	5,072.3	5,042.8	18.1	19.1	61.23	247.4	404.1	399.6	363.5	36.15	11.056	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #227H - 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
5,200.0	5,195.3	5,180.6	5,150.1	18.5	19.6	61.44	256.3	415.0	408.4	371.5	36.97	11.048	
5,300.0	5,295.0	5,291.4	5,260.4	18.9	20.0	61.80	263.4	423.8	414.6	376.8	37.79	10.971	
5,400.0	5,394.8	5,402.5	5,371.1	19.2	20.4	62.33	268.4	430.2	418.1	379.5	38.59	10.836	
5,500.0	5,494.6	5,513.7	5,482.2	19.6	20.8	63.01	271.5	434.0	419.0	379.6	39.35	10.647	
5,600.0	5,594.3	5,624.6	5,593.1	20.0	21.2	63.87	272.6	435.3	417.2	377.2	40.09	10.409	
5,700.0	5,694.1	5,724.6	5,693.1	20.3	21.5	64.74	272.6	435.3	414.2	373.4	40.81	10.150	
5,800.0	5,793.8	5,824.3	5,792.8	20.7	21.8	65.61	272.6	435.3	411.3	369.7	41.53	9.902	
5,900.0	5,893.6	5,924.1	5,892.6	21.1	22.2	66.50	272.6	435.3	408.4	366.2	42.26	9.665	
6,000.0	5,993.3	6,023.9	5,992.3	21.4	22.5	67.40	272.6	435.3	405.7	362.7	42.99	9.438	
6,100.0	6,093.1	6,123.6	6,092.1	21.8	22.8	68.32	272.6	435.3	403.1	359.4	43.71	9.221	
6,200.0	6,192.9	6,223.4	6,191.9	22.2	23.2	69.24	272.6	435.3	400.5	356.1	44.44	9.013	
6,300.0	6,292.6	6,323.1	6,291.6	22.5	23.5	70.18	272.6	435.3	398.1	352.9	45.17	8.814	
6,400.0	6,392.4	6,422.9	6,391.4	22.9	23.8	71.13	272.6	435.3	395.8	349.9	45.90	8.623	
6,500.0	6,492.1	6,522.6	6,491.1	23.3	24.2	72.09	272.6	435.3	393.6	347.0	46.63	8.441	
6,600.0	6,591.9	6,622.4	6,590.9	23.6	24.5	73.05	272.6	435.3	391.5	344.1	47.36	8.266	
6,700.0	6,691.6	6,722.1	6,690.6	24.0	24.9	74.03	272.6	435.3	389.5	341.4	48.09	8.099	
6,800.0	6,791.4	6,821.9	6,790.4	24.4	25.2	75.02	272.6	435.3	387.7	338.8	48.83	7.939	
6,900.0	6,891.1	6,921.7	6,890.1	24.7	25.5	76.02	272.6	435.3	385.9	336.3	49.56	7.787	
7,000.0	6,990.9	7,021.4	6,989.9	25.1	25.9	77.03	272.6	435.3	384.3	334.0	50.29	7.641	
7,020.0	7,010.8	7,041.3	7,009.8	25.2	25.9	77.23	272.6	435.3	384.0	333.5	50.44	7.613	
7,100.0	7,090.7	7,121.2	7,089.7	25.5	26.2	77.91	272.6	435.3	382.9	331.9	51.02	7.505	
7,200.0	7,190.6	7,221.2	7,189.6	25.8	26.6	78.42	272.6	435.3	382.2	330.5	51.74	7.387	
7,286.6	7,277.3	7,307.8	7,276.3	26.1	26.9	89.70	272.6	435.3	382.0	329.7	52.35	7.297	
7,300.0	7,290.6	7,321.2	7,289.6	26.2	26.9	89.70	272.6	435.3	382.0	329.6	52.45	7.284	
7,400.0	7,390.6	7,421.2	7,389.6	26.5	27.2	89.70	272.6	435.3	382.0	328.9	53.15	7.188	
7,500.0	7,490.6	7,521.2	7,489.6	26.9	27.6	89.70	272.6	435.3	382.0	328.2	53.85	7.094	
7,600.0	7,590.6	7,621.2	7,589.6	27.3	27.9	89.70	272.6	435.3	382.0	327.5	54.55	7.003	
7,700.0	7,690.6	7,721.2	7,689.6	27.6	28.3	89.70	272.6	435.3	382.0	326.8	55.25	6.914	
7,800.0	7,790.6	7,821.2	7,789.6	28.0	28.6	89.70	272.6	435.3	382.0	326.1	55.96	6.827	
7,900.0	7,890.6	7,921.2	7,889.6	28.3	29.0	89.70	272.6	435.3	382.0	325.4	56.66	6.742	
8,000.0	7,990.6	8,021.2	7,989.6	28.7	29.3	89.70	272.6	435.3	382.0	324.6	57.36	6.659	
8,100.0	8,090.6	8,121.2	8,089.6	29.0	29.6	89.70	272.6	435.3	382.0	323.9	58.07	6.579	
8,200.0	8,190.6	8,221.2	8,189.6	29.4	30.0	89.70	272.6	435.3	382.0	323.2	58.77	6.500	
8,300.0	8,290.6	8,321.2	8,289.6	29.7	30.3	89.70	272.6	435.3	382.0	322.5	59.48	6.423	
8,400.0	8,390.6	8,421.2	8,389.6	30.1	30.7	89.70	272.6	435.3	382.0	321.8	60.18	6.348	
8,500.0	8,490.6	8,521.2	8,489.6	30.4	31.0	89.70	272.6	435.3	382.0	321.1	60.89	6.274	
8,600.0	8,590.6	8,621.2	8,589.6	30.8	31.4	89.70	272.6	435.3	382.0	320.4	61.59	6.202	
8,700.0	8,690.6	8,721.2	8,689.6	31.2	31.7	89.70	272.6	435.3	382.0	319.7	62.30	6.132	
8,800.0	8,790.6	8,821.2	8,789.6	31.5	32.1	89.70	272.6	435.3	382.0	319.0	63.00	6.063	
8,900.0	8,890.6	8,921.2	8,889.6	31.9	32.4	89.70	272.6	435.3	382.0	318.3	63.71	5.996	
9,000.0	8,990.6	9,021.2	8,989.6	32.2	32.8	89.70	272.6	435.3	382.0	317.6	64.42	5.930	
9,100.0	9,090.6	9,121.2	9,089.6	32.6	33.1	89.70	272.6	435.3	382.0	316.9	65.12	5.866	
9,200.0	9,190.6	9,221.2	9,189.6	32.9	33.5	89.70	272.6	435.3	382.0	316.2	65.83	5.803	
9,300.0	9,290.6	9,321.2	9,289.6	33.3	33.8	89.70	272.6	435.3	382.0	315.5	66.54	5.741	
9,400.0	9,390.6	9,421.2	9,389.6	33.6	34.2	89.70	272.6	435.3	382.0	314.8	67.24	5.681	
9,500.0	9,490.6	9,521.2	9,489.6	34.0	34.5	89.70	272.6	435.3	382.0	314.1	67.95	5.622	
9,600.0	9,590.6	9,621.2	9,589.6	34.3	34.8	89.70	272.6	435.3	382.0	313.4	68.66	5.564	
9,700.0	9,690.6	9,721.2	9,689.6	34.7	35.2	89.70	272.6	435.3	382.0	312.6	69.37	5.507	
9,800.0	9,790.6	9,821.2	9,789.6	35.1	35.5	89.70	272.6	435.3	382.0	311.9	70.07	5.451	
9,900.0	9,890.6	9,921.2	9,889.6	35.4	35.9	89.70	272.6	435.3	382.0	311.2	70.78	5.397	
10,000.0	9,990.6	10,021.2	9,989.6	35.8	36.2	89.70	272.6	435.3	382.0	310.5	71.49	5.343	
10,037.4	10,028.0	10,058.5	10,027.0	35.9	36.4	89.70	272.6	435.3	382.0	310.3	71.76	5.324	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #227H - 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
10,050.0	10,040.6	10,071.2	10,039.6	35.9	36.4	-106.41	272.6	435.3	382.1	310.2	71.84	5.318	
10,100.0	10,090.5	10,121.0	10,089.5	36.1	36.6	-106.79	272.6	435.3	383.0	310.8	72.17	5.307	SF
10,150.0	10,139.9	10,170.4	10,138.9	36.2	36.8	-107.65	272.6	435.3	385.3	312.8	72.47	5.316	
10,200.0	10,188.5	10,219.0	10,187.5	36.4	36.9	-108.91	272.6	435.3	389.1	316.3	72.76	5.348	
10,250.0	10,235.8	10,266.3	10,234.8	36.5	37.1	-110.48	272.6	435.3	394.8	321.8	73.03	5.406	
10,300.0	10,281.5	10,312.1	10,280.5	36.6	37.3	-112.23	272.6	435.3	402.7	329.4	73.28	5.495	
10,350.0	10,325.4	10,355.9	10,324.4	36.7	37.4	-114.02	272.6	435.3	413.3	339.8	73.52	5.621	
10,400.0	10,366.9	10,402.6	10,365.9	36.9	37.6	-115.71	272.6	435.3	426.8	353.1	73.76	5.787	
10,450.0	10,405.9	10,436.4	10,404.9	37.0	37.7	-117.16	272.6	435.3	443.7	369.7	73.95	6.000	
10,500.0	10,442.0	10,472.5	10,441.0	37.1	37.8	-118.24	272.6	435.3	464.1	389.9	74.14	6.259	
10,550.0	10,474.9	10,505.4	10,473.9	37.2	37.9	-118.82	272.6	435.3	488.0	413.7	74.32	6.567	
10,600.0	10,504.5	10,535.0	10,503.5	37.3	38.0	-118.79	272.6	435.3	515.5	441.1	74.48	6.922	
10,650.0	10,530.4	10,560.9	10,529.4	37.4	38.1	-118.00	272.6	435.3	546.4	471.8	74.62	7.323	
10,700.0	10,552.5	10,583.0	10,551.5	37.5	38.2	-116.31	272.6	435.3	580.5	505.7	74.75	7.766	
10,750.0	10,570.6	10,601.1	10,569.6	37.6	38.3	-113.53	272.6	435.3	617.3	542.5	74.86	8.247	
10,800.0	10,584.6	10,615.1	10,583.6	37.7	38.3	-109.44	272.6	435.3	656.6	581.6	74.94	8.761	
10,850.0	10,594.3	10,624.8	10,593.3	37.8	38.4	-103.83	272.6	435.3	697.8	622.8	75.00	9.303	
10,900.0	10,599.7	10,630.3	10,598.7	37.9	38.4	-96.53	272.6	435.3	740.5	665.5	75.05	9.867	
10,937.4	10,601.0	10,631.5	10,600.0	38.0	38.4	-90.00	272.6	435.3	773.2	698.1	75.06	10.300	
11,000.0	10,601.0	10,631.5	10,600.0	38.2	38.4	-90.00	272.6	435.3	828.6	753.5	75.09	11.035	
11,100.0	10,601.0	10,631.5	10,600.0	38.5	38.4	-90.00	272.6	435.3	917.7	842.6	75.13	12.215	
11,200.0	10,601.0	10,631.5	10,600.0	38.9	38.4	-90.00	272.6	435.3	1,007.5	932.3	75.17	13.403	
11,300.0	10,601.0	10,631.5	10,600.0	39.4	38.4	-90.00	272.6	435.3	1,097.6	1,022.4	75.21	14.593	
11,400.0	10,601.0	10,631.5	10,600.0	39.9	38.4	-90.00	272.6	435.3	1,188.0	1,112.7	75.26	15.785	
11,500.0	10,601.0	10,631.5	10,600.0	40.4	38.4	-90.00	272.6	435.3	1,278.3	1,203.0	75.31	16.975	
11,600.0	10,601.0	10,631.5	10,600.0	41.0	38.4	-90.00	272.6	435.3	1,368.7	1,293.3	75.35	18.163	
11,700.0	10,601.0	10,631.5	10,600.0	41.7	38.4	-90.00	272.6	435.3	1,458.8	1,383.4	75.40	19.348	
11,766.0	10,601.0	10,631.5	10,600.0	42.2	38.4	-90.00	272.6	435.3	1,518.2	1,442.8	75.43	20.127	
11,800.0	10,601.0	10,631.5	10,600.0	42.4	38.4	-90.00	272.6	435.3	1,548.9	1,473.4	75.45	20.529	
11,900.0	10,601.0	10,631.5	10,600.0	43.2	38.4	-90.00	272.6	435.3	1,639.8	1,564.3	75.50	21.719	
12,000.0	10,601.0	13,555.7	12,171.0	44.0	48.6	-157.22	-1,326.5	443.7	1,703.9	1,652.6	51.25	33.248	
12,100.0	10,601.0	13,655.7	12,171.0	44.8	49.4	-157.22	-1,426.5	444.5	1,703.9	1,651.6	52.30	32.577	
12,200.0	10,601.0	13,755.7	12,171.0	45.7	50.2	-157.22	-1,526.5	445.3	1,703.9	1,650.5	53.41	31.903	
12,300.0	10,601.0	13,855.7	12,171.0	46.6	51.1	-157.22	-1,626.5	446.2	1,703.9	1,649.3	54.56	31.231	
12,400.0	10,601.0	13,955.7	12,171.0	47.6	52.0	-157.22	-1,726.5	447.0	1,703.9	1,648.1	55.75	30.563	
12,500.0	10,601.0	14,055.7	12,171.0	48.6	52.9	-157.22	-1,826.5	447.8	1,703.9	1,646.9	56.98	29.901	
12,600.0	10,601.0	14,155.7	12,171.0	49.7	53.9	-157.22	-1,926.5	448.6	1,703.9	1,645.6	58.25	29.249	
12,700.0	10,601.0	14,255.7	12,171.0	50.8	54.9	-157.22	-2,026.5	449.5	1,703.9	1,644.3	59.56	28.608	
12,800.0	10,601.0	14,355.7	12,171.0	51.9	55.9	-157.22	-2,126.5	450.3	1,703.9	1,643.0	60.90	27.978	
12,900.0	10,601.0	14,455.7	12,171.0	53.0	57.0	-157.22	-2,226.5	451.1	1,703.9	1,641.6	62.27	27.363	
13,000.0	10,601.0	14,555.7	12,171.0	54.2	58.1	-157.22	-2,326.5	451.9	1,703.9	1,640.2	63.67	26.762	
13,100.0	10,601.0	14,655.7	12,171.0	55.4	59.2	-157.22	-2,426.5	452.8	1,703.9	1,638.8	65.09	26.175	
13,200.0	10,601.0	14,755.7	12,171.0	56.6	60.3	-157.22	-2,526.5	453.6	1,703.9	1,637.3	66.55	25.604	
13,300.0	10,601.0	14,855.7	12,171.0	57.8	61.5	-157.22	-2,626.5	454.4	1,703.9	1,635.9	68.02	25.049	
13,400.0	10,601.0	14,955.7	12,171.0	59.1	62.7	-157.22	-2,726.5	455.2	1,703.9	1,634.4	69.52	24.510	
13,500.0	10,601.0	15,055.7	12,171.0	60.3	63.9	-157.22	-2,826.5	456.1	1,703.9	1,632.8	71.04	23.986	
13,600.0	10,601.0	15,155.7	12,171.0	61.6	65.1	-157.22	-2,926.5	456.9	1,703.9	1,631.3	72.57	23.478	
13,700.0	10,601.0	15,255.7	12,171.0	62.9	66.4	-157.22	-3,026.5	457.7	1,703.9	1,629.8	74.13	22.985	
13,800.0	10,601.0	15,355.7	12,171.0	64.3	67.6	-157.22	-3,126.5	458.6	1,703.9	1,628.2	75.70	22.507	
13,900.0	10,601.0	15,455.7	12,171.0	65.6	68.9	-157.22	-3,226.5	459.4	1,703.9	1,626.6	77.29	22.044	
14,000.0	10,601.0	15,555.7	12,171.0	66.9	70.2	-157.22	-3,326.5	460.2	1,703.9	1,625.0	78.90	21.596	
14,100.0	10,601.0	15,655.7	12,171.0	68.3	71.5	-157.22	-3,426.5	461.0	1,703.9	1,623.4	80.52	21.162	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #227H - 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
14,200.0	10,601.0	15,755.7	12,171.0	69.7	72.8	-157.22	-3,526.5	461.9	1,703.9	1,621.7	82.15	20.741	
14,300.0	10,601.0	15,855.7	12,171.0	71.1	74.2	-157.22	-3,626.4	462.7	1,703.9	1,620.1	83.79	20.334	
14,400.0	10,601.0	15,955.7	12,171.0	72.5	75.5	-157.22	-3,726.4	463.5	1,703.9	1,618.4	85.45	19.940	
14,500.0	10,601.0	16,055.7	12,171.0	73.9	76.9	-157.22	-3,826.4	464.3	1,703.9	1,616.8	87.12	19.558	
14,600.0	10,601.0	16,155.7	12,171.0	75.3	78.2	-157.22	-3,926.4	465.2	1,703.9	1,615.1	88.80	19.188	
14,700.0	10,601.0	16,255.7	12,171.0	76.8	79.6	-157.22	-4,026.4	466.0	1,703.9	1,613.4	90.49	18.830	
14,800.0	10,601.0	16,355.7	12,171.0	78.2	81.0	-157.22	-4,126.4	466.8	1,703.9	1,611.7	92.19	18.483	
14,900.0	10,601.0	16,455.7	12,171.0	79.6	82.4	-157.22	-4,226.4	467.6	1,703.9	1,610.0	93.89	18.147	
15,000.0	10,601.0	16,555.7	12,171.0	81.1	83.8	-157.22	-4,326.4	468.5	1,703.9	1,608.3	95.61	17.822	
15,100.0	10,601.0	16,655.7	12,171.0	82.6	85.2	-157.22	-4,426.4	469.3	1,703.9	1,606.6	97.33	17.506	
15,200.0	10,601.0	16,755.7	12,171.0	84.0	86.7	-157.22	-4,526.4	470.1	1,703.9	1,604.8	99.06	17.200	
15,300.0	10,601.0	16,855.7	12,171.0	85.5	88.1	-157.22	-4,626.4	471.0	1,703.9	1,603.1	100.80	16.903	
15,400.0	10,601.0	16,955.7	12,171.0	87.0	89.6	-157.22	-4,726.4	471.8	1,703.9	1,601.4	102.55	16.616	
15,500.0	10,601.0	17,055.7	12,171.0	88.5	91.0	-157.22	-4,826.4	472.6	1,703.9	1,599.6	104.30	16.337	
15,600.0	10,601.0	17,155.7	12,171.0	90.0	92.5	-157.22	-4,926.4	473.4	1,703.9	1,597.8	106.06	16.066	
15,700.0	10,601.0	17,255.7	12,171.0	91.5	93.9	-157.22	-5,026.4	474.3	1,703.9	1,596.1	107.82	15.803	
15,800.0	10,601.0	17,355.7	12,171.0	93.0	95.4	-157.22	-5,126.4	475.1	1,703.9	1,594.3	109.59	15.548	
15,900.0	10,601.0	17,455.7	12,171.0	94.5	96.9	-157.22	-5,226.4	475.9	1,703.9	1,592.5	111.37	15.300	
16,000.0	10,601.0	17,555.7	12,171.0	96.0	98.3	-157.22	-5,326.4	476.7	1,703.9	1,590.8	113.15	15.059	
16,100.0	10,601.0	17,655.7	12,171.0	97.5	99.8	-157.22	-5,426.4	477.6	1,703.9	1,589.0	114.93	14.825	
16,200.0	10,601.0	17,755.7	12,171.0	99.1	101.3	-157.22	-5,526.4	478.4	1,703.9	1,587.2	116.72	14.598	
16,300.0	10,601.0	17,855.7	12,171.0	100.6	102.8	-157.22	-5,626.4	479.2	1,703.9	1,585.4	118.52	14.377	
16,400.0	10,601.0	17,955.7	12,171.0	102.1	104.3	-157.22	-5,726.4	480.1	1,703.9	1,583.6	120.31	14.162	
16,500.0	10,601.0	18,055.7	12,171.0	103.7	105.8	-157.22	-5,826.4	480.9	1,703.9	1,581.8	122.12	13.953	
16,600.0	10,601.0	18,155.7	12,171.0	105.2	107.3	-157.22	-5,926.4	481.7	1,703.9	1,580.0	123.92	13.750	
16,700.0	10,601.0	18,255.7	12,171.0	106.7	108.9	-157.22	-6,026.4	482.5	1,703.9	1,578.2	125.73	13.552	
16,800.0	10,601.0	18,355.7	12,171.0	108.3	110.4	-157.22	-6,126.4	483.4	1,703.9	1,576.4	127.55	13.359	
16,900.0	10,601.0	18,455.7	12,171.0	109.8	111.9	-157.22	-6,226.4	484.2	1,703.9	1,574.6	129.36	13.172	
17,000.0	10,601.0	18,555.7	12,171.0	111.4	113.4	-157.22	-6,326.4	485.0	1,703.9	1,572.7	131.18	12.989	
17,100.0	10,601.0	18,655.7	12,171.0	113.0	115.0	-157.22	-6,426.4	485.8	1,703.9	1,570.9	133.01	12.811	
17,200.0	10,601.0	18,755.7	12,171.0	114.5	116.5	-157.22	-6,526.3	486.7	1,703.9	1,569.1	134.83	12.637	
17,300.0	10,601.0	18,855.7	12,171.0	116.1	118.0	-157.22	-6,626.3	487.5	1,703.9	1,567.3	136.66	12.468	
17,400.0	10,601.0	18,955.7	12,171.0	117.6	119.6	-157.22	-6,726.3	488.3	1,703.9	1,565.4	138.50	12.303	
17,500.0	10,601.0	19,055.7	12,171.0	119.2	121.1	-157.22	-6,826.3	489.1	1,703.9	1,563.6	140.33	12.142	
17,600.0	10,601.0	19,155.7	12,171.0	120.8	122.6	-157.22	-6,926.3	490.0	1,703.9	1,561.8	142.17	11.985	
17,700.0	10,601.0	19,255.7	12,171.0	122.3	124.2	-157.22	-7,026.3	490.8	1,703.9	1,559.9	144.01	11.832	
17,800.0	10,601.0	19,355.7	12,171.0	123.9	125.7	-157.22	-7,126.3	491.6	1,703.9	1,558.1	145.85	11.683	
17,900.0	10,601.0	19,455.7	12,171.0	125.5	127.3	-157.22	-7,226.3	492.5	1,703.9	1,556.2	147.69	11.537	
18,000.0	10,601.0	19,555.7	12,171.0	127.1	128.9	-157.22	-7,326.3	493.3	1,703.9	1,554.4	149.54	11.394	
18,100.0	10,601.0	19,655.7	12,171.0	128.6	130.4	-157.22	-7,426.3	494.1	1,703.9	1,552.5	151.39	11.255	
18,200.0	10,601.0	19,755.7	12,171.0	130.2	132.0	-157.22	-7,526.3	494.9	1,703.9	1,550.7	153.24	11.119	
18,300.0	10,601.0	19,855.7	12,171.0	131.8	133.5	-157.22	-7,626.3	495.8	1,703.9	1,548.8	155.09	10.987	
18,400.0	10,601.0	19,955.7	12,171.0	133.4	135.1	-157.22	-7,726.3	496.6	1,703.9	1,547.0	156.95	10.857	
18,500.0	10,601.0	20,055.7	12,171.0	135.0	136.7	-157.22	-7,826.3	497.4	1,703.9	1,545.1	158.80	10.730	
18,600.0	10,601.0	20,155.7	12,171.0	136.6	138.2	-157.22	-7,926.3	498.2	1,703.9	1,543.3	160.66	10.606	
18,700.0	10,601.0	20,255.7	12,171.0	138.1	139.8	-157.22	-8,026.3	499.1	1,703.9	1,541.4	162.52	10.484	
18,800.0	10,601.0	20,355.7	12,171.0	139.7	141.4	-157.22	-8,126.3	499.9	1,703.9	1,539.6	164.38	10.366	
18,900.0	10,601.0	20,455.7	12,171.0	141.3	142.9	-157.22	-8,226.3	500.7	1,703.9	1,537.7	166.25	10.250	
19,000.0	10,601.0	20,555.7	12,171.0	142.9	144.5	-157.22	-8,326.3	501.5	1,703.9	1,535.8	168.11	10.136	
19,100.0	10,601.0	20,655.7	12,171.0	144.5	146.1	-157.22	-8,426.3	502.4	1,703.9	1,534.0	169.98	10.025	
19,200.0	10,601.0	20,755.7	12,171.0	146.1	147.7	-157.22	-8,526.3	503.2	1,703.9	1,532.1	171.84	9.916	
19,300.0	10,601.0	20,855.7	12,171.0	147.7	149.3	-157.22	-8,626.3	504.0	1,703.9	1,530.2	173.71	9.809	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #227H - 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
19,400.0	10,601.0	20,955.7	12,171.0	149.3	150.8	-157.22	-8,726.3	504.9	1,703.9	1,528.4	175.58	9.704	
19,500.0	10,601.0	21,055.7	12,171.0	150.9	152.4	-157.22	-8,826.3	505.7	1,703.9	1,526.5	177.45	9.602	
19,600.0	10,601.0	21,155.7	12,171.0	152.5	154.0	-157.22	-8,926.3	506.5	1,703.9	1,524.6	179.33	9.502	
19,700.0	10,601.0	21,255.7	12,171.0	154.1	155.6	-157.22	-9,026.3	507.3	1,703.9	1,522.7	181.20	9.404	
19,800.0	10,601.0	21,355.7	12,171.0	155.7	157.2	-157.22	-9,126.3	508.2	1,703.9	1,520.9	183.08	9.307	
19,900.0	10,601.0	21,455.7	12,171.0	157.3	158.8	-157.22	-9,226.3	509.0	1,703.9	1,519.0	184.95	9.213	
20,000.0	10,601.0	21,555.7	12,171.0	158.9	160.4	-157.22	-9,326.3	509.8	1,703.9	1,517.1	186.83	9.120	
20,100.0	10,601.0	21,655.7	12,171.0	160.5	162.0	-157.22	-9,426.2	510.6	1,704.0	1,515.2	188.71	9.029	
20,200.0	10,601.0	21,755.7	12,171.0	162.1	163.6	-157.22	-9,526.2	511.5	1,704.0	1,513.4	190.59	8.940	
20,300.0	10,601.0	21,855.7	12,171.0	163.7	165.1	-157.22	-9,626.2	512.3	1,704.0	1,511.5	192.47	8.853	
20,400.0	10,601.0	21,955.7	12,171.0	165.3	166.7	-157.22	-9,726.2	513.1	1,704.0	1,509.6	194.35	8.767	
20,500.0	10,601.0	22,055.7	12,171.0	167.0	168.3	-157.22	-9,826.2	513.9	1,704.0	1,507.7	196.23	8.683	
20,600.0	10,601.0	22,155.7	12,171.0	168.6	169.9	-157.22	-9,926.2	514.8	1,704.0	1,505.8	198.12	8.601	
20,700.0	10,601.0	22,255.7	12,171.0	170.2	171.5	-157.22	-10,026.2	515.6	1,704.0	1,504.0	200.00	8.520	
20,800.0	10,601.0	22,355.7	12,171.0	171.8	173.1	-157.22	-10,126.2	516.4	1,704.0	1,502.1	201.89	8.440	
20,900.0	10,601.0	22,455.7	12,171.0	173.4	174.7	-157.22	-10,226.2	517.3	1,704.0	1,500.2	203.77	8.362	
21,000.0	10,601.0	22,555.7	12,171.0	175.0	176.3	-157.22	-10,326.2	518.1	1,704.0	1,498.3	205.66	8.285	
21,100.0	10,601.0	22,655.7	12,171.0	176.6	177.9	-157.22	-10,426.2	518.9	1,704.0	1,496.4	207.55	8.210	
21,200.0	10,601.0	22,755.7	12,171.0	178.2	179.5	-157.22	-10,526.2	519.7	1,704.0	1,494.5	209.44	8.136	
21,300.0	10,601.0	22,855.7	12,171.0	179.9	181.1	-157.22	-10,626.2	520.6	1,704.0	1,492.6	211.33	8.063	
21,400.0	10,601.0	22,955.7	12,171.0	181.5	182.8	-157.22	-10,726.2	521.4	1,704.0	1,490.7	213.22	7.992	
21,500.0	10,601.0	23,055.7	12,171.0	183.1	184.4	-157.22	-10,826.2	522.2	1,704.0	1,488.9	215.11	7.921	
21,600.0	10,601.0	23,155.7	12,171.0	184.7	186.0	-157.22	-10,926.2	523.0	1,704.0	1,487.0	217.00	7.852	
21,700.0	10,601.0	23,255.7	12,171.0	186.3	187.6	-157.22	-11,026.2	523.9	1,704.0	1,485.1	218.89	7.784	
21,800.0	10,601.0	23,355.7	12,171.0	187.9	189.2	-157.22	-11,126.2	524.7	1,704.0	1,483.2	220.79	7.718	
21,900.0	10,601.0	23,455.7	12,171.0	189.6	190.8	-157.22	-11,226.2	525.5	1,704.0	1,481.3	222.68	7.652	
22,000.0	10,601.0	23,555.7	12,171.0	191.2	192.4	-157.22	-11,326.2	526.3	1,704.0	1,479.4	224.57	7.588	
22,100.0	10,601.0	23,655.7	12,171.0	192.8	194.0	-157.21	-11,426.2	527.2	1,704.0	1,477.5	226.47	7.524	
22,200.0	10,601.0	23,755.7	12,171.0	194.4	195.6	-157.21	-11,526.2	528.0	1,704.0	1,475.6	228.37	7.462	
22,300.0	10,601.0	23,855.7	12,171.0	196.1	197.2	-157.21	-11,626.2	528.8	1,704.0	1,473.7	230.26	7.400	
22,400.0	10,601.0	23,955.7	12,171.0	197.7	198.8	-157.21	-11,726.2	529.7	1,704.0	1,471.8	232.16	7.340	
22,500.0	10,601.0	24,055.7	12,171.0	199.3	200.5	-157.21	-11,826.2	530.5	1,704.0	1,469.9	234.06	7.280	
22,600.0	10,601.0	24,155.7	12,171.0	200.9	202.1	-157.21	-11,926.2	531.3	1,704.0	1,468.0	235.95	7.222	
22,700.0	10,601.0	24,255.7	12,171.0	202.5	203.7	-157.21	-12,026.2	532.1	1,704.0	1,466.1	237.85	7.164	
22,800.0	10,601.0	24,355.7	12,171.0	204.2	205.3	-157.21	-12,126.2	533.0	1,704.0	1,464.2	239.75	7.107	
22,900.0	10,601.0	24,455.7	12,171.0	205.8	206.9	-157.21	-12,226.2	533.8	1,704.0	1,462.3	241.65	7.051	
22,900.0	10,601.0	24,455.7	12,171.0	205.8	206.9	-157.21	-12,226.2	533.8	1,704.0	1,462.3	241.65	7.051	
23,000.0	10,601.0	24,499.9	12,171.0	207.4	207.6	-157.21	-12,270.4	534.2	1,704.9	1,462.2	242.71	7.024	
23,083.3	10,601.0	24,499.9	12,171.0	208.6	207.6	-157.21	-12,270.4	534.2	1,709.6	1,467.2	242.49	7.050	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #243H - 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	89.62	0.9	140.1	140.1				
100.0	100.0	100.0	100.0	0.1	0.1	89.62	0.9	140.1	140.1	139.9	0.26	546.644	
200.0	200.0	200.0	200.0	0.5	0.5	89.62	0.9	140.1	140.1	139.1	0.97	143.960	
300.0	300.0	300.0	300.0	0.8	0.8	89.62	0.9	140.1	140.1	138.4	1.69	82.895	
400.0	400.0	400.0	400.0	1.2	1.2	89.62	0.9	140.1	140.1	137.7	2.41	58.206	
500.0	500.0	500.0	500.0	1.6	1.6	89.62	0.9	140.1	140.1	137.0	3.12	44.848	
600.0	600.0	600.0	600.0	1.9	1.9	89.62	0.9	140.1	140.1	136.3	3.84	36.477	
700.0	700.0	700.0	700.0	2.3	2.3	89.62	0.9	140.1	140.1	135.6	4.56	30.739	
800.0	800.0	800.0	800.0	2.6	2.6	89.62	0.9	140.1	140.1	134.8	5.27	26.561	
900.0	900.0	900.0	900.0	3.0	3.0	89.62	0.9	140.1	140.1	134.1	5.99	23.383	
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	89.62	0.9	140.1	140.1	133.4	6.71	20.884	
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	89.62	0.9	140.1	140.1	132.7	7.43	18.868	
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	89.62	0.9	140.1	140.1	132.0	8.14	17.207	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	89.62	0.9	140.1	140.1	131.2	8.86	15.814	
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	89.62	0.9	140.1	140.1	130.5	9.58	14.630	
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	89.62	0.9	140.1	140.1	129.8	10.29	13.611	
1,600.0	1,600.0	1,600.0	1,600.0	5.5	5.5	89.62	0.9	140.1	140.1	129.1	11.01	12.725	
1,700.0	1,700.0	1,700.0	1,700.0	5.9	5.9	89.62	0.9	140.1	140.1	128.4	11.73	11.947	
1,800.0	1,800.0	1,800.0	1,800.0	6.2	6.2	89.62	0.9	140.1	140.1	127.7	12.44	11.259	
1,900.0	1,900.0	1,900.0	1,900.0	6.6	6.6	89.62	0.9	140.1	140.1	126.9	13.16	10.646	
2,000.0	2,000.0	2,000.0	2,000.0	6.9	6.9	89.62	0.9	140.1	140.1	126.2	13.88	10.096	
2,100.0	2,100.0	2,099.7	2,099.7	7.3	7.3	89.26	1.8	140.2	140.2	125.6	14.59	9.607	
2,200.0	2,200.0	2,199.4	2,199.4	7.7	7.7	88.21	4.4	140.4	140.5	125.2	15.31	9.178	
2,300.0	2,300.0	2,301.0	2,298.9	8.0	8.0	86.46	8.7	140.8	141.1	125.1	16.03	8.802	
2,400.0	2,400.0	2,401.1	2,398.6	8.4	8.4	84.38	13.9	141.3	142.0	125.3	16.75	8.480	
2,500.0	2,500.0	2,501.3	2,498.3	8.7	8.7	82.33	19.1	141.8	143.1	125.6	17.46	8.194	
2,600.0	2,600.0	2,601.4	2,598.0	9.1	9.1	80.30	24.3	142.3	144.4	126.2	18.18	7.940	
2,700.0	2,700.0	2,701.6	2,697.8	9.4	9.5	78.32	29.5	142.8	145.8	126.9	18.90	7.715	
2,800.0	2,800.0	2,801.7	2,797.5	9.8	9.8	76.38	34.7	143.3	147.4	127.8	19.62	7.515	
2,900.0	2,900.0	2,901.8	2,897.2	10.2	10.2	74.48	39.9	143.7	149.2	128.9	20.34	7.337	
3,000.0	3,000.0	3,002.0	2,996.9	10.5	10.5	72.63	45.1	144.2	151.2	130.1	21.06	7.179	
3,100.0	3,100.0	3,102.1	3,096.7	10.9	10.9	59.95	50.3	144.7	152.8	131.0	21.78	7.018	
3,200.0	3,200.0	3,202.1	3,196.5	11.2	11.3	59.01	55.5	145.2	153.7	131.2	22.49	6.832	
3,300.0	3,299.9	3,302.1	3,296.4	11.6	11.6	58.64	60.8	145.7	153.7	130.5	23.21	6.620	
3,400.0	3,399.7	3,402.1	3,396.2	12.0	12.0	58.83	66.0	146.2	152.7	128.8	23.93	6.383	
3,500.0	3,499.4	3,502.1	3,496.1	12.3	12.3	59.30	71.2	146.7	151.4	126.7	24.65	6.141	
3,600.0	3,599.2	3,602.1	3,595.9	12.7	12.7	59.78	76.4	147.2	150.0	124.7	25.37	5.913	
3,700.0	3,698.9	3,702.2	3,695.8	13.0	13.1	60.26	81.6	147.6	148.7	122.6	26.09	5.698	
3,800.0	3,798.7	3,802.2	3,795.6	13.4	13.4	60.76	86.8	148.1	147.3	120.5	26.82	5.495	
3,900.0	3,898.5	3,902.2	3,895.5	13.8	13.8	61.27	92.0	148.6	146.0	118.5	27.54	5.302	
4,000.0	3,998.2	4,002.2	3,995.3	14.1	14.2	61.78	97.2	149.1	144.7	116.5	28.26	5.120	
4,100.0	4,098.0	4,097.8	4,095.2	14.5	14.5	62.30	102.4	149.6	143.4	114.4	28.97	4.950	
4,200.0	4,197.7	4,202.2	4,195.0	14.8	14.9	62.84	107.6	150.1	142.1	112.4	29.71	4.783	
4,300.0	4,297.5	4,302.3	4,294.9	15.2	15.3	63.38	112.9	150.6	140.9	110.4	30.44	4.627	
4,400.0	4,397.2	4,402.3	4,394.7	15.6	15.6	63.93	118.1	151.0	139.6	108.4	31.17	4.479	
4,500.0	4,497.0	4,502.3	4,494.6	15.9	16.0	64.50	123.3	151.5	138.3	106.5	31.89	4.338	
4,600.0	4,596.8	4,602.3	4,594.4	16.3	16.3	65.07	128.5	152.0	137.1	104.5	32.62	4.203	
4,700.0	4,696.5	4,702.3	4,694.2	16.7	16.7	65.65	133.7	152.5	135.9	102.5	33.35	4.075	
4,800.0	4,796.3	4,802.3	4,794.1	17.0	17.1	66.25	138.9	153.0	134.7	100.6	34.08	3.952	
4,900.0	4,896.0	4,902.4	4,893.9	17.4	17.4	66.85	144.1	153.5	133.5	98.7	34.81	3.835	
5,000.0	4,995.8	5,002.4	4,993.8	17.8	17.8	67.47	149.3	154.0	132.3	96.8	35.54	3.723	
5,100.0	5,095.5	5,102.4	5,093.6	18.1	18.2	68.09	154.5	154.5	131.2	94.9	36.27	3.616	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #243H - 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
5,200.0	5,195.3	5,202.4	5,193.5	18.5	18.5	68.73	159.7	154.9	130.0	93.0	37.00	3.514	
5,300.0	5,295.0	5,302.4	5,293.3	18.9	18.9	69.38	165.0	155.4	128.9	91.2	37.73	3.416	
5,400.0	5,394.8	5,402.5	5,393.2	19.2	19.3	70.04	170.2	155.9	127.8	89.3	38.46	3.322	
5,500.0	5,494.6	5,502.5	5,493.0	19.6	19.6	70.71	175.4	156.4	126.7	87.5	39.19	3.232	
5,600.0	5,594.3	5,602.5	5,592.9	20.0	20.0	71.39	180.6	156.9	125.6	85.7	39.93	3.146	
5,700.0	5,694.1	5,697.5	5,692.7	20.3	20.3	72.09	185.8	157.4	124.6	83.9	40.64	3.065	
5,800.0	5,793.8	5,802.5	5,792.5	20.7	20.7	72.79	191.0	157.9	123.5	82.1	41.39	2.984	
5,900.0	5,893.6	5,902.5	5,892.4	21.1	21.1	73.51	196.2	158.3	122.5	80.4	42.13	2.908	
6,000.0	5,993.3	6,002.6	5,992.2	21.4	21.5	74.24	201.4	158.8	121.5	78.6	42.86	2.835	
6,100.0	6,093.1	6,102.6	6,092.1	21.8	21.8	74.99	206.6	159.3	120.5	76.9	43.59	2.764	
6,200.0	6,192.9	6,202.6	6,191.9	22.2	22.2	75.74	211.8	159.8	119.6	75.2	44.33	2.697	
6,300.0	6,292.6	6,302.6	6,291.8	22.5	22.5	76.51	217.1	160.3	118.6	73.5	45.06	2.632	
6,400.0	6,392.4	6,402.6	6,391.6	22.9	22.9	77.29	222.3	160.8	117.7	71.9	45.80	2.570	
6,500.0	6,492.1	6,502.6	6,491.5	23.3	23.3	78.08	227.5	161.3	116.8	70.3	46.53	2.510	
6,600.0	6,591.9	6,602.7	6,591.3	23.6	23.6	78.88	232.7	161.8	115.9	68.7	47.27	2.452	
6,700.0	6,691.6	6,702.7	6,691.2	24.0	24.0	79.69	237.9	162.2	115.1	67.1	48.00	2.397	
6,800.0	6,791.4	6,802.7	6,791.0	24.4	24.4	80.52	243.1	162.7	114.3	65.5	48.74	2.344	
6,900.0	6,891.1	6,902.7	6,890.9	24.7	24.7	81.36	248.3	163.2	113.4	64.0	49.48	2.293	
7,000.0	6,990.9	7,002.7	6,990.7	25.1	25.1	82.21	253.5	163.7	112.7	62.5	50.21	2.244	
7,020.0	7,010.8	7,017.2	7,010.6	25.2	25.2	82.38	254.6	163.8	112.5	62.2	50.34	2.235	
7,100.0	7,090.7	7,102.7	7,090.6	25.5	25.5	82.64	258.7	164.2	112.0	61.1	50.95	2.199	
7,200.0	7,190.6	7,197.2	7,190.4	25.8	25.8	81.77	263.9	164.7	111.7	60.1	51.65	2.163	
7,221.5	7,212.2	7,218.7	7,211.9	25.9	25.9	81.41	265.1	164.8	111.7	59.9	51.81	2.156 CC	
7,286.6	7,277.3	7,283.9	7,277.0	26.1	26.1	91.32	268.0	165.0	111.8	59.5	52.27	2.139	
7,300.0	7,290.6	7,297.3	7,290.4	26.2	26.2	91.08	268.5	165.1	111.8	59.5	52.37	2.135	
7,400.0	7,390.6	7,397.5	7,390.6	26.5	26.5	90.06	270.5	165.3	112.0	58.9	53.08	2.110	
7,500.0	7,490.6	7,502.4	7,490.6	26.9	26.9	90.01	270.6	165.3	112.0	58.2	53.80	2.082	
7,600.0	7,590.6	7,602.4	7,590.6	27.3	27.3	90.01	270.6	165.3	112.0	57.5	54.51	2.055	
7,700.0	7,690.6	7,702.4	7,690.6	27.6	27.6	90.01	270.6	165.3	112.0	56.8	55.22	2.028	
7,800.0	7,790.6	7,802.4	7,790.6	28.0	28.0	90.01	270.6	165.3	112.0	56.1	55.92	2.003	
7,900.0	7,890.6	7,902.4	7,890.6	28.3	28.3	90.01	270.6	165.3	112.0	55.4	56.63	1.978	
8,000.0	7,990.6	8,002.4	7,990.6	28.7	28.7	90.01	270.6	165.3	112.0	54.7	57.34	1.953	
8,100.0	8,090.6	8,102.4	8,090.6	29.0	29.0	90.01	270.6	165.3	112.0	54.0	58.05	1.930	
8,200.0	8,190.6	8,202.4	8,190.6	29.4	29.4	90.01	270.6	165.3	112.0	53.2	58.76	1.906	
8,300.0	8,290.6	8,302.4	8,290.6	29.7	29.7	90.01	270.6	165.3	112.0	52.5	59.47	1.884	
8,400.0	8,390.6	8,402.4	8,390.6	30.1	30.1	90.01	270.6	165.3	112.0	51.8	60.17	1.861	
8,500.0	8,490.6	8,502.4	8,490.6	30.4	30.5	90.01	270.6	165.3	112.0	51.1	60.88	1.840	
8,600.0	8,590.6	8,602.4	8,590.6	30.8	30.8	90.01	270.6	165.3	112.0	50.4	61.59	1.818	
8,700.0	8,690.6	8,702.4	8,690.6	31.2	31.2	90.01	270.6	165.3	112.0	49.7	62.30	1.798	
8,800.0	8,790.6	8,802.4	8,790.6	31.5	31.5	90.01	270.6	165.3	112.0	49.0	63.01	1.777	
8,900.0	8,890.6	8,902.4	8,890.6	31.9	31.9	90.01	270.6	165.3	112.0	48.3	63.72	1.758	
9,000.0	8,990.6	9,002.4	8,990.6	32.2	32.2	90.01	270.6	165.3	112.0	47.6	64.43	1.738	
9,100.0	9,090.6	9,102.4	9,090.6	32.6	32.6	90.01	270.6	165.3	112.0	46.9	65.14	1.719	
9,200.0	9,190.6	9,202.4	9,190.6	32.9	32.9	90.01	270.6	165.3	112.0	46.2	65.85	1.701	
9,300.0	9,290.6	9,302.4	9,290.6	33.3	33.3	90.01	270.6	165.3	112.0	45.4	66.56	1.683	
9,400.0	9,390.6	9,402.4	9,390.6	33.6	33.6	90.01	270.6	165.3	112.0	44.7	67.27	1.665	
9,500.0	9,490.6	9,502.4	9,490.6	34.0	34.0	90.01	270.6	165.3	112.0	44.0	67.99	1.647	
9,600.0	9,590.6	9,602.4	9,590.6	34.3	34.4	90.01	270.6	165.3	112.0	43.3	68.70	1.630	
9,700.0	9,690.6	9,702.4	9,690.6	34.7	34.7	90.01	270.6	165.3	112.0	42.6	69.41	1.614	
9,800.0	9,790.6	9,802.4	9,790.6	35.1	35.1	90.01	270.6	165.3	112.0	41.9	70.12	1.597	
9,900.0	9,890.6	9,902.4	9,890.6	35.4	35.4	90.01	270.6	165.3	112.0	41.2	70.83	1.581	
10,000.0	9,990.6	10,002.4	9,990.6	35.8	35.8	90.01	270.6	165.3	112.0	40.5	71.54	1.566	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #243H - 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
10,037.4	10,028.0	10,035.0	10,028.0	35.9	35.9	90.01	270.6	165.3	112.0	40.2	71.79	1.560	
10,050.0	10,040.6	10,047.6	10,040.6	35.9	35.9	-106.15	270.6	165.3	112.0	40.2	71.88	1.559	ES, SF
10,100.0	10,090.5	10,102.5	10,090.5	36.1	36.1	-107.66	270.6	165.3	113.0	40.8	72.22	1.565	
10,150.0	10,139.9	10,146.9	10,139.9	36.2	36.3	-110.98	270.6	165.3	115.6	43.0	72.52	1.593	
10,200.0	10,188.5	10,204.6	10,188.5	36.4	36.5	-115.71	270.6	165.3	120.4	47.5	72.85	1.653	
10,250.0	10,235.8	10,242.8	10,235.8	36.5	36.6	-121.24	270.6	165.3	128.4	55.3	73.09	1.757	
10,300.0	10,281.5	10,288.5	10,281.5	36.6	36.8	-126.93	270.6	165.3	140.4	67.1	73.35	1.914	
10,350.0	10,325.4	10,332.3	10,325.4	36.7	37.0	-132.22	270.6	165.3	156.9	83.4	73.60	2.133	
10,400.0	10,366.9	10,373.9	10,366.9	36.9	37.1	-136.78	270.6	165.3	178.2	104.4	73.83	2.414	
10,450.0	10,405.9	10,412.9	10,405.9	37.0	37.2	-140.44	270.6	165.3	204.0	130.0	74.04	2.755	
10,500.0	10,442.0	10,449.0	10,442.0	37.1	37.4	-143.18	270.6	165.3	234.1	159.9	74.24	3.153	
10,550.0	10,474.9	10,481.9	10,474.9	37.2	37.5	-144.98	270.6	165.3	268.0	193.6	74.42	3.602	
10,600.0	10,504.5	10,511.5	10,504.5	37.3	37.6	-145.86	270.6	165.3	305.4	230.8	74.58	4.095	
10,650.0	10,530.4	10,537.4	10,530.4	37.4	37.7	-145.73	270.6	165.3	345.7	271.0	74.71	4.627	
10,700.0	10,552.5	10,559.5	10,552.5	37.5	37.8	-144.40	270.6	165.3	388.6	313.7	74.82	5.193	
10,750.0	10,570.6	10,577.6	10,570.6	37.6	37.8	-141.42	270.6	165.3	433.5	358.6	74.91	5.787	
10,800.0	10,584.6	10,608.5	10,584.6	37.7	37.9	-135.92	270.6	165.3	480.2	405.1	75.04	6.399	
10,850.0	10,594.3	10,601.3	10,594.3	37.8	37.9	-126.12	270.6	165.3	528.1	453.0	75.02	7.039	
10,900.0	10,599.7	10,606.7	10,599.7	37.9	37.9	-108.94	270.6	165.3	576.8	501.7	75.05	7.686	
10,937.4	10,601.0	10,607.9	10,601.0	38.0	37.9	-90.00	270.6	165.3	613.5	538.5	75.05	8.174	
11,000.0	10,601.0	10,607.9	10,601.0	38.2	37.9	-90.00	270.6	165.3	675.2	600.1	75.05	8.996	
11,100.0	10,601.0	10,607.9	10,601.0	38.5	37.9	-90.00	270.6	165.3	773.4	698.4	75.06	10.305	
11,200.0	10,601.0	10,607.9	10,601.0	38.9	37.9	-90.00	270.6	165.3	871.5	796.5	75.06	11.611	
11,300.0	10,601.0	10,607.9	10,601.0	39.4	37.9	-90.00	270.6	165.3	969.4	894.3	75.07	12.913	
11,400.0	10,601.0	10,607.9	10,601.0	39.9	37.9	-90.00	270.6	165.3	1,067.0	991.9	75.08	14.211	
11,500.0	10,601.0	10,607.9	10,601.0	40.4	37.9	-90.00	270.6	165.3	1,164.2	1,089.1	75.09	15.504	
11,600.0	10,601.0	10,607.9	10,601.0	41.0	37.9	-90.00	270.6	165.3	1,261.1	1,186.0	75.10	16.792	
11,700.0	10,601.0	10,607.9	10,601.0	41.7	37.9	-90.00	270.6	165.3	1,357.7	1,282.6	75.12	18.074	
11,766.0	10,601.0	10,607.9	10,601.0	42.2	37.9	-90.00	270.6	165.3	1,421.1	1,346.0	75.13	18.916	
11,800.0	10,601.0	10,607.9	10,601.0	42.4	37.9	-90.00	270.6	165.3	1,453.9	1,378.7	75.13	19.350	
11,900.0	10,601.0	10,607.9	10,601.0	43.2	37.9	-90.00	270.6	165.3	1,550.4	1,475.2	75.15	20.630	
12,000.0	10,601.0	10,607.9	10,601.0	44.0	37.9	-90.00	270.6	165.3	1,647.3	1,572.1	75.17	21.913	
12,100.0	10,601.0	10,607.9	10,601.0	44.8	37.9	-90.00	270.6	165.3	1,744.5	1,669.3	75.19	23.201	
12,200.0	10,601.0	10,607.9	10,601.0	45.7	37.9	-90.00	270.6	165.3	1,842.1	1,766.9	75.21	24.491	
12,300.0	10,601.0	10,607.9	10,601.0	46.6	37.9	-90.00	270.6	165.3	1,939.9	1,864.6	75.24	25.784	
12,400.0	10,601.0	10,607.9	10,601.0	47.6	37.9	-90.00	270.6	165.3	2,037.9	1,962.6	75.26	27.078	
12,500.0	10,601.0	10,607.9	10,601.0	48.6	37.9	-90.00	270.6	165.3	2,136.1	2,060.8	75.28	28.374	
12,600.0	10,601.0	10,607.9	10,601.0	49.7	37.9	-90.00	270.6	165.3	2,234.4	2,159.1	75.31	29.671	
12,700.0	10,601.0	10,607.9	10,601.0	50.8	37.9	-90.00	270.6	165.3	2,332.9	2,257.6	75.33	30.968	
12,800.0	10,601.0	10,607.9	10,601.0	51.9	37.9	-90.00	270.6	165.3	2,431.6	2,356.2	75.36	32.266	
12,900.0	10,601.0	10,607.9	10,601.0	53.0	37.9	-90.00	270.6	165.3	2,530.3	2,454.9	75.39	33.564	
13,000.0	10,601.0	10,607.9	10,601.0	54.2	37.9	-90.00	270.6	165.3	2,629.1	2,553.7	75.41	34.862	
13,100.0	10,601.0	10,607.9	10,601.0	55.4	37.9	-90.00	270.6	165.3	2,728.0	2,652.6	75.44	36.160	
13,200.0	10,601.0	10,607.9	10,601.0	56.6	37.9	-90.00	270.6	165.3	2,827.0	2,751.5	75.47	37.457	
13,300.0	10,601.0	10,607.9	10,601.0	57.8	37.9	-90.00	270.6	165.3	2,926.1	2,850.6	75.50	38.754	
13,400.0	10,601.0	16,343.1	13,580.0	59.1	66.3	-173.66	-2,729.2	126.5	2,997.3	2,935.8	61.50	48.737	
13,500.0	10,601.0	16,443.1	13,580.0	60.3	67.4	-173.66	-2,829.2	127.3	2,997.3	2,934.6	62.73	47.780	
13,600.0	10,601.0	16,543.1	13,580.0	61.6	68.6	-173.66	-2,929.2	128.1	2,997.3	2,933.3	63.98	46.847	
13,700.0	10,601.0	16,643.1	13,580.0	62.9	69.8	-173.66	-3,029.2	128.9	2,997.3	2,932.1	65.24	45.940	
13,800.0	10,601.0	16,743.1	13,580.0	64.3	71.0	-173.66	-3,129.2	129.8	2,997.3	2,930.8	66.52	45.058	
13,900.0	10,601.0	16,843.1	13,580.0	65.6	72.2	-173.66	-3,229.2	130.6	2,997.3	2,929.5	67.81	44.201	
14,000.0	10,601.0	16,943.1	13,580.0	66.9	73.5	-173.66	-3,329.2	131.4	2,997.3	2,928.2	69.11	43.367	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #243H - 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
14,100.0	10,601.0	17,043.1	13,580.0	68.3	74.7	-173.66	-3,429.2	132.2	2,997.3	2,926.9	70.43	42.557	
14,200.0	10,601.0	17,143.1	13,580.0	69.7	76.0	-173.66	-3,529.2	133.0	2,997.3	2,925.6	71.76	41.771	
14,300.0	10,601.0	17,243.1	13,580.0	71.1	77.3	-173.66	-3,629.2	133.8	2,997.3	2,924.2	73.09	41.007	
14,400.0	10,601.0	17,343.1	13,580.0	72.5	78.6	-173.66	-3,729.2	134.6	2,997.3	2,922.9	74.44	40.265	
14,500.0	10,601.0	17,443.1	13,580.0	73.9	79.9	-173.66	-3,829.2	135.5	2,997.3	2,921.5	75.80	39.544	
14,600.0	10,601.0	17,543.1	13,580.0	75.3	81.2	-173.66	-3,929.2	136.3	2,997.3	2,920.1	77.16	38.844	
14,700.0	10,601.0	17,643.1	13,580.0	76.8	82.5	-173.66	-4,029.2	137.1	2,997.3	2,918.8	78.54	38.164	
14,800.0	10,601.0	17,743.1	13,580.0	78.2	83.9	-173.66	-4,129.2	137.9	2,997.3	2,917.4	79.92	37.504	
14,900.0	10,601.0	17,843.1	13,580.0	79.6	85.3	-173.66	-4,229.2	138.7	2,997.3	2,916.0	81.31	36.862	
15,000.0	10,601.0	17,943.1	13,580.0	81.1	86.6	-173.66	-4,329.2	139.5	2,997.3	2,914.6	82.71	36.239	
15,100.0	10,601.0	18,043.1	13,580.0	82.6	88.0	-173.66	-4,429.2	140.3	2,997.3	2,913.2	84.11	35.634	
15,200.0	10,601.0	18,143.1	13,580.0	84.0	89.4	-173.66	-4,529.2	141.2	2,997.3	2,911.8	85.53	35.046	
15,300.0	10,601.0	18,243.1	13,580.0	85.5	90.8	-173.66	-4,629.2	142.0	2,997.3	2,910.4	86.94	34.474	
15,400.0	10,601.0	18,343.1	13,580.0	87.0	92.2	-173.67	-4,729.2	142.8	2,997.3	2,908.9	88.37	33.918	
15,500.0	10,601.0	18,443.1	13,580.0	88.5	93.6	-173.67	-4,829.2	143.6	2,997.3	2,907.5	89.80	33.378	
15,600.0	10,601.0	18,543.1	13,580.0	90.0	95.0	-173.67	-4,929.2	144.4	2,997.3	2,906.1	91.23	32.853	
15,700.0	10,601.0	18,643.1	13,580.0	91.5	96.4	-173.67	-5,029.2	145.2	2,997.3	2,904.6	92.67	32.342	
15,800.0	10,601.0	18,743.1	13,580.0	93.0	97.9	-173.67	-5,129.2	146.0	2,997.3	2,903.2	94.12	31.845	
15,900.0	10,601.0	18,843.1	13,580.0	94.5	99.3	-173.67	-5,229.1	146.9	2,997.3	2,901.7	95.57	31.362	
16,000.0	10,601.0	18,943.1	13,580.0	96.0	100.8	-173.67	-5,329.1	147.7	2,997.3	2,900.3	97.03	30.891	
16,100.0	10,601.0	19,043.1	13,580.0	97.5	102.2	-173.67	-5,429.1	148.5	2,997.3	2,898.8	98.49	30.434	
16,200.0	10,601.0	19,143.1	13,580.0	99.1	103.7	-173.67	-5,529.1	149.3	2,997.3	2,897.3	99.95	29.988	
16,300.0	10,601.0	19,243.1	13,580.0	100.6	105.1	-173.67	-5,629.1	150.1	2,997.3	2,895.9	101.42	29.554	
16,400.0	10,601.0	19,343.1	13,580.0	102.1	106.6	-173.67	-5,729.1	150.9	2,997.3	2,894.4	102.89	29.131	
16,500.0	10,601.0	19,443.1	13,580.0	103.7	108.1	-173.67	-5,829.1	151.8	2,997.3	2,892.9	104.37	28.719	
16,600.0	10,601.0	19,543.1	13,580.0	105.2	109.6	-173.67	-5,929.1	152.6	2,997.3	2,891.4	105.85	28.317	
16,700.0	10,601.0	19,643.1	13,580.0	106.7	111.1	-173.67	-6,029.1	153.4	2,997.3	2,890.0	107.33	27.926	
16,800.0	10,601.0	19,743.1	13,580.0	108.3	112.6	-173.67	-6,129.1	154.2	2,997.3	2,888.5	108.82	27.545	
16,900.0	10,601.0	19,843.1	13,580.0	109.8	114.1	-173.67	-6,229.1	155.0	2,997.3	2,887.0	110.30	27.173	
17,000.0	10,601.0	19,943.1	13,580.0	111.4	115.6	-173.67	-6,329.1	155.8	2,997.3	2,885.5	111.80	26.810	
17,100.0	10,601.0	20,043.1	13,580.0	113.0	117.1	-173.67	-6,429.1	156.6	2,997.3	2,884.0	113.29	26.456	
17,200.0	10,601.0	20,143.1	13,580.0	114.5	118.6	-173.67	-6,529.1	157.5	2,997.3	2,882.5	114.79	26.111	
17,300.0	10,601.0	20,243.1	13,580.0	116.1	120.1	-173.67	-6,629.1	158.3	2,997.3	2,881.0	116.29	25.774	
17,400.0	10,601.0	20,343.1	13,580.0	117.6	121.6	-173.67	-6,729.1	159.1	2,997.3	2,879.5	117.79	25.445	
17,500.0	10,601.0	20,443.1	13,580.0	119.2	123.1	-173.67	-6,829.1	159.9	2,997.3	2,878.0	119.30	25.124	
17,600.0	10,601.0	20,543.1	13,580.0	120.8	124.6	-173.67	-6,929.1	160.7	2,997.3	2,876.5	120.81	24.810	
17,700.0	10,601.0	20,643.1	13,580.0	122.3	126.2	-173.67	-7,029.1	161.5	2,997.3	2,875.0	122.32	24.504	
17,800.0	10,601.0	20,743.1	13,580.0	123.9	127.7	-173.67	-7,129.1	162.3	2,997.3	2,873.4	123.83	24.204	
17,900.0	10,601.0	20,843.1	13,580.0	125.5	129.2	-173.67	-7,229.1	163.2	2,997.3	2,871.9	125.35	23.912	
18,000.0	10,601.0	20,943.1	13,580.0	127.1	130.8	-173.67	-7,329.1	164.0	2,997.3	2,870.4	126.87	23.626	
18,100.0	10,601.0	21,043.1	13,580.0	128.6	132.3	-173.67	-7,429.1	164.8	2,997.3	2,868.9	128.38	23.346	
18,200.0	10,601.0	21,143.1	13,580.0	130.2	133.8	-173.67	-7,529.1	165.6	2,997.3	2,867.4	129.91	23.073	
18,300.0	10,601.0	21,243.1	13,580.0	131.8	135.4	-173.67	-7,629.1	166.4	2,997.3	2,865.8	131.43	22.805	
18,400.0	10,601.0	21,343.1	13,580.0	133.4	136.9	-173.67	-7,729.1	167.2	2,997.3	2,864.3	132.95	22.544	
18,500.0	10,601.0	21,443.1	13,580.0	135.0	138.5	-173.67	-7,829.1	168.1	2,997.3	2,862.8	134.48	22.288	
18,600.0	10,601.0	21,543.1	13,580.0	136.6	140.0	-173.67	-7,929.1	168.9	2,997.3	2,861.3	136.01	22.037	
18,700.0	10,601.0	21,643.1	13,580.0	138.1	141.6	-173.67	-8,029.1	169.7	2,997.3	2,859.7	137.54	21.792	
18,800.0	10,601.0	21,743.1	13,580.0	139.7	143.1	-173.67	-8,129.1	170.5	2,997.3	2,858.2	139.07	21.552	
18,900.0	10,601.0	21,843.1	13,580.0	141.3	144.7	-173.67	-8,229.0	171.3	2,997.3	2,856.7	140.60	21.317	
19,000.0	10,601.0	21,943.1	13,580.0	142.9	146.2	-173.67	-8,329.0	172.1	2,997.3	2,855.1	142.14	21.087	
19,100.0	10,601.0	22,043.1	13,580.0	144.5	147.8	-173.67	-8,429.0	172.9	2,997.3	2,853.6	143.67	20.862	
19,200.0	10,601.0	22,143.1	13,580.0	146.1	149.4	-173.67	-8,529.0	173.8	2,997.3	2,852.1	145.21	20.641	

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 #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Voni - Voni Fed Com #243H - Wellbore #1 - BLM Plan #1

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 usft

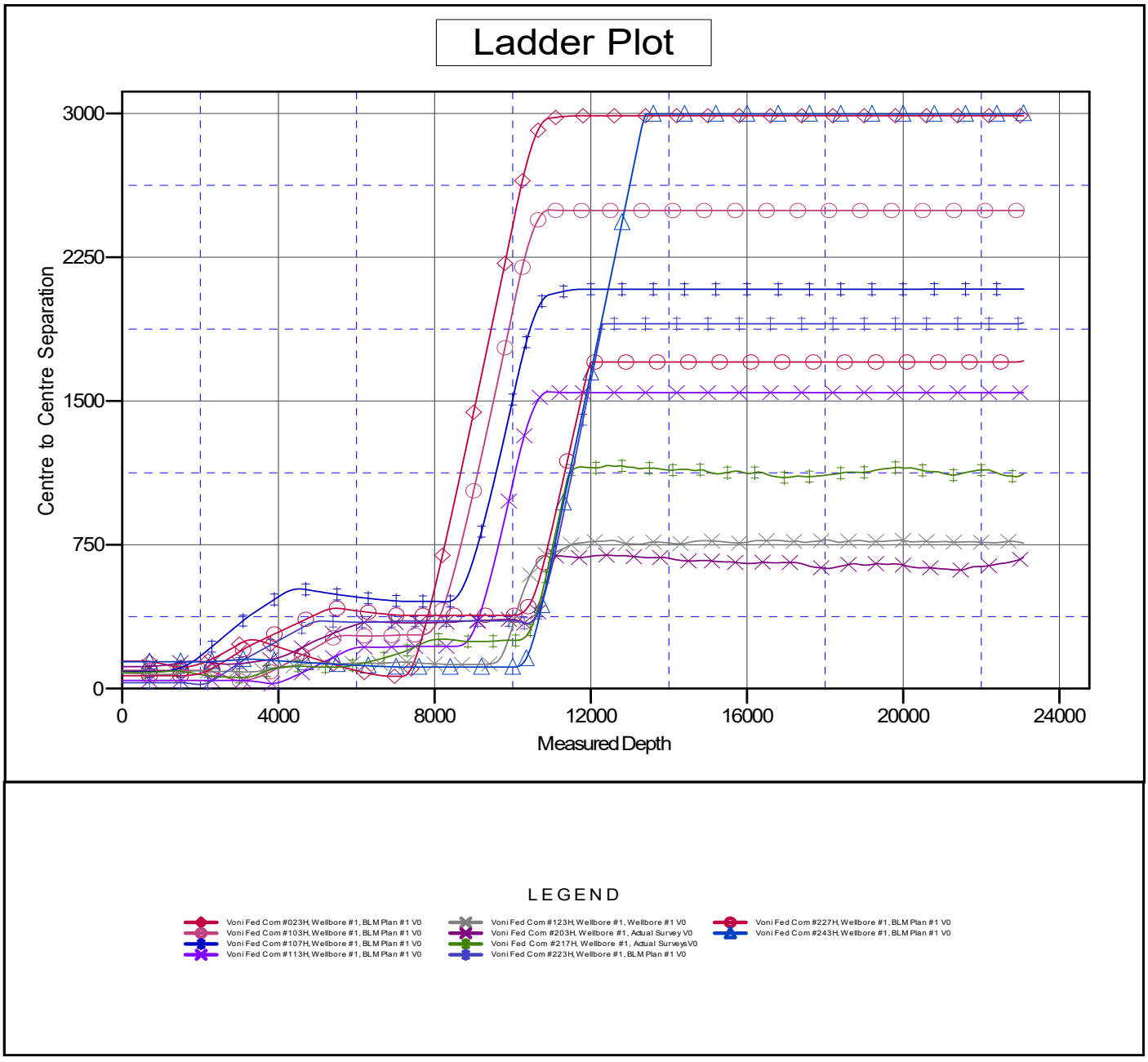
Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,300.0	10,601.0	22,243.1	13,580.0	147.7	150.9	-173.67	-8,629.0	174.6	2,997.3	2,850.5	146.75	20.424	
19,400.0	10,601.0	22,343.1	13,580.0	149.3	152.5	-173.67	-8,729.0	175.4	2,997.3	2,849.0	148.29	20.212	
19,500.0	10,601.0	22,443.1	13,580.0	150.9	154.1	-173.67	-8,829.0	176.2	2,997.3	2,847.4	149.83	20.004	
19,600.0	10,601.0	22,543.1	13,580.0	152.5	155.6	-173.67	-8,929.0	177.0	2,997.3	2,845.9	151.37	19.800	
19,700.0	10,601.0	22,643.1	13,580.0	154.1	157.2	-173.67	-9,029.0	177.8	2,997.3	2,844.3	152.92	19.600	
19,800.0	10,601.0	22,743.1	13,580.0	155.7	158.8	-173.67	-9,129.0	178.6	2,997.3	2,842.8	154.46	19.404	
19,900.0	10,601.0	22,843.1	13,580.0	157.3	160.4	-173.67	-9,229.0	179.5	2,997.3	2,841.2	156.01	19.212	
20,000.0	10,601.0	22,943.1	13,580.0	158.9	161.9	-173.67	-9,329.0	180.3	2,997.3	2,839.7	157.56	19.023	
20,100.0	10,601.0	23,043.1	13,580.0	160.5	163.5	-173.67	-9,429.0	181.1	2,997.3	2,838.2	159.10	18.838	
20,200.0	10,601.0	23,143.1	13,580.0	162.1	165.1	-173.67	-9,529.0	181.9	2,997.3	2,836.6	160.65	18.657	
20,300.0	10,601.0	23,243.1	13,580.0	163.7	166.7	-173.67	-9,629.0	182.7	2,997.3	2,835.0	162.20	18.478	
20,400.0	10,601.0	23,343.1	13,580.0	165.3	168.3	-173.67	-9,729.0	183.5	2,997.3	2,833.5	163.75	18.303	
20,500.0	10,601.0	23,443.1	13,580.0	167.0	169.8	-173.67	-9,829.0	184.3	2,997.3	2,831.9	165.31	18.131	
20,600.0	10,601.0	23,543.1	13,580.0	168.6	171.4	-173.67	-9,929.0	185.2	2,997.2	2,830.4	166.86	17.963	
20,700.0	10,601.0	23,643.1	13,580.0	170.2	173.0	-173.67	-10,029.0	186.0	2,997.2	2,828.8	168.41	17.797	
20,800.0	10,601.0	23,743.1	13,580.0	171.8	174.6	-173.67	-10,129.0	186.8	2,997.2	2,827.3	169.97	17.634	
20,900.0	10,601.0	23,843.1	13,580.0	173.4	176.2	-173.67	-10,229.0	187.6	2,997.2	2,825.7	171.52	17.474	
21,000.0	10,601.0	23,943.1	13,580.0	175.0	177.8	-173.67	-10,329.0	188.4	2,997.2	2,824.2	173.08	17.317	
21,100.0	10,601.0	24,043.1	13,580.0	176.6	179.4	-173.68	-10,429.0	189.2	2,997.2	2,822.6	174.64	17.163	
21,200.0	10,601.0	24,143.1	13,580.0	178.2	181.0	-173.68	-10,529.0	190.1	2,997.2	2,821.0	176.20	17.011	
21,300.0	10,601.0	24,243.1	13,580.0	179.9	182.6	-173.68	-10,629.0	190.9	2,997.2	2,819.5	177.76	16.862	
21,400.0	10,601.0	24,343.1	13,580.0	181.5	184.2	-173.68	-10,729.0	191.7	2,997.2	2,817.9	179.31	16.715	
21,500.0	10,601.0	24,443.1	13,580.0	183.1	185.7	-173.68	-10,829.0	192.5	2,997.2	2,816.4	180.88	16.571	
21,600.0	10,601.0	24,543.1	13,580.0	184.7	187.3	-173.68	-10,929.0	193.3	2,997.2	2,814.8	182.44	16.429	
21,700.0	10,601.0	24,643.1	13,580.0	186.3	188.9	-173.68	-11,029.0	194.1	2,997.2	2,813.2	184.00	16.290	
21,800.0	10,601.0	24,743.1	13,580.0	187.9	190.5	-173.68	-11,129.0	194.9	2,997.2	2,811.7	185.56	16.152	
21,900.0	10,601.0	24,843.1	13,580.0	189.6	192.1	-173.68	-11,228.9	195.8	2,997.2	2,810.1	187.12	16.017	
22,000.0	10,601.0	24,943.1	13,580.0	191.2	193.7	-173.68	-11,328.9	196.6	2,997.2	2,808.5	188.69	15.885	
22,100.0	10,601.0	25,043.1	13,580.0	192.8	195.3	-173.68	-11,428.9	197.4	2,997.2	2,807.0	190.25	15.754	
22,200.0	10,601.0	25,143.1	13,580.0	194.4	196.9	-173.68	-11,528.9	198.2	2,997.2	2,805.4	191.82	15.626	
22,300.0	10,601.0	25,243.1	13,580.0	196.1	198.5	-173.68	-11,628.9	199.0	2,997.2	2,803.9	193.38	15.499	
22,400.0	10,601.0	25,343.1	13,580.0	197.7	200.1	-173.68	-11,728.9	199.8	2,997.2	2,802.3	194.95	15.375	
22,500.0	10,601.0	25,443.1	13,580.0	199.3	201.8	-173.68	-11,828.9	200.6	2,997.2	2,800.7	196.51	15.252	
22,600.0	10,601.0	25,543.1	13,580.0	200.9	203.4	-173.68	-11,928.9	201.5	2,997.2	2,799.1	198.08	15.131	
22,700.0	10,601.0	25,643.1	13,580.0	202.5	205.0	-173.68	-12,028.9	202.3	2,997.2	2,797.6	199.65	15.012	
22,800.0	10,601.0	25,743.1	13,580.0	204.2	206.6	-173.68	-12,128.9	203.1	2,997.2	2,796.0	201.22	14.895	
22,900.0	10,601.0	25,843.1	13,580.0	205.8	208.2	-173.68	-12,228.9	203.9	2,997.2	2,794.4	202.79	14.780	
22,946.6	10,601.0	25,889.7	13,580.0	206.5	208.9	-173.68	-12,275.5	204.3	2,997.2	2,793.7	203.52	14.727	
23,000.0	10,601.0	25,886.0	13,580.0	207.4	208.9	-173.68	-12,271.9	204.3	2,997.8	2,794.1	203.67	14.719	
23,083.3	10,601.0	25,886.0	13,580.0	208.6	208.9	-173.68	-12,271.9	204.3	3,000.5	2,796.9	203.65	14.734	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to KB @ 3222.5usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Voni Fed Com #133H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.29°



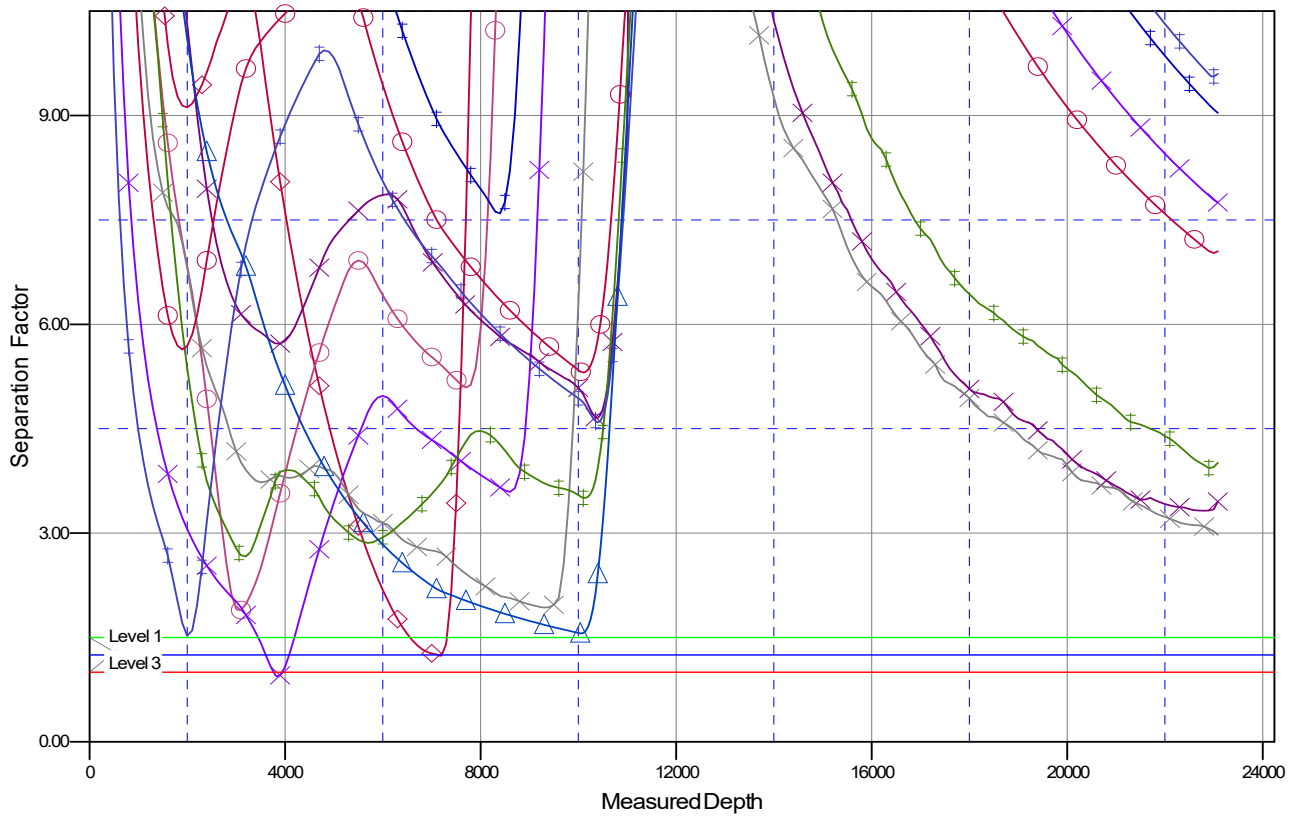
Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #133H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3222.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3222.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to KB @ 3222.5usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Voni Fed Com #133H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.29°

Separation Factor Plot



LEGEND

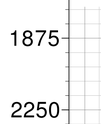
Voni Fed Com #023H, Wellbore #1, BLM Plan #1 V0
Voni Fed Com #103H, Wellbore #1, BLM Plan #1 V0
Voni Fed Com #107H, Wellbore #1, BLM Plan #1 V0
Voni Fed Com #113H, Wellbore #1, BLM Plan #1 V0
Voni Fed Com #123H, Wellbore #1, Wellbore #1 V0
Voni Fed Com #203H, Wellbore #1, Actual Survey V0
Voni Fed Com #217H, Wellbore #1, Actual Surveys V0
Voni Fed Com #223H, Wellbore #1, BLM Plan #1 V0
Voni Fed Com #227H, Wellbore #1, BLM Plan #1 V0
Voni Fed Com #243H, Wellbore #1, BLM Plan #1 V0

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

Company: Matador Production Company
Well: Voni Fed Com #133H
County: Eddy County, New Mexico
Wellbore: Wellbore #1
Plan: BLM Plan #2
Date: 2/24/2021

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 6.34°
To convert a Magnetic Direction to a True Direction, Add 6.64° East
To convert a True Direction to a Grid Direction, Subtract 0.29°



Azimuths to Grid North
True North: -0.29°
Magnetic North: 6.34°

Magnetic Field
Strength: 47427.3snT
Dip Angle: 59.81°
Date: 2/24/2021
Model: IGRF2015

SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
0.0	23082.8	BLM Plan #2 (Wellbore #1)	MWD

WELL DETAILS: Voni Fed Com #133H

GL @ 3194.0 KB @ 3222.5usft

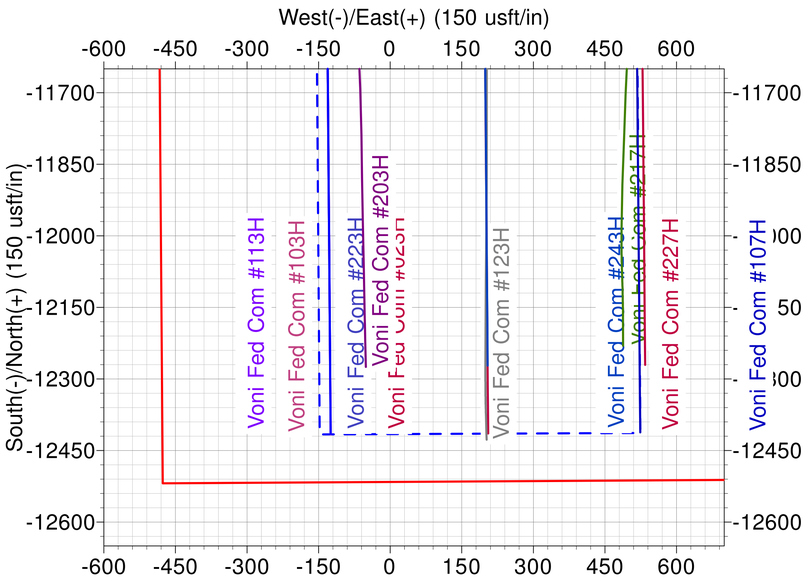
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.0	0.0	376699.44	671179.72	32° 2' 4.049 N	103° 46' 51.342 W	

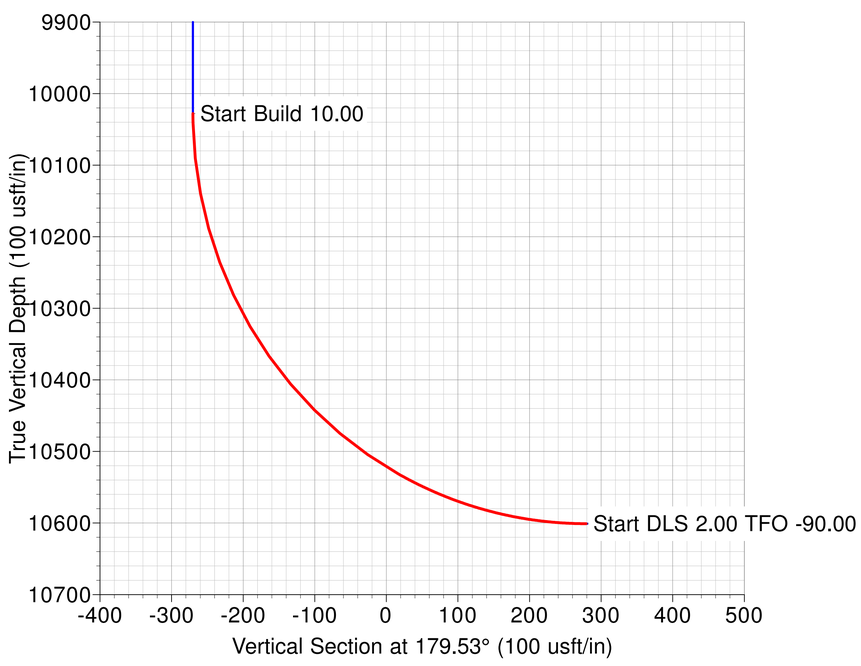
DESIGN TARGET DETAILS

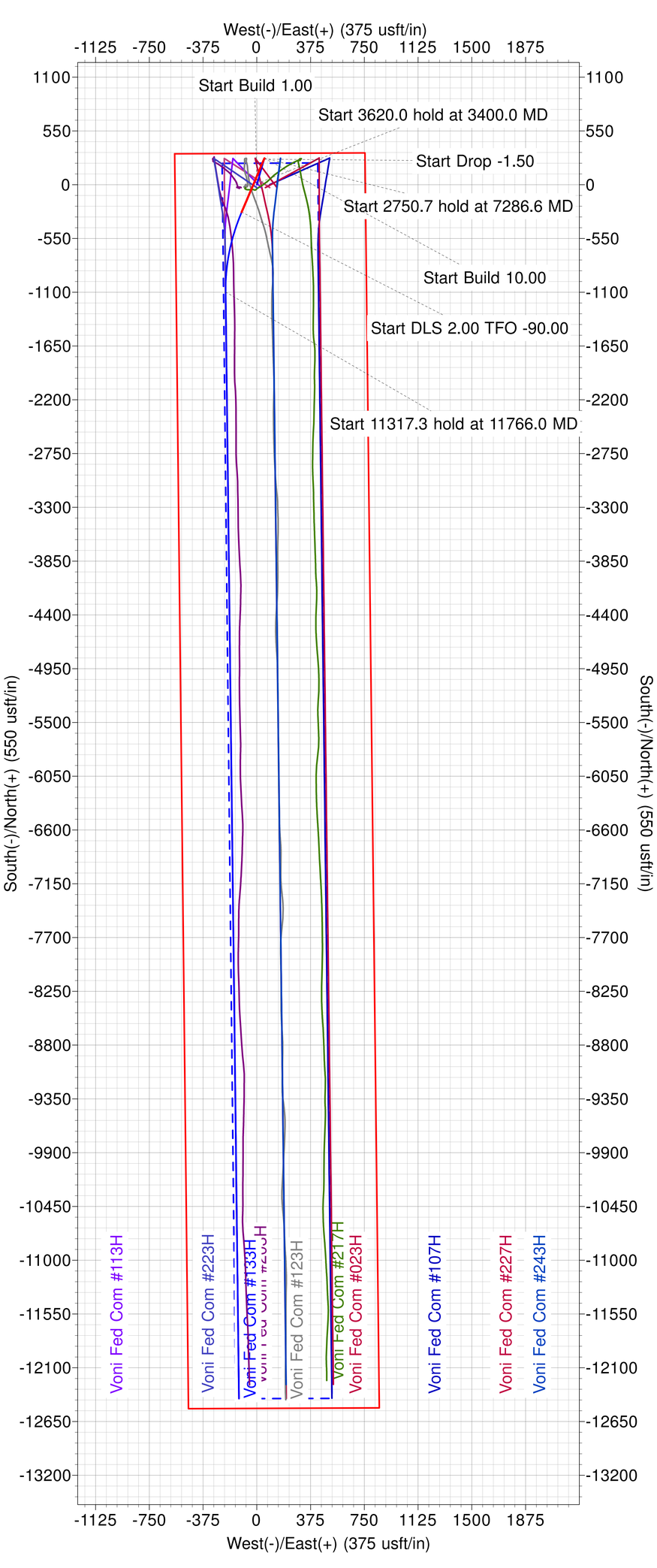
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
VP - Voni Fed Com #133H	10028.0	270.6	53.3	376970.00	671233.00	32° 2' 6.724 N	103° 46' 50.707 W
BHL - Voni Fed Com #133H	10601.0	-12414.9	-124.6	364283.51	671055.10	32° 0' 1.184 N	103° 46' 53.526 W

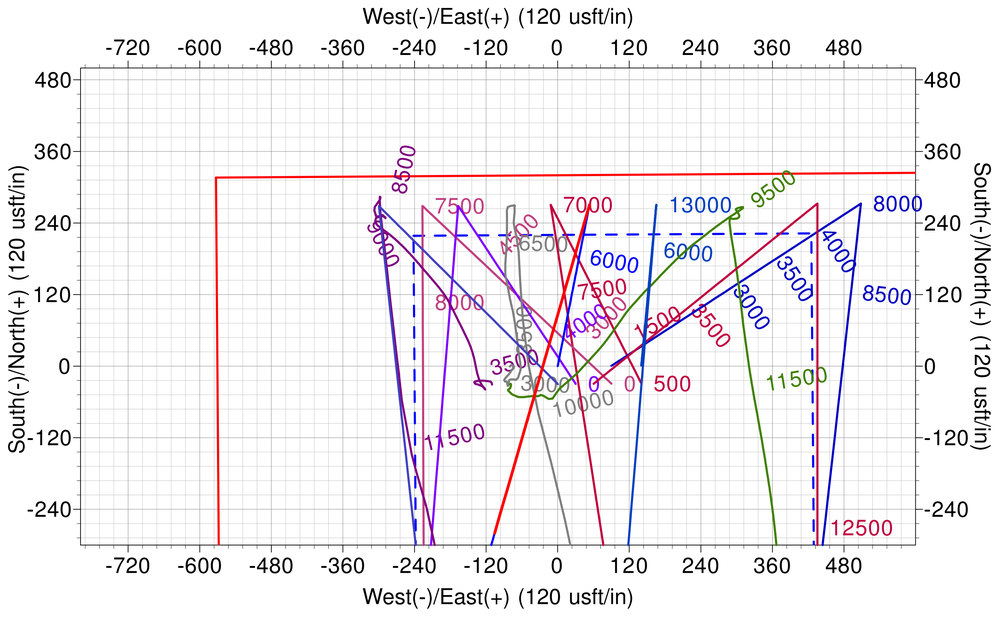
SECTION DETIALS

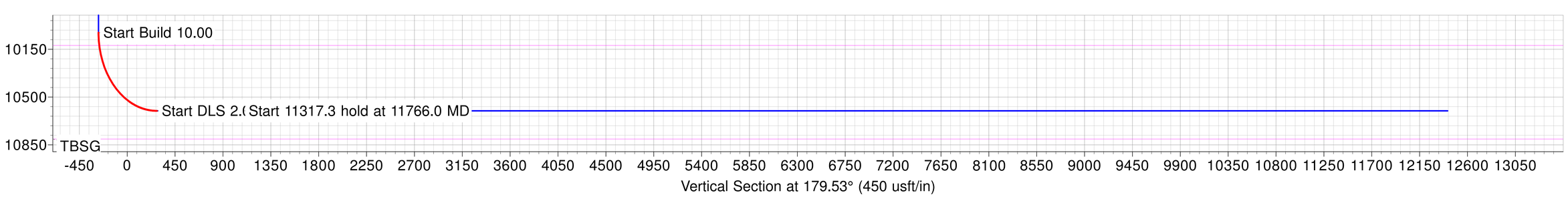
MD	Inc	Azi	TVD	+N/-S	+E/-W	DIeg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	Start Build 1.00
3400.0	4.00	11.14	3399.7	13.7	2.7	1.00	11.14	-13.7	Start 3620.0 hold at 3400.0 MD
7020.0	4.00	11.14	7010.8	261.5	51.5	0.00	0.00	-261.0	Start Drop -1.50
7286.6	0.00	0.00	7277.3	270.6	53.3	1.50	180.00	-270.1	Start 2750.7 hold at 7286.6 MD
10037.4	0.00	0.00	10028.0	270.6	53.3	0.00	0.00	-270.1	Start Build 10.00
10937.4	90.00	196.10	10601.0	-279.9	-105.6	10.00	196.10	279.0	Start DLS 2.00 TFO -90.00
11766.0	90.00	179.53	10601.0	-1098.0	-217.9	2.00	-90.00	1096.1	Start 11317.3 hold at 11766.0 MD
23083.3	90.00	179.53	10601.0	-12414.9	-124.6	0.00	0.00	12413.5	TD at 23083.3











Matador Production Company

Rustler Breaks
Voni
Voni Fed Com #133H

Wellbore #1

Plan: BLM Plan #2

Standard Planning Report

24 February, 2021

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Voni Fed Com #133H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3222.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3222.5usft
Site:	Voni	**North Reference:**	Grid
Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #2		

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 #133H

Well Position	**+N/-S**	47.7 usft	**Northing:**	376,699.43 usft	**Latitude:**	32° 2' 4.049 N
	+E/-W	2,881.3 usft	**Easting:**	671,179.71 usft	**Longitude:**	103° 46' 51.342 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,194.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/24/2021	6.64	59.81	47,427.28792368

Design BLM Plan #2

Audit Notes:

Version:	1	**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.53

Plan Survey Tool Program **Date** 2/24/2021

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	23,082.8	BLM Plan #2 (Wellbore #1)	MWD	
				OWSG MWD - Standard	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,400.0	4.00	11.14	3,399.7	13.7	2.7	1.00	1.00	0.00	11.14	
7,020.0	4.00	11.14	7,010.8	261.5	51.5	0.00	0.00	0.00	0.00	
7,286.6	0.00	0.00	7,277.3	270.6	53.3	1.50	-1.50	0.00	180.00	
10,037.4	0.00	0.00	10,028.0	270.6	53.3	0.00	0.00	0.00	0.00	VP - Voni Fed Com #1
10,937.4	90.00	196.10	10,601.0	-279.9	-105.6	10.00	10.00	0.00	196.10	
11,766.0	90.00	179.53	10,601.0	-1,098.0	-217.9	2.00	0.00	-2.00	-90.00	
23,083.3	90.00	179.53	10,601.0	-12,414.9	-124.6	0.00	0.00	0.00	0.00	BHL - Voni Fed Com 1

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Voni Fed Com #133H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3222.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3222.5usft
Site:	Voni	**North Reference:**	Grid
Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #2		

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
856.0	0.00	0.00	856.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,563.0	0.00	0.00	1,563.0	0.0	0.0	0.0	0.00	0.00	0.00
Salado (Top Salt)									
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 1.00									
3,100.0	1.00	11.14	3,100.0	0.9	0.2	-0.9	1.00	1.00	0.00
3,200.0	2.00	11.14	3,200.0	3.4	0.7	-3.4	1.00	1.00	0.00
3,300.0	3.00	11.14	3,299.9	7.7	1.5	-7.7	1.00	1.00	0.00
3,400.0	4.00	11.14	3,399.7	13.7	2.7	-13.7	1.00	1.00	0.00
Start 3620.0 hold at 3400.0 MD									
3,500.0	4.00	11.14	3,499.4	20.5	4.0	-20.5	0.00	0.00	0.00
3,600.0	4.00	11.14	3,599.2	27.4	5.4	-27.3	0.00	0.00	0.00
3,700.0	4.00	11.14	3,698.9	34.2	6.7	-34.2	0.00	0.00	0.00
3,800.0	4.00	11.14	3,798.7	41.1	8.1	-41.0	0.00	0.00	0.00
3,900.0	4.00	11.14	3,898.5	47.9	9.4	-47.8	0.00	0.00	0.00
4,000.0	4.00	11.14	3,998.2	54.8	10.8	-54.7	0.00	0.00	0.00
4,017.8	4.00	11.14	4,016.0	56.0	11.0	-55.9	0.00	0.00	0.00
Base Salt									
4,045.9	4.00	11.14	4,044.0	57.9	11.4	-57.8	0.00	0.00	0.00
Bell Canyon									
4,100.0	4.00	11.14	4,098.0	61.6	12.1	-61.5	0.00	0.00	0.00
4,200.0	4.00	11.14	4,197.7	68.4	13.5	-68.3	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Voni Fed Com #133H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3222.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3222.5usft
Site:	Voni	**North Reference:**	Grid
Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,300.0	4.00	11.14	4,297.5	75.3	14.8	-75.2	0.00	0.00	0.00
4,400.0	4.00	11.14	4,397.2	82.1	16.2	-82.0	0.00	0.00	0.00
4,500.0	4.00	11.14	4,497.0	89.0	17.5	-88.8	0.00	0.00	0.00
4,600.0	4.00	11.14	4,596.8	95.8	18.9	-95.7	0.00	0.00	0.00
4,700.0	4.00	11.14	4,696.5	102.7	20.2	-102.5	0.00	0.00	0.00
4,800.0	4.00	11.14	4,796.3	109.5	21.6	-109.3	0.00	0.00	0.00
4,900.0	4.00	11.14	4,896.0	116.4	22.9	-116.2	0.00	0.00	0.00
5,000.0	4.00	11.14	4,995.8	123.2	24.3	-123.0	0.00	0.00	0.00
5,100.0	4.00	11.14	5,095.5	130.0	25.6	-129.8	0.00	0.00	0.00
5,151.6	4.00	11.14	5,147.0	133.6	26.3	-133.4	0.00	0.00	0.00
Cherry Canyon									
5,200.0	4.00	11.14	5,195.3	136.9	27.0	-136.7	0.00	0.00	0.00
5,300.0	4.00	11.14	5,295.0	143.7	28.3	-143.5	0.00	0.00	0.00
5,400.0	4.00	11.14	5,394.8	150.6	29.7	-150.3	0.00	0.00	0.00
5,500.0	4.00	11.14	5,494.6	157.4	31.0	-157.2	0.00	0.00	0.00
5,600.0	4.00	11.14	5,594.3	164.3	32.3	-164.0	0.00	0.00	0.00
5,700.0	4.00	11.14	5,694.1	171.1	33.7	-170.8	0.00	0.00	0.00
5,800.0	4.00	11.14	5,793.8	178.0	35.0	-177.7	0.00	0.00	0.00
5,900.0	4.00	11.14	5,893.6	184.8	36.4	-184.5	0.00	0.00	0.00
6,000.0	4.00	11.14	5,993.3	191.6	37.7	-191.3	0.00	0.00	0.00
6,100.0	4.00	11.14	6,093.1	198.5	39.1	-198.2	0.00	0.00	0.00
6,200.0	4.00	11.14	6,192.9	205.3	40.4	-205.0	0.00	0.00	0.00
6,297.4	4.00	11.14	6,290.0	212.0	41.7	-211.6	0.00	0.00	0.00
Brushy Canyon									
6,300.0	4.00	11.14	6,292.6	212.2	41.8	-211.8	0.00	0.00	0.00
6,400.0	4.00	11.14	6,392.4	219.0	43.1	-218.7	0.00	0.00	0.00
6,500.0	4.00	11.14	6,492.1	225.9	44.5	-225.5	0.00	0.00	0.00
6,600.0	4.00	11.14	6,591.9	232.7	45.8	-232.3	0.00	0.00	0.00
6,700.0	4.00	11.14	6,691.6	239.6	47.2	-239.2	0.00	0.00	0.00
6,800.0	4.00	11.14	6,791.4	246.4	48.5	-246.0	0.00	0.00	0.00
6,900.0	4.00	11.14	6,891.1	253.2	49.9	-252.8	0.00	0.00	0.00
7,000.0	4.00	11.14	6,990.9	260.1	51.2	-259.7	0.00	0.00	0.00
7,020.0	4.00	11.14	7,010.8	261.5	51.5	-261.0	0.00	0.00	0.00
Start Drop -1.50									
7,100.0	2.80	11.14	7,090.7	266.1	52.4	-265.7	1.50	-1.50	0.00
7,200.0	1.30	11.14	7,190.6	269.6	53.1	-269.2	1.50	-1.50	0.00
7,286.6	0.00	0.00	7,277.3	270.6	53.3	-270.1	1.50	-1.50	0.00
Start 2750.7 hold at 7286.6 MD									
7,300.0	0.00	0.00	7,290.6	270.6	53.3	-270.1	0.00	0.00	0.00
7,380.4	0.00	0.00	7,371.0	270.6	53.3	-270.1	0.00	0.00	0.00
L. Brushy Canyon									
7,400.0	0.00	0.00	7,390.6	270.6	53.3	-270.1	0.00	0.00	0.00
7,500.0	0.00	0.00	7,490.6	270.6	53.3	-270.1	0.00	0.00	0.00
7,600.0	0.00	0.00	7,590.6	270.6	53.3	-270.1	0.00	0.00	0.00
7,700.0	0.00	0.00	7,690.6	270.6	53.3	-270.1	0.00	0.00	0.00
7,800.0	0.00	0.00	7,790.6	270.6	53.3	-270.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,890.6	270.6	53.3	-270.1	0.00	0.00	0.00
7,939.4	0.00	0.00	7,930.0	270.6	53.3	-270.1	0.00	0.00	0.00
BSGL									
8,000.0	0.00	0.00	7,990.6	270.6	53.3	-270.1	0.00	0.00	0.00
8,089.4	0.00	0.00	8,080.0	270.6	53.3	-270.1	0.00	0.00	0.00
Avalon-SS									
8,100.0	0.00	0.00	8,090.6	270.6	53.3	-270.1	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Voni Fed Com #133H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3222.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3222.5usft
Site:	Voni	**North Reference:**	Grid
Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,200.0	0.00	0.00	8,190.6	270.6	53.3	-270.1	0.00	0.00	0.00
8,300.0	0.00	0.00	8,290.6	270.6	53.3	-270.1	0.00	0.00	0.00
8,400.0	0.00	0.00	8,390.6	270.6	53.3	-270.1	0.00	0.00	0.00
8,500.0	0.00	0.00	8,490.6	270.6	53.3	-270.1	0.00	0.00	0.00
8,600.0	0.00	0.00	8,590.6	270.6	53.3	-270.1	0.00	0.00	0.00
8,700.0	0.00	0.00	8,690.6	270.6	53.3	-270.1	0.00	0.00	0.00
8,800.0	0.00	0.00	8,790.6	270.6	53.3	-270.1	0.00	0.00	0.00
8,900.0	0.00	0.00	8,890.6	270.6	53.3	-270.1	0.00	0.00	0.00
8,925.4	0.00	0.00	8,916.0	270.6	53.3	-270.1	0.00	0.00	0.00
FBSG									
9,000.0	0.00	0.00	8,990.6	270.6	53.3	-270.1	0.00	0.00	0.00
9,100.0	0.00	0.00	9,090.6	270.6	53.3	-270.1	0.00	0.00	0.00
9,200.0	0.00	0.00	9,190.6	270.6	53.3	-270.1	0.00	0.00	0.00
9,300.0	0.00	0.00	9,290.6	270.6	53.3	-270.1	0.00	0.00	0.00
9,363.4	0.00	0.00	9,354.0	270.6	53.3	-270.1	0.00	0.00	0.00
SBSC									
9,400.0	0.00	0.00	9,390.6	270.6	53.3	-270.1	0.00	0.00	0.00
9,500.0	0.00	0.00	9,490.6	270.6	53.3	-270.1	0.00	0.00	0.00
9,600.0	0.00	0.00	9,590.6	270.6	53.3	-270.1	0.00	0.00	0.00
9,602.4	0.00	0.00	9,593.0	270.6	53.3	-270.1	0.00	0.00	0.00
SBSG									
9,700.0	0.00	0.00	9,690.6	270.6	53.3	-270.1	0.00	0.00	0.00
9,800.0	0.00	0.00	9,790.6	270.6	53.3	-270.1	0.00	0.00	0.00
9,900.0	0.00	0.00	9,890.6	270.6	53.3	-270.1	0.00	0.00	0.00
10,000.0	0.00	0.00	9,990.6	270.6	53.3	-270.1	0.00	0.00	0.00
10,037.4	0.00	0.00	10,028.0	270.6	53.3	-270.1	0.00	0.00	0.00
Start Build 10.00 - VP - Voni Fed Com #133H									
10,100.0	6.26	196.10	10,090.5	267.3	52.3	-266.9	10.00	10.00	0.00
10,131.8	9.44	196.10	10,122.0	263.1	51.1	-262.7	10.00	10.00	0.00
TBSC									
10,200.0	16.26	196.10	10,188.5	248.6	46.9	-248.2	10.00	10.00	0.00
10,300.0	26.26	196.10	10,281.5	213.8	36.9	-213.4	10.00	10.00	0.00
10,400.0	36.26	196.10	10,366.9	164.0	22.5	-163.8	10.00	10.00	0.00
10,500.0	46.26	196.10	10,442.0	100.7	4.2	-100.6	10.00	10.00	0.00
10,600.0	56.26	196.10	10,504.5	25.8	-17.4	-26.0	10.00	10.00	0.00
10,700.0	66.26	196.10	10,552.5	-58.3	-41.6	58.0	10.00	10.00	0.00
10,800.0	76.26	196.10	10,584.6	-149.2	-67.9	148.6	10.00	10.00	0.00
10,900.0	86.26	196.10	10,599.7	-244.0	-95.3	243.2	10.00	10.00	0.00
10,937.4	90.00	196.10	10,601.0	-279.9	-105.6	279.0	10.00	10.00	0.00
Start DLS 2.00 TFO -90.00									
11,000.0	90.00	194.85	10,601.0	-340.3	-122.3	339.3	2.00	0.00	-2.00
11,100.0	90.00	192.85	10,601.0	-437.4	-146.2	436.1	2.00	0.00	-2.00
11,200.0	90.00	190.85	10,601.0	-535.2	-166.8	533.8	2.00	0.00	-2.00
11,300.0	90.00	188.85	10,601.0	-633.7	-183.9	632.2	2.00	0.00	-2.00
11,400.0	90.00	186.85	10,601.0	-732.8	-197.5	731.2	2.00	0.00	-2.00
11,500.0	90.00	184.85	10,601.0	-832.3	-207.7	830.6	2.00	0.00	-2.00
11,600.0	90.00	182.85	10,601.0	-932.1	-214.4	930.3	2.00	0.00	-2.00
11,700.0	90.00	180.85	10,601.0	-1,032.0	-217.7	1,030.2	2.00	0.00	-2.00
11,766.0	90.00	179.53	10,601.0	-1,098.0	-217.9	1,096.1	2.00	0.00	-2.00
Start 11317.3 hold at 11766.0 MD									
11,800.0	90.00	179.53	10,601.0	-1,132.0	-217.6	1,130.2	0.00	0.00	0.00
11,900.0	90.00	179.53	10,601.0	-1,232.0	-216.8	1,230.2	0.00	0.00	0.00
12,000.0	90.00	179.53	10,601.0	-1,332.0	-215.9	1,330.2	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Voni Fed Com #133H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3222.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3222.5usft
Site:	Voni	**North Reference:**	Grid
Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,100.0	90.00	179.53	10,601.0	-1,432.0	-215.1	1,430.2	0.00	0.00	0.00
12,200.0	90.00	179.53	10,601.0	-1,532.0	-214.3	1,530.2	0.00	0.00	0.00
12,300.0	90.00	179.53	10,601.0	-1,632.0	-213.5	1,630.2	0.00	0.00	0.00
12,400.0	90.00	179.53	10,601.0	-1,732.0	-212.6	1,730.2	0.00	0.00	0.00
12,500.0	90.00	179.53	10,601.0	-1,832.0	-211.8	1,830.2	0.00	0.00	0.00
12,600.0	90.00	179.53	10,601.0	-1,932.0	-211.0	1,930.2	0.00	0.00	0.00
12,700.0	90.00	179.53	10,601.0	-2,032.0	-210.2	2,030.2	0.00	0.00	0.00
12,800.0	90.00	179.53	10,601.0	-2,132.0	-209.3	2,130.2	0.00	0.00	0.00
12,900.0	90.00	179.53	10,601.0	-2,232.0	-208.5	2,230.2	0.00	0.00	0.00
13,000.0	90.00	179.53	10,601.0	-2,332.0	-207.7	2,330.2	0.00	0.00	0.00
13,100.0	90.00	179.53	10,601.0	-2,431.9	-206.9	2,430.2	0.00	0.00	0.00
13,200.0	90.00	179.53	10,601.0	-2,531.9	-206.1	2,530.2	0.00	0.00	0.00
13,300.0	90.00	179.53	10,601.0	-2,631.9	-205.2	2,630.2	0.00	0.00	0.00
13,400.0	90.00	179.53	10,601.0	-2,731.9	-204.4	2,730.2	0.00	0.00	0.00
13,500.0	90.00	179.53	10,601.0	-2,831.9	-203.6	2,830.2	0.00	0.00	0.00
13,600.0	90.00	179.53	10,601.0	-2,931.9	-202.8	2,930.2	0.00	0.00	0.00
13,700.0	90.00	179.53	10,601.0	-3,031.9	-201.9	3,030.2	0.00	0.00	0.00
13,800.0	90.00	179.53	10,601.0	-3,131.9	-201.1	3,130.2	0.00	0.00	0.00
13,900.0	90.00	179.53	10,601.0	-3,231.9	-200.3	3,230.2	0.00	0.00	0.00
14,000.0	90.00	179.53	10,601.0	-3,331.9	-199.5	3,330.2	0.00	0.00	0.00
14,100.0	90.00	179.53	10,601.0	-3,431.9	-198.6	3,430.2	0.00	0.00	0.00
14,200.0	90.00	179.53	10,601.0	-3,531.9	-197.8	3,530.2	0.00	0.00	0.00
14,300.0	90.00	179.53	10,601.0	-3,631.9	-197.0	3,630.2	0.00	0.00	0.00
14,400.0	90.00	179.53	10,601.0	-3,731.9	-196.2	3,730.2	0.00	0.00	0.00
14,500.0	90.00	179.53	10,601.0	-3,831.9	-195.3	3,830.2	0.00	0.00	0.00
14,600.0	90.00	179.53	10,601.0	-3,931.9	-194.5	3,930.2	0.00	0.00	0.00
14,700.0	90.00	179.53	10,601.0	-4,031.9	-193.7	4,030.2	0.00	0.00	0.00
14,800.0	90.00	179.53	10,601.0	-4,131.9	-192.9	4,130.2	0.00	0.00	0.00
14,900.0	90.00	179.53	10,601.0	-4,231.9	-192.0	4,230.2	0.00	0.00	0.00
15,000.0	90.00	179.53	10,601.0	-4,331.9	-191.2	4,330.2	0.00	0.00	0.00
15,100.0	90.00	179.53	10,601.0	-4,431.9	-190.4	4,430.2	0.00	0.00	0.00
15,200.0	90.00	179.53	10,601.0	-4,531.9	-189.6	4,530.2	0.00	0.00	0.00
15,300.0	90.00	179.53	10,601.0	-4,631.9	-188.7	4,630.2	0.00	0.00	0.00
15,400.0	90.00	179.53	10,601.0	-4,731.9	-187.9	4,730.2	0.00	0.00	0.00
15,500.0	90.00	179.53	10,601.0	-4,831.9	-187.1	4,830.2	0.00	0.00	0.00
15,600.0	90.00	179.53	10,601.0	-4,931.9	-186.3	4,930.2	0.00	0.00	0.00
15,700.0	90.00	179.53	10,601.0	-5,031.9	-185.4	5,030.2	0.00	0.00	0.00
15,800.0	90.00	179.53	10,601.0	-5,131.9	-184.6	5,130.2	0.00	0.00	0.00
15,900.0	90.00	179.53	10,601.0	-5,231.9	-183.8	5,230.2	0.00	0.00	0.00
16,000.0	90.00	179.53	10,601.0	-5,331.8	-183.0	5,330.2	0.00	0.00	0.00
16,100.0	90.00	179.53	10,601.0	-5,431.8	-182.2	5,430.2	0.00	0.00	0.00
16,200.0	90.00	179.53	10,601.0	-5,531.8	-181.3	5,530.2	0.00	0.00	0.00
16,300.0	90.00	179.53	10,601.0	-5,631.8	-180.5	5,630.2	0.00	0.00	0.00
16,400.0	90.00	179.53	10,601.0	-5,731.8	-179.7	5,730.2	0.00	0.00	0.00
16,500.0	90.00	179.53	10,601.0	-5,831.8	-178.9	5,830.2	0.00	0.00	0.00
16,600.0	90.00	179.53	10,601.0	-5,931.8	-178.0	5,930.2	0.00	0.00	0.00
16,700.0	90.00	179.53	10,601.0	-6,031.8	-177.2	6,030.2	0.00	0.00	0.00
16,800.0	90.00	179.53	10,601.0	-6,131.8	-176.4	6,130.2	0.00	0.00	0.00
16,900.0	90.00	179.53	10,601.0	-6,231.8	-175.6	6,230.2	0.00	0.00	0.00
17,000.0	90.00	179.53	10,601.0	-6,331.8	-174.7	6,330.2	0.00	0.00	0.00
17,100.0	90.00	179.53	10,601.0	-6,431.8	-173.9	6,430.2	0.00	0.00	0.00
17,200.0	90.00	179.53	10,601.0	-6,531.8	-173.1	6,530.2	0.00	0.00	0.00
17,300.0	90.00	179.53	10,601.0	-6,631.8	-172.3	6,630.2	0.00	0.00	0.00
17,400.0	90.00	179.53	10,601.0	-6,731.8	-171.4	6,730.2	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Voni Fed Com #133H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3222.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3222.5usft
Site:	Voni	**North Reference:**	Grid
Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #2		

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)
17,500.0	90.00	179.53	10,601.0	-6,831.8	-170.6	6,830.2	0.00	0.00	0.00
17,600.0	90.00	179.53	10,601.0	-6,931.8	-169.8	6,930.2	0.00	0.00	0.00
17,700.0	90.00	179.53	10,601.0	-7,031.8	-169.0	7,030.2	0.00	0.00	0.00
17,800.0	90.00	179.53	10,601.0	-7,131.8	-168.1	7,130.2	0.00	0.00	0.00
17,900.0	90.00	179.53	10,601.0	-7,231.8	-167.3	7,230.2	0.00	0.00	0.00
18,000.0	90.00	179.53	10,601.0	-7,331.8	-166.5	7,330.2	0.00	0.00	0.00
18,100.0	90.00	179.53	10,601.0	-7,431.8	-165.7	7,430.2	0.00	0.00	0.00
18,200.0	90.00	179.53	10,601.0	-7,531.8	-164.8	7,530.2	0.00	0.00	0.00
18,300.0	90.00	179.53	10,601.0	-7,631.8	-164.0	7,630.2	0.00	0.00	0.00
18,400.0	90.00	179.53	10,601.0	-7,731.8	-163.2	7,730.2	0.00	0.00	0.00
18,500.0	90.00	179.53	10,601.0	-7,831.8	-162.4	7,830.2	0.00	0.00	0.00
18,600.0	90.00	179.53	10,601.0	-7,931.8	-161.6	7,930.2	0.00	0.00	0.00
18,700.0	90.00	179.53	10,601.0	-8,031.8	-160.7	8,030.2	0.00	0.00	0.00
18,800.0	90.00	179.53	10,601.0	-8,131.8	-159.9	8,130.2	0.00	0.00	0.00
18,900.0	90.00	179.53	10,601.0	-8,231.8	-159.1	8,230.2	0.00	0.00	0.00
19,000.0	90.00	179.53	10,601.0	-8,331.7	-158.3	8,330.2	0.00	0.00	0.00
19,100.0	90.00	179.53	10,601.0	-8,431.7	-157.4	8,430.2	0.00	0.00	0.00
19,200.0	90.00	179.53	10,601.0	-8,531.7	-156.6	8,530.2	0.00	0.00	0.00
19,300.0	90.00	179.53	10,601.0	-8,631.7	-155.8	8,630.2	0.00	0.00	0.00
19,400.0	90.00	179.53	10,601.0	-8,731.7	-155.0	8,730.2	0.00	0.00	0.00
19,500.0	90.00	179.53	10,601.0	-8,831.7	-154.1	8,830.2	0.00	0.00	0.00
19,600.0	90.00	179.53	10,601.0	-8,931.7	-153.3	8,930.2	0.00	0.00	0.00
19,700.0	90.00	179.53	10,601.0	-9,031.7	-152.5	9,030.2	0.00	0.00	0.00
19,800.0	90.00	179.53	10,601.0	-9,131.7	-151.7	9,130.2	0.00	0.00	0.00
19,900.0	90.00	179.53	10,601.0	-9,231.7	-150.8	9,230.2	0.00	0.00	0.00
20,000.0	90.00	179.53	10,601.0	-9,331.7	-150.0	9,330.2	0.00	0.00	0.00
20,100.0	90.00	179.53	10,601.0	-9,431.7	-149.2	9,430.2	0.00	0.00	0.00
20,200.0	90.00	179.53	10,601.0	-9,531.7	-148.4	9,530.2	0.00	0.00	0.00
20,300.0	90.00	179.53	10,601.0	-9,631.7	-147.5	9,630.2	0.00	0.00	0.00
20,400.0	90.00	179.53	10,601.0	-9,731.7	-146.7	9,730.2	0.00	0.00	0.00
20,500.0	90.00	179.53	10,601.0	-9,831.7	-145.9	9,830.2	0.00	0.00	0.00
20,600.0	90.00	179.53	10,601.0	-9,931.7	-145.1	9,930.2	0.00	0.00	0.00
20,700.0	90.00	179.53	10,601.0	-10,031.7	-144.2	10,030.2	0.00	0.00	0.00
20,800.0	90.00	179.53	10,601.0	-10,131.7	-143.4	10,130.2	0.00	0.00	0.00
20,900.0	90.00	179.53	10,601.0	-10,231.7	-142.6	10,230.2	0.00	0.00	0.00
21,000.0	90.00	179.53	10,601.0	-10,331.7	-141.8	10,330.2	0.00	0.00	0.00
21,100.0	90.00	179.53	10,601.0	-10,431.7	-140.9	10,430.2	0.00	0.00	0.00
21,200.0	90.00	179.53	10,601.0	-10,531.7	-140.1	10,530.2	0.00	0.00	0.00
21,300.0	90.00	179.53	10,601.0	-10,631.7	-139.3	10,630.2	0.00	0.00	0.00
21,400.0	90.00	179.53	10,601.0	-10,731.7	-138.5	10,730.2	0.00	0.00	0.00
21,500.0	90.00	179.53	10,601.0	-10,831.7	-137.7	10,830.2	0.00	0.00	0.00
21,600.0	90.00	179.53	10,601.0	-10,931.7	-136.8	10,930.2	0.00	0.00	0.00
21,700.0	90.00	179.53	10,601.0	-11,031.7	-136.0	11,030.2	0.00	0.00	0.00
21,800.0	90.00	179.53	10,601.0	-11,131.7	-135.2	11,130.2	0.00	0.00	0.00
21,900.0	90.00	179.53	10,601.0	-11,231.6	-134.4	11,230.2	0.00	0.00	0.00
22,000.0	90.00	179.53	10,601.0	-11,331.6	-133.5	11,330.2	0.00	0.00	0.00
22,100.0	90.00	179.53	10,601.0	-11,431.6	-132.7	11,430.2	0.00	0.00	0.00
22,200.0	90.00	179.53	10,601.0	-11,531.6	-131.9	11,530.2	0.00	0.00	0.00
22,300.0	90.00	179.53	10,601.0	-11,631.6	-131.1	11,630.2	0.00	0.00	0.00
22,400.0	90.00	179.53	10,601.0	-11,731.6	-130.2	11,730.2	0.00	0.00	0.00
22,500.0	90.00	179.53	10,601.0	-11,831.6	-129.4	11,830.2	0.00	0.00	0.00
22,600.0	90.00	179.53	10,601.0	-11,931.6	-128.6	11,930.2	0.00	0.00	0.00
22,700.0	90.00	179.53	10,601.0	-12,031.6	-127.8	12,030.2	0.00	0.00	0.00
22,800.0	90.00	179.53	10,601.0	-12,131.6	-126.9	12,130.2	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Voni Fed Com #133H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3222.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3222.5usft
Site:	Voni	**North Reference:**	Grid
Well:	Voni Fed Com #133H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #2		

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)
22,900.0	90.00	179.53	10,601.0	-12,231.6	-126.1	12,230.2	0.00	0.00	0.00
23,000.0	90.00	179.53	10,601.0	-12,331.6	-125.3	12,330.2	0.00	0.00	0.00
23,083.3	90.00	179.53	10,601.0	-12,414.9	-124.6	12,413.5	0.00	0.00	0.00
TD at 23083.3 - BHL - Voni Fed Com #133H									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
VP - Voni Fed Com #13 - plan hits target center - Point	0.00	0.00	10,028.0	270.6	53.3	376,970.00	671,233.00	32° 2' 6.724 N	103° 46' 50.707 W
BHL - Voni Fed Com #1 - plan hits target center - Point	0.00	0.00	10,601.0	-12,414.9	-124.6	364,283.51	671,055.11	32° 0' 1.184 N	103° 46' 53.526 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
856.0	856.0	Rustler			
1,563.0	1,563.0	Salado (Top Salt)			
4,017.8	4,016.0	Base Salt			
4,045.9	4,044.0	Bell Canyon			
5,151.6	5,147.0	Cherry Canyon			
6,297.4	6,290.0	Brushy Canyon			
7,380.4	7,371.0	L. Brushy Canyon			
7,939.4	7,930.0	BSGL			
8,089.4	8,080.0	Avalon-SS			
8,925.4	8,916.0	FBSG			
9,363.4	9,354.0	SBSC			
9,602.4	9,593.0	SBSG			
10,131.8	10,122.0	TBSC			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
3,000.0	3,000.0	0.0	0.0	Start Build 1.00
3,400.0	3,399.7	13.7	2.7	Start 3620.0 hold at 3400.0 MD
7,020.0	7,010.8	261.5	51.5	Start Drop -1.50
7,286.6	7,277.3	270.6	53.3	Start 2750.7 hold at 7286.6 MD
10,037.4	10,028.0	270.6	53.3	Start Build 10.00
10,937.4	10,601.0	-279.9	-105.6	Start DLS 2.00 TFO -90.00
11,766.0	10,601.0	-1,098.0	-217.9	Start 11317.3 hold at 11766.0 MD
23,083.3	10,601.0	-12,414.9	-124.6	TD at 23083.3

Voni Fed Com 133H
SHL: 320' FNL & 2086' FEL Section 21
BHL: 100' FSL & 2310' FEL Section 33
Township/Range: 26S 31E
Elevation Above Sea Level: 3194

Drilling Operation Plan

Proposed Drilling Depth: 23083' MD / 10601' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation Quaternary Deposits

KOP Lat/Long (NAD83): 32.84477044103968 N / -104.7344510280291 W
TD Lat/Long (NAD83): 32.00045432089159 N / -103.78200771277531 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	855	855	707	Anhydrite	Barren
Salado (Top of Salt)	1,562	1,562	1,829	Salt	Barren
Castile	3,391	3,391	624	Salt	Barren
Lamar (Base of Salt)	4,015	4,015	28	Dolomite	Barren
Bell Canyon	4,043	4,043	1,103	Sandstone	Oil/Natural Gas
Cherry Canyon	5,146	5,146	1,143	Sandstone	Oil/Natural Gas
Brushy Canyon	6,289	6,289	1,612	Sandstone	Oil/Natural Gas
Bone Spring Lime	7,929	7,901	1,014	Limestone	Oil/Natural Gas
1st Bone Spring Sand	8,915	8,915	438	Sandstone	Oil/Natural Gas
2nd Bone Spring Carbonate	9,353	9,353	177	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	9,530	9,530	498	Sandstone	Oil/Natural Gas
KOP	**10,037**	**10,028**	**-**	**Sandstone**	**Oil/Natural Gas**
3rd Bone Spring Carb	10,131	10,122	-	Carbonate	Oil/Natural Gas
TD	**23,083**	**10,601**	**-**	**Carbonate**	**Oil/Natural Gas**

2. Notable Zones

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

3. Pressure Control

Equipment
A 12,000' 5,000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and one annular preventer will be utilized below surface casing to TD. See attachments for BOP and choke manifold diagrams.

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

Testing Procedure

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

A third party company will test the BOPs.

After setting surface casing, a minimum 5M BOPE system will be installed. Test pressures will be 250 psi low and 5,000 psi high with the annular preventer being tested to 250 psi low and 2500 psi high before drilling below surface shoe. In the event that the rig drills multiple wells on the pad and any seal subject to test pressures are broken, a full BOP test will be performed when the rig returns and the 5M BOPE system is re-installed.

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

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

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

4. Casing & Cement

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

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	17.5	0 - 1066	0 - 1066	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 9887	0 - 9878	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	6.75	0 - 23083	0 - 10601	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

- All casing strings will be tested in accordance with Onshore Order #2 - III.B.1.h
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed
- All non-API joint connections will be of like or greater quality, and as run specification sheets will be on location for review
- Request the option to deepen the Intermediate 1 casing set depth to 80° in curve, no changes in pipe grade or weight is neccesary.

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	Class	Blend
Surface	Lead	510	1.72	870	13.5	50%	0	C	5% NaCl + LCM
	Tail	250	1.38	347	14.8	50%	766	C	5% NaCl + LCM
Intermediate 1	Lead	700	3.66	2577	10.3	35%	0	A/C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	210	1.38	290	13.2	35%	8887	A/C	5% NaCl + LCM
Production	Tail	910	1.35	1231	13.2	10%	9687	A/C	Fluid Loss + Dispersant + Retarder

5. Mud Program

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

Hole Section	Hole Size (in)	Mud Type	Interval MD (ft)	Density (lb/gal)	Viscosity	Fluid Loss
Surface	17.5	Spud Mud	0 - 1066	8.4 - 8.8	28-30	NC
Intermediate 1	9.875	Diesel Brine Emulsion	1066 - 9887	8.4 - 9.4	28-30	NC
Production	6.75	OBM/Cut Brine	9887 - 23083	8.6 - 9.4	50-65	<20

6. Cores, Test, & Logs

No core or drill stem test is planned.

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

7. Down Hole Conditions

Drill Plan

No abnormal pressure or temperature is expected. Bottom hole pressure is 5182 psi. Maximum anticipated surface pressure is 2850 psi. Expected bottom hole temperature is 184 F.

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS

Action 23068

COMMENTS

Operator:	OGRID:	Action Number:	Action Type:
MATADOR PRODUCTION COMPANY One Lincoln Centre 5400 LBJ Freeway, Ste 1500 Dallas, TX75240	228937	23068	C-103A

Created By	Comment	Comment Date
kpickford	KP GEO Review 4/7/2021	04/07/2021

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CONDITIONS

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CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
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OCD Reviewer	Condition
kpickford	Adhere to previous NMOCD Conditions of Approval