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

Sundry Print Report

05/04/2021

Well Name: VONI FED COM

Well Location: T26S / R31E / SEC 21 / NWNW / 32.0345752 / -103.7898941

County or Parish/State: EDDY / NM

Well Number: 131H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM138866

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001546984

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: 03/02/2021

Time Sundry Submitted: 03:03

Date proposed operation will begin: 04/01/2021

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 also requests the BHL be revised from 100' FSL and 661' FWL to 100' FSL and 339' FWL of Sec. 33; 26S 31E Please also note the SHL should be 350' FNL and 484' FWL of Sec. 21; 26S 31E.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Voni_Fed_Com_131H_Directional_AC_Report_v3_20210302145321.pdf

Voni_Fed_Com_131H_Directional_Well_Plan_v3_20210302145320.pdf

Voni_Fed_Com_131H_Directional_Wall_Plot_v3_20210302145320.pdf

Voni_Fed_Com_131H_Drill_Plan_20210302145320.pdf

Voni_Fed_Com_131H_Casing_Table_Spec_20210302145320.pdf

LO_VONI_FED_COM_131H_REV4_C_102_S__revised_SHL_3.2.21_20210302143636.pdf

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Conditions of Approval

Additional Reviews

VONI_FED_COM_131H_SUNDRY___Drilling_Calculations_20210317073430.pdf

VONI_FED_COM_131H_SUNDRY___COA_20210317073414.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: NICKY FITZGERALD

Signed on: MAR 02, 2021 03:01 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
30-015-46984	97860	JENNINGS; BONE SPRING, WEST

[4]Property Code	[5]Property Name	[6]Well Number
328098	VONI FED COM	131H

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

[10]Surface Location

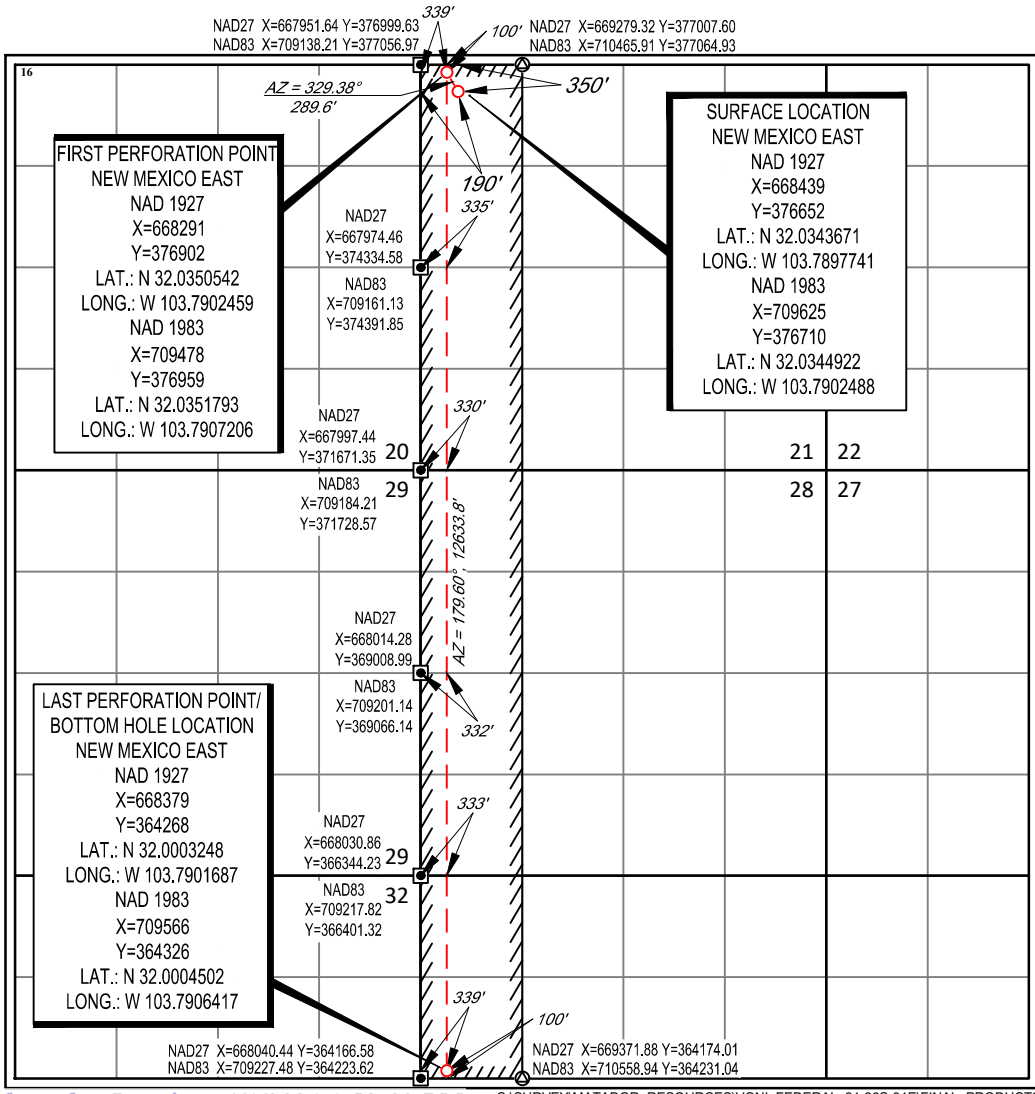
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	21	26-S	31-E	–	350'	NORTH	190'	WEST	EDDY

[11]Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	33	26-S	31-E	–	100'	SOUTH	339'	WEST	EDDY

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
385.38			

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 2/12/21
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.

02/05/2021
Date of Survey
Signature and Seal of Professional Surveyor

ANGEL M. DAZA
NEW MEXICO
25116
PROFESSIONAL SURVEYOR

Certificate Number

S:\SURVEY\MATADOR_RESOURCES\VONI_FEDERAL_21-26S-31E\FINAL_PRODUCTS\LO_VONI_FED_COM_131H_REV4.DWG 2/12/2021 7:29:31 AM adisabella

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**MATADOR PRODUCTION COMPANY**
LEASE NO.:	**NMNM138866**
WELL NAME & NO.:	VONI FED COM 131H SUNDRY
SURFACE HOLE FOOTAGE:	350'/N & 484'/W
BOTTOM HOLE FOOTAGE	100'/S & 339'/ W
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 **9853 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 D ATS-19-2186 VONI FED COM 131H Eddy NMNM138866 Matador 13-22 03172021 RI SUNDRY

VONI FED COM 131H 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	14.90	2.35	0.57	1,051	6	1.03	4.53	57,280
w/8.4#/g mud, 30min Sfc Csg Test psig:	1,452		Tail Cmt	does not	circ to sfc.	Totals:	1,051				57,280

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	750	1205	730	65	8.80	2639	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	3.22	1.11	1.84	9,853	2	3.34	2.03	292,634
w/8.4#/g mud, 30min Sfc Csg Test psig:						Totals:	9,853				292,634

The cement volume(s) are intended to achieve a top of 0 ft from surface or a 1051 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	2469	15	9.40	2833	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	2.52	2.27	2.79	23,028	3	5.07	4.59	460,560
w/8.4#/g mud, 30min Sfc Csg Test psig:	2,323					Totals:	23,028				460,560

The cement volume(s) are intended to achieve a top of 9653 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	1119	10	9.40			0.44

Class 'C' tail cmt yld > 1.35

More cement may be needed.

#N/A

Casing Table Specification Sheet

Voni Fed Com 131H
SHL: 350' FNL & 484' FWL Section 21
BHL: 100' FSL & 339' FWL Section 33
Township/Range: 26S 31E
Elevation Above Sea Level: 3194

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 - 1051	0 - 1051	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 9853	0 - 9836	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	6.75	0 - 23028	0 - 10559	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

Matador Production Company

Rustler Breaks
Voni
Voni Fed Com #131H

Wellbore #1
BLM Plan #2

Anticollision Report

24 February, 2021

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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	23,028.2	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
Flowers Federal SWD						
Flowers SWD #3 - Wellbore #1 - BLM Plan #1	11,440.9	10,558.0	521.0	443.4	6.710	CC, ES, SF
Voni						
Voni Fed Com #021H - Wellbore #1 - BLM Plan #1	1,989.3	1,991.8	29.3	15.6	2.130	CC
Voni Fed Com #021H - Wellbore #1 - BLM Plan #1	2,200.0	2,203.5	29.9	14.6	1.959	ES
Voni Fed Com #021H - Wellbore #1 - BLM Plan #1	7,003.5	7,004.9	71.0	20.7	1.412	Level 3, SF
Voni Fed Com #101H - Wellbore #1 - BLM Plan #1	1,500.0	1,501.0	80.0	69.7	7.771	CC
Voni Fed Com #101H - Wellbore #1 - BLM Plan #1	1,700.0	1,699.5	80.9	69.2	6.906	ES
Voni Fed Com #101H - Wellbore #1 - BLM Plan #1	7,700.0	7,698.5	177.1	122.0	3.217	SF
Voni Fed Com #105H - Wellbore #1 - BLM PLan #1	1,500.0	1,500.0	85.5	75.2	8.306	CC
Voni Fed Com #105H - Wellbore #1 - BLM PLan #1	1,800.0	1,800.1	86.4	73.9	6.941	ES
Voni Fed Com #105H - Wellbore #1 - BLM PLan #1	2,700.0	2,704.8	111.8	92.9	5.920	SF
Voni Fed Com #111H - Wellbore #1 - Actual	5,267.4	5,261.3	64.3	26.8	1.712	CC
Voni Fed Com #111H - Wellbore #1 - Actual	8,400.0	8,394.2	70.2	11.1	1.187	Level 2, ES, SF
Voni Fed Com #121H - Wellbore #1 - Actual	7,981.2	7,985.2	109.9	53.8	1.958	CC
Voni Fed Com #121H - Wellbore #1 - Actual	8,200.0	8,203.8	110.8	53.1	1.919	ES
Voni Fed Com #121H - Wellbore #1 - Actual	9,300.0	9,303.3	120.2	54.7	1.835	SF
Voni Fed Com #201H - Wellbore #1 - Actual	5,220.0	5,217.0	111.6	74.2	2.984	CC
Voni Fed Com #201H - Wellbore #1 - Actual	10,241.2	10,233.3	122.7	50.8	1.706	ES
Voni Fed Com #201H - Wellbore #1 - Actual	10,250.0	10,241.4	122.8	50.8	1.706	SF
Voni Fed Com #215H - Wellbore #1 - Actual	2,630.6	2,644.0	129.0	110.9	7.122	CC, ES
Voni Fed Com #215H - Wellbore #1 - Actual	22,900.0	23,954.2	1,189.9	903.8	4.159	SF
Voni Fed Com #221H - Wellbore #1 - BLM Plan #1	1,500.0	1,501.0	110.1	99.8	10.690	CC
Voni Fed Com #221H - Wellbore #1 - BLM Plan #1	1,600.0	1,599.8	110.4	99.4	10.029	ES
Voni Fed Com #221H - Wellbore #1 - BLM Plan #1	10,250.0	10,248.1	243.2	170.4	3.338	SF
Voni Fed Com #225H - Wellbore #1 - BLM Plan #1	2,429.1	2,437.6	67.4	50.4	3.978	CC, ES
Voni Fed Com #225H - Wellbore #1 - BLM Plan #1	2,500.0	2,507.5	68.4	51.0	3.915	SF
Voni Fed Com #241H - Wellbore #1 - BLM Plan #1	1,500.0	1,499.0	42.3	32.0	4.115	CC
Voni Fed Com #241H - Wellbore #1 - BLM Plan #1	1,700.0	1,699.9	43.3	31.5	3.691	ES
Voni Fed Com #241H - Wellbore #1 - BLM Plan #1	10,050.0	10,050.5	148.4	76.6	2.066	SF

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Reference Well:	Voni Fed Com #131H	**Survey 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 Flowers Federal SWD - Flowers SWD #3 - 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	161.96	-831.7	270.8	874.7				
100.0	100.0	101.0	99.0	0.1	0.1	161.96	-831.7	270.8	874.7	874.4	0.26	3,365.550	
200.0	200.0	201.0	199.0	0.5	0.5	161.96	-831.7	270.8	874.7	873.7	0.98	895.423	
300.0	300.0	301.0	299.0	0.8	0.8	161.96	-831.7	270.8	874.7	873.0	1.69	516.408	
400.0	400.0	401.0	399.0	1.2	1.2	161.96	-831.7	270.8	874.7	872.3	2.41	362.829	
500.0	500.0	501.0	499.0	1.6	1.6	161.96	-831.7	270.8	874.7	871.6	3.13	279.659	
600.0	600.0	601.0	599.0	1.9	1.9	161.96	-831.7	270.8	874.7	870.8	3.84	227.508	
700.0	700.0	701.0	699.0	2.3	2.3	161.96	-831.7	270.8	874.7	870.1	4.56	191.751	
800.0	800.0	801.0	799.0	2.6	2.6	161.96	-831.7	270.8	874.7	869.4	5.28	165.706	
900.0	900.0	901.0	899.0	3.0	3.0	161.96	-831.7	270.8	874.7	868.7	6.00	145.891	
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	161.96	-831.7	270.8	874.7	868.0	6.71	130.309	
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	161.96	-831.7	270.8	874.7	867.3	7.43	117.734	
1,200.0	1,200.0	1,201.0	1,199.0	4.1	4.1	161.96	-831.7	270.8	874.7	866.5	8.15	107.372	
1,300.0	1,300.0	1,301.0	1,299.0	4.4	4.4	161.96	-831.7	270.8	874.7	865.8	8.86	98.687	
1,400.0	1,400.0	1,401.0	1,399.0	4.8	4.8	161.96	-831.7	270.8	874.7	865.1	9.58	91.301	
1,500.0	1,500.0	1,501.0	1,499.0	5.1	5.2	161.96	-831.7	270.8	874.7	864.4	10.30	84.944	
1,600.0	1,600.0	1,601.0	1,599.0	5.5	5.5	179.02	-831.7	270.8	875.6	864.5	11.01	79.497	
1,700.0	1,700.0	1,701.0	1,699.0	5.9	5.9	179.02	-831.7	270.8	878.2	866.4	11.73	74.864	
1,800.0	1,799.9	1,801.1	1,798.9	6.2	6.2	179.02	-831.7	270.8	882.5	870.1	12.45	70.903	
1,900.0	1,899.7	1,901.3	1,898.7	6.6	6.6	179.03	-831.7	270.8	888.6	875.5	13.16	67.504	
2,000.0	1,999.4	2,001.6	1,998.4	6.9	6.9	179.04	-831.7	270.8	896.5	882.6	13.88	64.580	
2,100.0	2,098.9	2,102.1	2,097.9	7.3	7.3	179.05	-831.7	270.8	906.1	891.5	14.60	62.061	
2,200.0	2,198.3	2,202.7	2,197.3	7.7	7.7	179.06	-831.7	270.8	917.4	902.1	15.32	59.888	
2,300.0	2,297.4	2,303.6	2,296.4	8.0	8.0	179.07	-831.7	270.8	930.4	914.4	16.04	58.015	
2,400.0	2,396.4	2,404.6	2,395.4	8.4	8.4	179.08	-831.7	270.8	944.3	927.6	16.76	56.354	
2,500.0	2,495.5	2,505.5	2,494.5	8.8	8.8	179.09	-831.7	270.8	958.3	940.8	17.48	54.829	
2,600.0	2,594.5	2,606.5	2,593.5	9.2	9.1	179.11	-831.7	270.8	972.2	954.0	18.20	53.422	
2,700.0	2,693.5	2,707.5	2,692.5	9.6	9.5	179.12	-831.7	270.8	986.1	967.2	18.92	52.120	
2,800.0	2,792.5	2,808.5	2,791.5	10.0	9.8	179.13	-831.7	270.8	1,000.0	980.4	19.64	50.912	
2,900.0	2,891.6	2,909.4	2,890.6	10.3	10.2	179.14	-831.7	270.8	1,013.9	993.6	20.36	49.789	
3,000.0	2,990.6	2,989.6	2,989.6	10.7	10.5	179.15	-831.7	270.8	1,027.8	1,006.8	21.01	48.914	
3,100.0	3,089.6	3,088.6	3,088.6	11.1	10.8	179.17	-831.7	270.8	1,041.8	1,020.0	21.73	47.941	
3,200.0	3,188.6	3,187.6	3,187.6	11.5	11.2	179.18	-831.7	270.8	1,055.7	1,033.2	22.45	47.029	
3,300.0	3,287.7	3,286.7	3,286.7	11.9	11.6	179.19	-831.7	270.8	1,069.6	1,046.4	23.17	46.172	
3,400.0	3,386.7	3,385.7	3,385.7	12.3	11.9	179.20	-831.7	270.8	1,083.5	1,059.6	23.88	45.367	
3,500.0	3,485.7	3,484.7	3,484.7	12.7	12.3	179.21	-831.7	270.8	1,097.4	1,072.8	24.60	44.608	
3,600.0	3,584.8	3,583.8	3,583.8	13.1	12.6	179.22	-831.7	270.8	1,111.3	1,086.0	25.32	43.891	
3,653.6	3,637.9	3,636.9	3,636.9	13.3	12.8	179.22	-831.7	270.8	1,118.8	1,093.1	25.71	43.523	
3,700.0	3,683.8	3,682.8	3,682.8	13.5	13.0	179.23	-831.7	270.8	1,125.0	1,098.9	26.04	43.204	
3,800.0	3,783.2	3,782.2	3,782.2	13.9	13.3	179.24	-831.7	270.8	1,136.4	1,109.6	26.76	42.470	
3,900.0	3,882.8	3,881.8	3,881.8	14.3	13.7	179.25	-831.7	270.8	1,145.2	1,117.7	27.48	41.680	
4,000.0	3,982.6	3,981.6	3,981.6	14.7	14.0	179.25	-831.7	270.8	1,151.4	1,123.2	28.19	40.840	
4,100.0	4,082.5	4,081.5	4,081.5	15.0	14.4	179.26	-831.7	270.8	1,155.0	1,126.1	28.91	39.952	
4,187.0	4,169.5	4,168.5	4,168.5	15.3	14.7	162.20	-831.7	270.8	1,156.0	1,126.4	29.53	39.146	
4,200.0	4,182.5	4,181.5	4,181.5	15.4	14.8	162.20	-831.7	270.8	1,156.0	1,126.4	29.62	39.023	
4,300.0	4,282.5	4,281.5	4,281.5	15.7	15.1	162.20	-831.7	270.8	1,156.0	1,125.6	30.34	38.107	
4,400.0	4,382.5	4,381.5	4,381.5	16.1	15.5	162.20	-831.7	270.8	1,156.0	1,124.9	31.05	37.232	
4,500.0	4,482.5	4,481.5	4,481.5	16.4	15.8	162.20	-831.7	270.8	1,156.0	1,124.2	31.76	36.396	
4,600.0	4,582.5	4,581.5	4,581.5	16.7	16.2	162.20	-831.7	270.8	1,156.0	1,123.5	32.47	35.597	
4,700.0	4,682.5	4,681.5	4,681.5	17.1	16.6	162.20	-831.7	270.8	1,156.0	1,122.8	33.19	34.832	
4,800.0	4,782.5	4,781.5	4,781.5	17.4	16.9	162.20	-831.7	270.8	1,156.0	1,122.1	33.90	34.099	
4,900.0	4,882.5	4,881.5	4,881.5	17.8	17.3	162.20	-831.7	270.8	1,156.0	1,121.4	34.61	33.396	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 Flowers Federal SWD - Flowers SWD #3 - 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
5,000.0	4,982.5	4,981.5	4,981.5	18.1	17.6	162.20	-831.7	270.8	1,156.0	1,120.6	35.33	32.721	
5,100.0	5,082.5	5,081.5	5,081.5	18.5	18.0	162.20	-831.7	270.8	1,156.0	1,119.9	36.04	32.073	
5,200.0	5,182.5	5,181.5	5,181.5	18.8	18.3	162.20	-831.7	270.8	1,156.0	1,119.2	36.76	31.450	
5,300.0	5,282.5	5,281.5	5,281.5	19.2	18.7	162.20	-831.7	270.8	1,156.0	1,118.5	37.47	30.851	
5,400.0	5,382.5	5,381.5	5,381.5	19.5	19.1	162.20	-831.7	270.8	1,156.0	1,117.8	38.18	30.273	
5,500.0	5,482.5	5,481.5	5,481.5	19.9	19.4	162.20	-831.7	270.8	1,156.0	1,117.1	38.90	29.718	
5,600.0	5,582.5	5,581.5	5,581.5	20.2	19.8	162.20	-831.7	270.8	1,156.0	1,116.4	39.61	29.182	
5,700.0	5,682.5	5,681.5	5,681.5	20.6	20.1	162.20	-831.7	270.8	1,156.0	1,115.6	40.33	28.665	
5,800.0	5,782.5	5,781.5	5,781.5	20.9	20.5	162.20	-831.7	270.8	1,156.0	1,114.9	41.04	28.166	
5,900.0	5,882.5	5,881.5	5,881.5	21.3	20.9	162.20	-831.7	270.8	1,156.0	1,114.2	41.76	27.683	
6,000.0	5,982.5	5,981.5	5,981.5	21.6	21.2	162.20	-831.7	270.8	1,156.0	1,113.5	42.47	27.218	
6,100.0	6,082.5	6,081.5	6,081.5	22.0	21.6	162.20	-831.7	270.8	1,156.0	1,112.8	43.19	26.767	
6,200.0	6,182.5	6,181.5	6,181.5	22.3	21.9	162.20	-831.7	270.8	1,156.0	1,112.1	43.90	26.331	
6,300.0	6,282.5	6,281.5	6,281.5	22.7	22.3	162.20	-831.7	270.8	1,156.0	1,111.4	44.62	25.909	
6,400.0	6,382.5	6,381.5	6,381.5	23.0	22.6	162.20	-831.7	270.8	1,156.0	1,110.6	45.33	25.501	
6,500.0	6,482.5	6,481.5	6,481.5	23.4	23.0	162.20	-831.7	270.8	1,156.0	1,109.9	46.05	25.105	
6,600.0	6,582.5	6,581.5	6,581.5	23.7	23.4	162.20	-831.7	270.8	1,156.0	1,109.2	46.76	24.721	
6,700.0	6,682.5	6,681.5	6,681.5	24.1	23.7	162.20	-831.7	270.8	1,156.0	1,108.5	47.48	24.348	
6,800.0	6,782.5	6,781.5	6,781.5	24.4	24.1	162.20	-831.7	270.8	1,156.0	1,107.8	48.19	23.987	
6,900.0	6,882.5	6,881.5	6,881.5	24.8	24.4	162.20	-831.7	270.8	1,156.0	1,107.1	48.91	23.636	
7,000.0	6,982.5	6,981.5	6,981.5	25.1	24.8	162.20	-831.7	270.8	1,156.0	1,106.4	49.62	23.295	
7,100.0	7,082.5	7,081.5	7,081.5	25.5	25.2	162.20	-831.7	270.8	1,156.0	1,105.6	50.34	22.964	
7,200.0	7,182.5	7,181.5	7,181.5	25.8	25.5	162.20	-831.7	270.8	1,156.0	1,104.9	51.05	22.643	
7,300.0	7,282.5	7,281.5	7,281.5	26.2	25.9	162.20	-831.7	270.8	1,156.0	1,104.2	51.77	22.330	
7,400.0	7,382.5	7,381.5	7,381.5	26.5	26.2	162.20	-831.7	270.8	1,156.0	1,103.5	52.48	22.025	
7,500.0	7,482.5	7,481.5	7,481.5	26.9	26.6	162.20	-831.7	270.8	1,156.0	1,102.8	53.20	21.729	
7,600.0	7,582.5	7,581.5	7,581.5	27.3	26.9	162.20	-831.7	270.8	1,156.0	1,102.1	53.92	21.441	
7,700.0	7,682.5	7,681.5	7,681.5	27.6	27.3	162.20	-831.7	270.8	1,156.0	1,101.3	54.63	21.160	
7,800.0	7,782.5	7,781.5	7,781.5	28.0	27.7	162.20	-831.7	270.8	1,156.0	1,100.6	55.35	20.886	
7,900.0	7,882.5	7,881.5	7,881.5	28.3	28.0	162.20	-831.7	270.8	1,156.0	1,099.9	56.06	20.619	
8,000.0	7,982.5	7,981.5	7,981.5	28.7	28.4	162.20	-831.7	270.8	1,156.0	1,099.2	56.78	20.360	
8,100.0	8,082.5	8,081.5	8,081.5	29.0	28.7	162.20	-831.7	270.8	1,156.0	1,098.5	57.49	20.106	
8,200.0	8,182.5	8,181.5	8,181.5	29.4	29.1	162.20	-831.7	270.8	1,156.0	1,097.8	58.21	19.859	
8,300.0	8,282.5	8,281.5	8,281.5	29.7	29.5	162.20	-831.7	270.8	1,156.0	1,097.0	58.93	19.618	
8,400.0	8,382.5	8,381.5	8,381.5	30.1	29.8	162.20	-831.7	270.8	1,156.0	1,096.3	59.64	19.382	
8,500.0	8,482.5	8,481.5	8,481.5	30.4	30.2	162.20	-831.7	270.8	1,156.0	1,095.6	60.36	19.152	
8,600.0	8,582.5	8,581.5	8,581.5	30.8	30.5	162.20	-831.7	270.8	1,156.0	1,094.9	61.07	18.928	
8,700.0	8,682.5	8,681.5	8,681.5	31.1	30.9	162.20	-831.7	270.8	1,156.0	1,094.2	61.79	18.708	
8,800.0	8,782.5	8,781.5	8,781.5	31.5	31.2	162.20	-831.7	270.8	1,156.0	1,093.5	62.50	18.494	
8,900.0	8,882.5	8,881.5	8,881.5	31.9	31.6	162.20	-831.7	270.8	1,156.0	1,092.8	63.22	18.285	
9,000.0	8,982.5	8,981.5	8,981.5	32.2	32.0	162.20	-831.7	270.8	1,156.0	1,092.0	63.94	18.080	
9,100.0	9,082.5	9,081.5	9,081.5	32.6	32.3	162.20	-831.7	270.8	1,156.0	1,091.3	64.65	17.880	
9,200.0	9,182.5	9,181.5	9,181.5	32.9	32.7	162.20	-831.7	270.8	1,156.0	1,090.6	65.37	17.684	
9,300.0	9,282.5	9,281.5	9,281.5	33.3	33.0	162.20	-831.7	270.8	1,156.0	1,089.9	66.08	17.492	
9,400.0	9,382.5	9,381.5	9,381.5	33.6	33.4	162.20	-831.7	270.8	1,156.0	1,089.2	66.80	17.305	
9,500.0	9,482.5	9,481.5	9,481.5	34.0	33.8	162.20	-831.7	270.8	1,156.0	1,088.5	67.52	17.121	
9,600.0	9,582.5	9,581.5	9,581.5	34.3	34.1	162.20	-831.7	270.8	1,156.0	1,087.7	68.23	16.942	
9,700.0	9,682.5	9,681.5	9,681.5	34.7	34.5	162.20	-831.7	270.8	1,156.0	1,087.0	68.95	16.766	
9,800.0	9,782.5	9,781.5	9,781.5	35.1	34.8	162.20	-831.7	270.8	1,156.0	1,086.3	69.67	16.593	
9,900.0	9,882.5	9,881.5	9,881.5	35.4	35.2	162.20	-831.7	270.8	1,156.0	1,085.6	70.38	16.424	
10,000.0	9,982.5	9,981.5	9,981.5	35.8	35.6	162.20	-831.7	270.8	1,156.0	1,084.9	71.10	16.259	
10,003.5	9,986.0	9,985.0	9,985.0	35.8	35.6	162.20	-831.7	270.8	1,156.0	1,084.9	71.12	16.253	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 Flowers Federal SWD - Flowers SWD #3 - 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	10,032.4	10,031.4	10,031.4	35.9	35.7	-29.22	-831.7	270.8	1,154.3	1,082.9	71.45	16.157	
10,100.0	10,082.0	10,081.0	10,081.0	36.1	35.9	-29.64	-831.7	270.8	1,148.9	1,077.1	71.78	16.006	
10,150.0	10,130.9	10,129.9	10,129.9	36.2	36.1	-30.37	-831.7	270.8	1,139.7	1,067.6	72.11	15.806	
10,200.0	10,178.7	10,177.7	10,177.7	36.4	36.3	-31.43	-831.7	270.8	1,126.9	1,054.5	72.42	15.560	
10,250.0	10,225.0	10,224.0	10,224.0	36.5	36.4	-32.85	-831.7	270.8	1,110.6	1,037.9	72.73	15.271	
10,300.0	10,269.4	10,268.4	10,268.4	36.6	36.6	-34.68	-831.7	270.8	1,091.0	1,018.0	73.02	14.942	
10,350.0	10,311.8	10,310.8	10,310.8	36.7	36.7	-36.95	-831.7	270.8	1,068.3	995.0	73.29	14.576	
10,400.0	10,351.6	10,350.6	10,350.6	36.8	36.9	-39.74	-831.7	270.8	1,042.8	969.2	73.55	14.178	
10,450.0	10,388.7	10,387.7	10,387.7	36.9	37.0	-43.09	-831.7	270.8	1,014.7	940.9	73.78	13.752	
10,500.0	10,422.7	10,421.7	10,421.7	37.0	37.1	-47.06	-831.7	270.8	984.4	910.4	74.00	13.302	
10,550.0	10,453.3	10,452.3	10,452.3	37.1	37.2	-51.65	-831.7	270.8	952.3	878.1	74.20	12.833	
10,600.0	10,480.4	10,479.4	10,479.4	37.2	37.3	-56.85	-831.7	270.8	918.7	844.3	74.39	12.350	
10,650.0	10,503.8	10,502.8	10,502.8	37.3	37.4	-62.54	-831.7	270.8	884.2	809.6	74.56	11.858	
10,700.0	10,523.2	10,522.2	10,522.2	37.4	37.5	-68.51	-831.7	270.8	849.1	774.4	74.72	11.364	
10,750.0	10,538.5	10,537.5	10,537.5	37.5	37.5	-74.50	-831.7	270.8	814.1	739.2	74.87	10.873	
10,800.0	10,549.6	10,548.6	10,548.6	37.6	37.6	-80.21	-831.7	270.8	779.5	704.5	75.01	10.392	
10,850.0	10,556.5	10,555.5	10,555.5	37.7	37.6	-85.35	-831.7	270.8	746.1	670.9	75.15	9.928	
10,900.0	10,558.9	10,557.9	10,557.9	37.9	37.6	-89.72	-831.7	270.8	714.3	639.0	75.29	9.487	
10,903.5	10,559.0	10,558.0	10,558.0	37.9	37.6	-90.00	-831.7	270.8	712.1	636.8	75.30	9.457	
11,000.0	10,559.0	10,558.0	10,558.0	38.2	37.6	-90.00	-831.7	270.8	655.9	580.3	75.61	8.675	
11,100.0	10,559.0	10,558.0	10,558.0	38.5	37.6	-90.00	-831.7	270.8	605.4	529.3	76.03	7.963	
11,200.0	10,559.0	10,558.0	10,558.0	38.9	37.6	-90.00	-831.7	270.8	564.8	488.2	76.52	7.381	
11,300.0	10,559.0	10,558.0	10,558.0	39.4	37.6	-90.00	-831.7	270.8	536.4	459.4	77.04	6.963	
11,400.0	10,559.0	10,558.0	10,558.0	40.0	37.6	-90.00	-831.7	270.8	522.4	444.9	77.50	6.740	
11,440.9	10,559.0	10,558.0	10,558.0	40.2	37.6	-90.00	-831.7	270.8	521.0	443.4	77.65	6.710	CC, ES, SF
11,488.5	10,559.0	10,558.0	10,558.0	40.5	37.6	-90.00	-831.7	270.8	522.8	445.0	77.78	6.722	
11,500.0	10,559.0	10,558.0	10,558.0	40.5	37.6	-90.00	-831.7	270.8	523.8	446.0	77.80	6.732	
11,600.0	10,559.0	10,558.0	10,558.0	41.2	37.6	-90.00	-831.7	270.8	542.6	464.7	77.91	6.965	
11,700.0	10,559.0	10,558.0	10,558.0	41.9	37.6	-90.00	-831.7	270.8	578.4	500.6	77.83	7.431	
11,800.0	10,559.0	10,558.0	10,558.0	42.6	37.6	-90.00	-831.7	270.8	628.2	550.5	77.65	8.090	
11,900.0	10,559.0	10,558.0	10,558.0	43.4	37.6	-90.00	-831.7	270.8	689.0	611.6	77.42	8.900	
12,000.0	10,559.0	10,558.0	10,558.0	44.3	37.6	-90.00	-831.7	270.8	758.1	681.0	77.19	9.822	
12,100.0	10,559.0	10,558.0	10,558.0	45.2	37.6	-90.00	-831.7	270.8	833.6	756.6	76.98	10.829	
12,200.0	10,559.0	10,558.0	10,558.0	46.1	37.6	-90.00	-831.7	270.8	913.8	837.0	76.79	11.899	
12,300.0	10,559.0	10,558.0	10,558.0	47.1	37.6	-90.00	-831.7	270.8	997.5	920.9	76.64	13.015	
12,400.0	10,559.0	10,558.0	10,558.0	48.1	37.6	-90.00	-831.7	270.8	1,084.0	1,007.5	76.51	14.168	
12,500.0	10,559.0	10,558.0	10,558.0	49.1	37.6	-90.00	-831.7	270.8	1,172.7	1,096.3	76.41	15.347	
12,600.0	10,559.0	10,558.0	10,558.0	50.2	37.6	-90.00	-831.7	270.8	1,263.0	1,186.7	76.33	16.548	
12,700.0	10,559.0	10,558.0	10,558.0	51.3	37.6	-90.00	-831.7	270.8	1,354.8	1,278.5	76.26	17.766	
12,800.0	10,559.0	10,558.0	10,558.0	52.4	37.6	-90.00	-831.7	270.8	1,447.6	1,371.4	76.20	18.997	
12,900.0	10,559.0	10,558.0	10,558.0	53.6	37.6	-90.00	-831.7	270.8	1,541.3	1,465.1	76.16	20.238	
13,000.0	10,559.0	10,558.0	10,558.0	54.8	37.6	-90.00	-831.7	270.8	1,635.7	1,559.6	76.12	21.488	
13,100.0	10,559.0	10,558.0	10,558.0	56.0	37.6	-90.00	-831.7	270.8	1,730.8	1,654.7	76.10	22.744	
13,200.0	10,559.0	10,558.0	10,558.0	57.2	37.6	-90.00	-831.7	270.8	1,826.4	1,750.3	76.08	24.006	
13,300.0	10,559.0	10,558.0	10,558.0	58.5	37.6	-90.00	-831.7	270.8	1,922.5	1,846.4	76.07	25.273	
13,400.0	10,559.0	10,558.0	10,558.0	59.8	37.6	-90.00	-831.7	270.8	2,018.9	1,942.8	76.06	26.543	
13,500.0	10,559.0	10,558.0	10,558.0	61.0	37.6	-90.00	-831.7	270.8	2,115.7	2,039.6	76.06	27.816	
13,600.0	10,559.0	10,558.0	10,558.0	62.4	37.6	-90.00	-831.7	270.8	2,212.7	2,136.7	76.06	29.091	
13,700.0	10,559.0	10,558.0	10,558.0	63.7	37.6	-90.00	-831.7	270.8	2,310.0	2,234.0	76.07	30.368	
13,800.0	10,559.0	10,558.0	10,558.0	65.0	37.6	-90.00	-831.7	270.8	2,407.5	2,331.5	76.08	31.646	
13,900.0	10,559.0	10,558.0	10,558.0	66.4	37.6	-90.00	-831.7	270.8	2,505.3	2,429.2	76.09	32.925	
14,000.0	10,559.0	10,558.0	10,558.0	67.7	37.6	-90.00	-831.7	270.8	2,603.2	2,527.1	76.11	34.205	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 Flowers Federal SWD - Flowers SWD #3 - 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	10,559.0	10,558.0	10,558.0	69.1	37.6	-90.00	-831.7	270.8	2,701.2	2,625.1	76.12	35.484	
14,200.0	10,559.0	10,558.0	10,558.0	70.5	37.6	-90.00	-831.7	270.8	2,799.4	2,723.3	76.14	36.764	
14,300.0	10,559.0	10,558.0	10,558.0	71.9	37.6	-90.00	-831.7	270.8	2,897.7	2,821.5	76.17	38.044	
14,400.0	10,559.0	10,558.0	10,558.0	73.3	37.6	-90.00	-831.7	270.8	2,996.1	2,919.9	76.19	39.323	
14,500.0	10,559.0	10,558.0	10,558.0	74.8	37.6	-90.00	-831.7	270.8	3,094.7	3,018.4	76.22	40.602	
14,600.0	10,559.0	10,558.0	10,558.0	76.2	37.6	-90.00	-831.7	270.8	3,193.3	3,117.0	76.25	41.879	
14,700.0	10,559.0	10,558.0	10,558.0	77.6	37.6	-90.00	-831.7	270.8	3,292.0	3,215.7	76.28	43.156	
14,800.0	10,559.0	10,558.0	10,558.0	79.1	37.6	-90.00	-831.7	270.8	3,390.7	3,314.4	76.31	44.432	
14,900.0	10,559.0	10,558.0	10,558.0	80.5	37.6	-90.00	-831.7	270.8	3,489.6	3,413.2	76.35	45.707	
15,000.0	10,559.0	10,558.0	10,558.0	82.0	37.6	-90.00	-831.7	270.8	3,588.5	3,512.1	76.38	46.980	
15,100.0	10,559.0	10,558.0	10,558.0	83.5	37.6	-90.00	-831.7	270.8	3,687.5	3,611.0	76.42	48.252	
15,200.0	10,559.0	10,558.0	10,558.0	84.9	37.6	-90.00	-831.7	270.8	3,786.5	3,710.0	76.46	49.523	
15,300.0	10,559.0	10,558.0	10,558.0	86.4	37.6	-90.00	-831.7	270.8	3,885.6	3,809.1	76.50	50.792	
15,400.0	10,559.0	10,558.0	10,558.0	87.9	37.6	-90.00	-831.7	270.8	3,984.7	3,908.1	76.54	52.059	
15,500.0	10,559.0	10,558.0	10,558.0	89.4	37.6	-90.00	-831.7	270.8	4,083.8	4,007.2	76.58	53.325	
15,600.0	10,559.0	10,558.0	10,558.0	90.9	37.6	-90.00	-831.7	270.8	4,183.0	4,106.4	76.63	54.588	
15,700.0	10,559.0	10,558.0	10,558.0	92.4	37.6	-90.00	-831.7	270.8	4,282.3	4,205.6	76.67	55.850	
15,800.0	10,559.0	10,558.0	10,558.0	93.9	37.6	-90.00	-831.7	270.8	4,381.5	4,304.8	76.72	57.110	
15,900.0	10,559.0	10,558.0	10,558.0	95.5	37.6	-90.00	-831.7	270.8	4,480.9	4,404.1	76.77	58.368	
16,000.0	10,559.0	10,558.0	10,558.0	97.0	37.6	-90.00	-831.7	270.8	4,580.2	4,503.4	76.82	59.623	
16,100.0	10,559.0	10,558.0	10,558.0	98.5	37.6	-90.00	-831.7	270.8	4,679.6	4,602.7	76.87	60.877	
16,200.0	10,559.0	10,558.0	10,558.0	100.0	37.6	-90.00	-831.7	270.8	4,778.9	4,702.0	76.92	62.128	
16,300.0	10,559.0	10,558.0	10,558.0	101.6	37.6	-90.00	-831.7	270.8	4,878.4	4,801.4	76.97	63.377	
16,400.0	10,559.0	10,558.0	10,558.0	103.1	37.6	-90.00	-831.7	270.8	4,977.8	4,900.8	77.03	64.624	
16,500.0	10,559.0	10,558.0	10,558.0	104.6	37.6	-90.00	-831.7	270.8	5,077.3	5,000.2	77.08	65.868	
16,600.0	10,559.0	10,558.0	10,558.0	106.2	37.6	-90.00	-831.7	270.8	5,176.7	5,099.6	77.14	67.110	
16,700.0	10,559.0	10,558.0	10,558.0	107.7	37.6	-90.00	-831.7	270.8	5,276.2	5,199.0	77.20	68.349	
16,800.0	10,559.0	10,558.0	10,558.0	109.3	37.6	-90.00	-831.7	270.8	5,375.8	5,298.5	77.25	69.586	
16,900.0	10,559.0	10,558.0	10,558.0	110.8	37.6	-90.00	-831.7	270.8	5,475.3	5,398.0	77.31	70.820	
17,000.0	10,559.0	10,558.0	10,558.0	112.4	37.6	-90.00	-831.7	270.8	5,574.8	5,497.5	77.37	72.052	
17,100.0	10,559.0	10,558.0	10,558.0	113.9	37.6	-90.00	-831.7	270.8	5,674.4	5,597.0	77.43	73.281	
17,200.0	10,559.0	10,558.0	10,558.0	115.5	37.6	-90.00	-831.7	270.8	5,774.0	5,696.5	77.50	74.507	
17,300.0	10,559.0	10,558.0	10,558.0	117.1	37.6	-90.00	-831.7	270.8	5,873.6	5,796.0	77.56	75.730	
17,400.0	10,559.0	10,558.0	10,558.0	118.6	37.6	-90.00	-831.7	270.8	5,973.2	5,895.6	77.62	76.951	
17,500.0	10,559.0	10,558.0	10,558.0	120.2	37.6	-90.00	-831.7	270.8	6,072.8	5,995.1	77.69	78.169	
17,600.0	10,559.0	10,558.0	10,558.0	121.8	37.6	-90.00	-831.7	270.8	6,172.5	6,094.7	77.75	79.384	
17,700.0	10,559.0	10,558.0	10,558.0	123.3	37.6	-90.00	-831.7	270.8	6,272.1	6,194.3	77.82	80.596	
17,800.0	10,559.0	10,558.0	10,558.0	124.9	37.6	-90.00	-831.7	270.8	6,371.8	6,293.9	77.89	81.806	
17,900.0	10,559.0	10,558.0	10,558.0	126.5	37.6	-90.00	-831.7	270.8	6,471.5	6,393.5	77.96	83.012	
18,000.0	10,559.0	10,558.0	10,558.0	128.1	37.6	-90.00	-831.7	270.8	6,571.1	6,493.1	78.03	84.215	
18,100.0	10,559.0	10,558.0	10,558.0	129.7	37.6	-90.00	-831.7	270.8	6,670.8	6,592.7	78.10	85.416	
18,200.0	10,559.0	10,558.0	10,558.0	131.2	37.6	-90.00	-831.7	270.8	6,770.5	6,692.4	78.17	86.613	
18,300.0	10,559.0	10,558.0	10,558.0	132.8	37.6	-90.00	-831.7	270.8	6,870.2	6,792.0	78.24	87.807	
18,400.0	10,559.0	10,558.0	10,558.0	134.4	37.6	-90.00	-831.7	270.8	6,969.9	6,891.6	78.32	88.998	
18,500.0	10,559.0	10,558.0	10,558.0	136.0	37.6	-90.00	-831.7	270.8	7,069.7	6,991.3	78.39	90.186	
18,600.0	10,559.0	10,558.0	10,558.0	137.6	37.6	-90.00	-831.7	270.8	7,169.4	7,090.9	78.46	91.371	
18,700.0	10,559.0	10,558.0	10,558.0	139.2	37.6	-90.00	-831.7	270.8	7,269.1	7,190.6	78.54	92.553	
18,800.0	10,559.0	10,558.0	10,558.0	140.8	37.6	-90.00	-831.7	270.8	7,368.9	7,290.3	78.62	93.731	
18,900.0	10,559.0	10,558.0	10,558.0	142.4	37.6	-90.00	-831.7	270.8	7,468.6	7,389.9	78.69	94.906	
19,000.0	10,559.0	10,558.0	10,558.0	144.0	37.6	-90.00	-831.7	270.8	7,568.4	7,489.6	78.77	96.078	
19,100.0	10,559.0	10,558.0	10,558.0	145.6	37.6	-90.00	-831.7	270.8	7,668.2	7,589.3	78.85	97.247	
19,200.0	10,559.0	10,558.0	10,558.0	147.2	37.6	-90.00	-831.7	270.8	7,767.9	7,689.0	78.93	98.412	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 Flowers Federal SWD - Flowers SWD #3 - 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	10,559.0	10,558.0	10,558.0	148.7	37.6	-90.00	-831.7	270.8	7,867.7	7,788.7	79.01	99.574	
19,400.0	10,559.0	10,558.0	10,558.0	150.3	37.6	-90.00	-831.7	270.8	7,967.5	7,888.4	79.09	100.733	
19,500.0	10,559.0	10,558.0	10,558.0	151.9	37.6	-90.00	-831.7	270.8	8,067.3	7,988.1	79.18	101.889	
19,600.0	10,559.0	10,558.0	10,558.0	153.6	37.6	-90.00	-831.7	270.8	8,167.1	8,087.8	79.26	103.041	
19,700.0	10,559.0	10,558.0	10,558.0	155.2	37.6	-90.00	-831.7	270.8	8,266.9	8,187.5	79.34	104.189	
19,800.0	10,559.0	10,558.0	10,558.0	156.8	37.6	-90.00	-831.7	270.8	8,366.7	8,287.2	79.43	105.335	
19,900.0	10,559.0	10,558.0	10,558.0	158.4	37.6	-90.00	-831.7	270.8	8,466.5	8,387.0	79.52	106.476	
20,000.0	10,559.0	10,558.0	10,558.0	160.0	37.6	-90.00	-831.7	270.8	8,566.3	8,486.7	79.60	107.615	
20,100.0	10,559.0	10,558.0	10,558.0	161.6	37.6	-90.00	-831.7	270.8	8,666.1	8,586.4	79.69	108.750	
20,200.0	10,559.0	10,558.0	10,558.0	163.2	37.6	-90.00	-831.7	270.8	8,765.9	8,686.2	79.78	109.881	
20,300.0	10,559.0	10,558.0	10,558.0	164.8	37.6	-90.00	-831.7	270.8	8,865.8	8,785.9	79.87	111.009	
20,400.0	10,559.0	10,558.0	10,558.0	166.4	37.6	-90.00	-831.7	270.8	8,965.6	8,885.6	79.95	112.134	
20,500.0	10,559.0	10,558.0	10,558.0	168.0	37.6	-90.00	-831.7	270.8	9,065.4	8,985.4	80.04	113.255	
20,600.0	10,559.0	10,558.0	10,558.0	169.6	37.6	-90.00	-831.7	270.8	9,165.3	9,085.1	80.14	114.372	
20,700.0	10,559.0	10,558.0	10,558.0	171.2	37.6	-90.00	-831.7	270.8	9,265.1	9,184.9	80.23	115.486	
20,800.0	10,559.0	10,558.0	10,558.0	172.8	37.6	-90.00	-831.7	270.8	9,364.9	9,284.6	80.32	116.596	
20,900.0	10,559.0	10,558.0	10,558.0	174.5	37.6	-90.00	-831.7	270.8	9,464.8	9,384.4	80.41	117.703	
21,000.0	10,559.0	10,558.0	10,558.0	176.1	37.6	-90.00	-831.7	270.8	9,564.6	9,484.1	80.51	118.806	
21,100.0	10,559.0	10,558.0	10,558.0	177.7	37.6	-90.00	-831.7	270.8	9,664.5	9,583.9	80.60	119.906	
21,200.0	10,559.0	10,558.0	10,558.0	179.3	37.6	-90.00	-831.7	270.8	9,764.3	9,683.6	80.70	121.002	
21,300.0	10,559.0	10,558.0	10,558.0	180.9	37.6	-90.00	-831.7	270.8	9,864.2	9,783.4	80.79	122.094	
21,400.0	10,559.0	10,558.0	10,558.0	182.5	37.6	-90.00	-831.7	270.8	9,964.1	9,883.2	80.89	123.183	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #021H - 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	179.71	-29.8	0.2	29.8				
100.0	100.0	100.0	100.0	0.1	0.1	179.71	-29.8	0.2	29.8	29.6	0.26	116.387	
200.0	200.0	200.0	200.0	0.5	0.5	179.71	-29.8	0.2	29.8	28.9	0.97	30.651	
300.0	300.0	300.0	300.0	0.8	0.8	179.71	-29.8	0.2	29.8	28.1	1.69	17.649	
400.0	400.0	400.0	400.0	1.2	1.2	179.71	-29.8	0.2	29.8	27.4	2.41	12.393	
500.0	500.0	500.0	500.0	1.6	1.6	179.71	-29.8	0.2	29.8	26.7	3.12	9.549	
600.0	600.0	600.0	600.0	1.9	1.9	179.71	-29.8	0.2	29.8	26.0	3.84	7.766	
700.0	700.0	700.0	700.0	2.3	2.3	179.71	-29.8	0.2	29.8	25.3	4.56	6.545	
800.0	800.0	800.0	800.0	2.6	2.6	179.71	-29.8	0.2	29.8	24.6	5.27	5.655	
900.0	900.0	900.0	900.0	3.0	3.0	179.71	-29.8	0.2	29.8	23.8	5.99	4.979	
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	179.71	-29.8	0.2	29.8	23.1	6.71	4.447	
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	179.71	-29.8	0.2	29.8	22.4	7.43	4.017	
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	179.71	-29.8	0.2	29.8	21.7	8.14	3.664	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	179.71	-29.8	0.2	29.8	21.0	8.86	3.367	
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	179.71	-29.8	0.2	29.8	20.3	9.58	3.115	
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	179.71	-29.8	0.2	29.8	19.5	10.29	2.898	
1,600.0	1,600.0	1,600.5	1,600.5	5.5	5.5	-163.66	-28.9	0.1	29.8	18.8	11.01	2.706	
1,700.0	1,700.0	1,701.0	1,701.0	5.9	5.9	-164.96	-26.3	0.0	29.7	18.0	11.72	2.531	
1,800.0	1,799.9	1,801.6	1,801.4	6.2	6.2	-167.14	-21.9	-0.2	29.5	17.1	12.43	2.375	
1,900.0	1,899.7	1,902.1	1,901.7	6.6	6.6	-170.22	-15.7	-0.4	29.4	16.2	13.14	2.236	
1,989.3	1,988.7	1,991.8	1,991.2	6.9	6.9	-173.73	-8.8	-0.7	29.3	15.6	13.77	2.130	CC
2,000.0	1,999.4	2,002.5	2,001.9	6.9	6.9	-174.20	-7.8	-0.7	29.3	15.5	13.85	2.119	
2,100.0	2,098.9	2,103.0	2,101.9	7.3	7.3	-179.05	1.8	-1.1	29.5	14.9	14.55	2.025	
2,200.0	2,198.3	2,203.5	2,201.7	7.7	7.7	175.32	13.3	-1.5	29.9	14.6	15.25	1.959	ES
2,300.0	2,297.4	2,303.9	2,301.3	8.0	8.1	169.09	26.4	-2.0	30.7	14.7	15.96	1.924	
2,400.0	2,396.4	2,403.8	2,400.2	8.4	8.4	162.97	40.3	-2.6	32.0	15.3	16.70	1.917	
2,500.0	2,495.5	2,503.8	2,499.2	8.8	8.8	157.39	54.2	-3.1	33.7	16.2	17.44	1.929	
2,600.0	2,594.5	2,603.7	2,598.1	9.2	9.2	152.38	68.1	-3.6	35.6	17.4	18.20	1.955	
2,700.0	2,693.5	2,703.6	2,697.1	9.6	9.6	147.91	82.0	-4.2	37.8	18.8	18.96	1.992	
2,800.0	2,792.5	2,803.6	2,796.1	10.0	10.0	143.94	95.9	-4.7	40.1	20.4	19.73	2.034	
2,900.0	2,891.6	2,903.5	2,895.0	10.3	10.4	140.44	109.8	-5.3	42.7	22.2	20.51	2.082	
3,000.0	2,990.6	3,003.4	2,994.0	10.7	10.7	137.34	123.7	-5.8	45.4	24.1	21.29	2.132	
3,100.0	3,089.6	3,103.4	3,093.0	11.1	11.1	134.59	137.6	-6.3	48.2	26.1	22.07	2.183	
3,200.0	3,188.6	3,203.3	3,191.9	11.5	11.5	132.15	151.5	-6.9	51.1	28.2	22.86	2.235	
3,300.0	3,287.7	3,303.2	3,290.9	11.9	11.9	129.98	165.4	-7.4	54.1	30.4	23.66	2.286	
3,400.0	3,386.7	3,403.2	3,389.8	12.3	12.3	128.04	179.3	-8.0	57.1	32.7	24.46	2.336	
3,500.0	3,485.7	3,503.1	3,488.8	12.7	12.7	126.29	193.2	-8.5	60.3	35.0	25.26	2.386	
3,600.0	3,584.8	3,603.1	3,587.8	13.1	13.1	124.72	207.1	-9.0	63.4	37.4	26.06	2.434	
3,653.6	3,637.9	3,656.7	3,640.9	13.3	13.3	123.94	214.6	-9.3	65.1	38.7	26.49	2.459	
3,700.0	3,683.8	3,703.0	3,686.7	13.5	13.5	123.12	221.0	-9.6	66.5	39.6	26.87	2.475	
3,800.0	3,783.2	3,802.9	3,785.6	13.9	13.9	120.08	234.9	-10.1	68.4	40.8	27.69	2.472	
3,900.0	3,882.8	3,902.3	3,884.3	14.3	14.3	116.50	247.2	-10.6	69.7	41.2	28.50	2.447	
4,000.0	3,982.6	4,001.9	3,983.5	14.7	14.7	113.20	257.0	-11.0	70.6	41.3	29.28	2.412	
4,100.0	4,082.5	4,101.6	4,082.9	15.0	15.1	110.09	264.2	-11.2	71.1	41.0	30.04	2.366	
4,187.0	4,169.5	4,188.4	4,169.6	15.3	15.4	90.44	268.4	-11.4	71.1	40.4	30.67	2.318	
4,200.0	4,182.5	4,201.4	4,182.6	15.4	15.4	90.07	268.9	-11.4	71.1	40.3	30.76	2.311	
4,300.0	4,282.5	4,301.4	4,282.5	15.7	15.8	88.45	270.9	-11.5	71.0	39.6	31.47	2.257	
4,344.8	4,327.3	4,346.2	4,327.3	15.9	16.0	88.37	271.0	-11.5	71.0	39.3	31.78	2.235	
4,400.0	4,382.5	4,401.4	4,382.5	16.1	16.1	88.37	271.0	-11.5	71.0	38.9	32.15	2.209	
4,500.0	4,482.5	4,501.4	4,482.5	16.4	16.5	88.37	271.0	-11.5	71.0	38.2	32.84	2.163	
4,600.0	4,582.5	4,601.4	4,582.5	16.7	16.8	88.37	271.0	-11.5	71.0	37.5	33.53	2.119	
4,700.0	4,682.5	4,701.4	4,682.5	17.1	17.2	88.37	271.0	-11.5	71.0	36.8	34.22	2.076	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #021H - Wellbore #1 - BLM Plan #1

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.0	4,782.5	4,801.4	4,782.5	17.4	17.5	88.37	271.0	-11.5	71.0	36.1	34.91	2.035	
4,900.0	4,882.5	4,901.4	4,882.5	17.8	17.9	88.37	271.0	-11.5	71.0	35.4	35.60	1.995	
5,000.0	4,982.5	5,001.4	4,982.5	18.1	18.2	88.37	271.0	-11.5	71.0	34.7	36.29	1.957	
5,100.0	5,082.5	5,101.4	5,082.5	18.5	18.5	88.37	271.0	-11.5	71.0	34.0	36.98	1.921	
5,200.0	5,182.5	5,201.4	5,182.5	18.8	18.9	88.37	271.0	-11.5	71.0	33.4	37.68	1.885	
5,300.0	5,282.5	5,301.4	5,282.5	19.2	19.2	88.37	271.0	-11.5	71.0	32.7	38.37	1.851	
5,400.0	5,382.5	5,401.4	5,382.5	19.5	19.6	88.37	271.0	-11.5	71.0	32.0	39.07	1.818	
5,500.0	5,482.5	5,501.4	5,482.5	19.9	19.9	88.37	271.0	-11.5	71.0	31.3	39.76	1.786	
5,600.0	5,582.5	5,601.4	5,582.5	20.2	20.3	88.37	271.0	-11.5	71.0	30.6	40.46	1.756	
5,700.0	5,682.5	5,701.4	5,682.5	20.6	20.6	88.37	271.0	-11.5	71.0	29.9	41.16	1.726	
5,800.0	5,782.5	5,801.4	5,782.5	20.9	21.0	88.37	271.0	-11.5	71.0	29.2	41.86	1.697	
5,900.0	5,882.5	5,901.4	5,882.5	21.3	21.3	88.37	271.0	-11.5	71.0	28.5	42.56	1.669	
6,000.0	5,982.5	6,001.4	5,982.5	21.6	21.7	88.37	271.0	-11.5	71.0	27.8	43.26	1.642	
6,100.0	6,082.5	6,101.4	6,082.5	22.0	22.0	88.37	271.0	-11.5	71.0	27.1	43.96	1.616	
6,200.0	6,182.5	6,201.4	6,182.5	22.3	22.4	88.37	271.0	-11.5	71.0	26.4	44.66	1.591	
6,300.0	6,282.5	6,301.4	6,282.5	22.7	22.7	88.37	271.0	-11.5	71.0	25.7	45.36	1.566	
6,400.0	6,382.5	6,401.4	6,382.5	23.0	23.1	88.37	271.0	-11.5	71.0	25.0	46.06	1.542	
6,500.0	6,482.5	6,501.4	6,482.5	23.4	23.4	88.37	271.0	-11.5	71.0	24.3	46.76	1.519	
6,600.0	6,582.5	6,601.4	6,582.5	23.7	23.8	88.37	271.0	-11.5	71.0	23.6	47.47	1.497	Level 3
6,700.0	6,682.5	6,701.4	6,682.5	24.1	24.1	88.37	271.0	-11.5	71.0	22.9	48.17	1.475	Level 3
6,800.0	6,782.5	6,801.4	6,782.5	24.4	24.5	88.37	271.0	-11.5	71.0	22.2	48.87	1.453	Level 3
6,900.0	6,882.5	6,901.4	6,882.5	24.8	24.8	88.37	271.0	-11.5	71.0	21.5	49.58	1.433	Level 3
7,000.0	6,982.5	7,001.4	6,982.5	25.1	25.2	88.37	271.0	-11.5	71.0	20.8	50.28	1.413	Level 3
7,003.5	6,986.0	7,004.9	6,986.0	25.1	25.2	88.37	271.0	-11.5	71.0	20.7	50.30	1.412	Level 3, SF
7,100.0	7,082.5	7,099.8	7,080.6	25.5	25.5	93.61	264.4	-10.8	71.9	21.0	50.89	1.413	Level 3
7,200.0	7,182.5	7,193.3	7,171.4	25.8	25.7	109.32	243.0	-8.4	79.3	28.5	50.80	1.561	
7,300.0	7,282.5	7,277.8	7,249.6	26.2	25.9	126.68	211.2	-4.9	102.2	53.4	48.80	2.094	
7,400.0	7,382.5	7,351.6	7,313.3	26.5	26.1	139.20	174.3	-0.8	142.9	97.4	45.43	3.145	
7,500.0	7,482.5	7,414.5	7,363.6	26.9	26.2	147.02	136.7	3.3	197.5	155.6	41.93	4.710	
7,600.0	7,582.5	7,467.7	7,402.5	27.3	26.3	151.90	100.8	7.3	262.2	223.4	38.76	6.764	
7,700.0	7,682.5	7,512.4	7,432.6	27.6	26.4	155.08	67.9	10.9	334.1	298.0	36.01	9.276	
7,800.0	7,782.5	7,550.0	7,455.8	28.0	26.4	157.24	38.5	14.2	411.3	377.6	33.65	12.222	
7,900.0	7,882.5	7,582.1	7,474.1	28.3	26.5	158.80	12.3	17.1	492.5	460.9	31.67	15.552	
8,000.0	7,982.5	7,600.0	7,483.6	28.7	26.5	159.57	-2.8	18.7	577.0	547.7	29.34	19.663	
8,100.0	8,082.5	7,632.9	7,499.9	29.0	26.6	160.83	-31.2	21.9	663.6	635.0	28.58	23.222	
8,200.0	8,182.5	7,650.0	7,507.7	29.4	26.6	161.41	-46.3	23.5	752.3	725.1	27.22	27.636	
8,300.0	8,282.5	7,671.0	7,516.7	29.7	26.7	162.07	-65.2	25.6	842.5	816.1	26.41	31.906	
8,400.0	8,382.5	7,700.0	7,527.9	30.1	26.8	162.89	-91.8	28.5	934.3	908.1	26.15	35.721	
8,500.0	8,482.5	7,700.0	7,527.9	30.4	26.8	162.89	-91.8	28.5	1,026.5	1,001.7	24.88	41.255	
8,600.0	8,582.5	7,700.0	7,527.9	30.8	26.8	162.89	-91.8	28.5	1,120.1	1,096.2	23.90	46.877	
8,700.0	8,682.5	7,723.7	7,536.0	31.1	26.8	163.49	-113.9	31.0	1,214.0	1,190.2	23.87	50.852	
8,800.0	8,782.5	7,733.6	7,539.1	31.5	26.8	163.72	-123.2	32.0	1,308.8	1,285.3	23.50	55.692	
8,900.0	8,882.5	7,750.0	7,544.0	31.9	26.9	164.09	-138.8	33.7	1,404.1	1,380.7	23.40	59.999	
9,000.0	8,982.5	7,750.0	7,544.0	32.2	26.9	164.09	-138.8	33.7	1,499.7	1,476.8	22.95	65.338	
9,100.0	9,082.5	7,750.0	7,544.0	32.6	26.9	164.09	-138.8	33.7	1,595.9	1,573.3	22.61	70.580	
9,200.0	9,182.5	7,750.0	7,544.0	32.9	26.9	164.09	-138.8	33.7	1,692.5	1,670.1	22.36	75.704	
9,300.0	9,282.5	7,771.0	7,549.5	33.3	27.0	164.52	-158.9	36.0	1,789.0	1,766.4	22.58	79.219	
9,400.0	9,382.5	7,776.7	7,550.8	33.6	27.0	164.64	-164.4	36.6	1,886.0	1,863.4	22.54	83.681	
9,500.0	9,482.5	7,800.0	7,555.9	34.0	27.0	165.07	-187.0	39.1	1,983.6	1,960.7	22.84	86.848	
9,600.0	9,582.5	7,800.0	7,555.9	34.3	27.0	165.07	-187.0	39.1	2,080.8	2,058.1	22.76	91.433	
9,700.0	9,682.5	7,800.0	7,555.9	34.7	27.0	165.07	-187.0	39.1	2,178.4	2,155.6	22.72	95.878	
9,800.0	9,782.5	7,800.0	7,555.9	35.1	27.0	165.07	-187.0	39.1	2,276.1	2,253.4	22.72	100.183	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #021H - 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	9,882.5	7,800.0	7,555.9	35.4	27.0	165.07	-187.0	39.1	2,374.0	2,351.3	22.75	104.346	
10,000.0	9,982.5	7,800.0	7,555.9	35.8	27.0	165.07	-187.0	39.1	2,472.1	2,449.3	22.81	108.368	
10,003.5	9,986.0	7,800.0	7,555.9	35.8	27.0	165.07	-187.0	39.1	2,475.5	2,452.7	22.81	108.507	
10,050.0	10,032.4	7,800.0	7,555.9	35.9	27.0	-18.57	-187.0	39.1	2,520.8	2,498.0	22.83	110.402	
10,100.0	10,082.0	7,800.0	7,555.9	36.1	27.0	-14.06	-187.0	39.1	2,568.5	2,545.7	22.82	112.540	
10,150.0	10,130.9	7,800.0	7,555.9	36.2	27.0	-11.31	-187.0	39.1	2,615.0	2,592.2	22.79	114.745	
10,200.0	10,178.7	7,800.0	7,555.9	36.4	27.0	-9.48	-187.0	39.1	2,659.8	2,637.1	22.74	116.989	
10,250.0	10,225.0	7,819.9	7,559.4	36.5	27.1	-8.32	-206.5	41.2	2,702.4	2,679.5	22.88	118.103	
10,300.0	10,269.4	7,824.9	7,560.2	36.6	27.1	-7.40	-211.4	41.7	2,743.1	2,720.3	22.84	120.085	
10,350.0	10,311.8	7,850.0	7,563.5	36.7	27.2	-6.83	-236.1	44.5	2,781.9	2,758.9	23.00	120.962	
10,400.0	10,351.6	7,850.0	7,563.5	36.8	27.2	-6.25	-236.1	44.5	2,817.5	2,794.6	22.88	123.117	
10,450.0	10,388.7	7,850.0	7,563.5	36.9	27.2	-5.79	-236.1	44.5	2,850.3	2,827.6	22.78	125.145	
10,500.0	10,422.7	7,850.0	7,563.5	37.0	27.2	-5.43	-236.1	44.5	2,880.4	2,857.7	22.68	127.001	
10,550.0	10,453.3	7,850.0	7,563.5	37.1	27.2	-5.13	-236.1	44.5	2,907.5	2,884.9	22.60	128.636	
10,600.0	10,480.4	7,850.0	7,563.5	37.2	27.2	-4.89	-236.1	44.5	2,931.4	2,908.9	22.55	130.004	
10,650.0	10,503.8	7,850.0	7,563.5	37.3	27.2	-4.70	-236.1	44.5	2,952.2	2,929.7	22.53	131.057	
10,700.0	10,523.2	7,876.8	7,565.8	37.4	27.3	-4.70	-262.7	47.4	2,968.9	2,946.2	22.70	130.817	
10,750.0	10,538.5	7,900.0	7,566.8	37.5	27.4	-4.72	-285.7	50.0	2,982.8	2,960.0	22.85	130.515	
10,800.0	10,549.6	7,900.0	7,566.8	37.6	27.4	-4.63	-285.7	50.0	2,992.7	2,969.8	22.91	130.613	
10,850.0	10,556.5	7,900.0	7,566.8	37.7	27.4	-4.58	-285.7	50.0	2,999.2	2,976.1	23.02	130.292	
10,900.0	10,558.9	7,907.1	7,566.9	37.9	27.4	-4.60	-292.8	50.7	3,002.0	2,978.8	23.20	129.412	
10,903.5	10,559.0	7,907.6	7,566.9	37.9	27.4	-4.60	-293.3	50.8	3,002.1	2,978.9	23.21	129.337	
11,000.0	10,559.0	7,979.0	7,567.0	38.2	27.7	-5.01	-364.3	57.9	3,004.2	2,980.4	23.83	126.068	
11,100.0	10,559.0	8,087.4	7,567.0	38.5	28.2	-5.49	-472.4	65.2	3,006.2	2,981.6	24.65	121.974	
11,200.0	10,559.0	8,197.9	7,567.0	38.9	28.8	-5.81	-582.9	68.5	3,007.6	2,982.1	25.53	117.806	
11,300.0	10,559.0	8,298.6	7,567.0	39.4	29.4	-5.99	-683.6	69.2	3,008.5	2,982.1	26.42	113.860	
11,400.0	10,559.0	8,401.5	7,567.0	40.0	30.2	-6.09	-783.5	69.9	3,009.0	2,981.6	27.38	109.904	
11,488.5	10,559.0	8,487.0	7,567.0	40.5	30.8	-6.12	-872.0	70.6	3,009.1	2,980.9	28.23	106.603	
11,500.0	10,559.0	8,501.5	7,567.0	40.5	31.0	-6.12	-883.5	70.6	3,009.1	2,980.8	28.36	106.107	
11,600.0	10,559.0	8,601.5	7,567.0	41.2	31.8	-6.12	-983.5	71.3	3,009.1	2,979.8	29.39	102.400	
11,700.0	10,559.0	8,701.5	7,567.0	41.9	32.7	-6.12	-1,083.5	72.0	3,009.1	2,978.7	30.46	98.790	
11,800.0	10,559.0	8,801.5	7,567.0	42.6	33.7	-6.12	-1,183.5	72.7	3,009.2	2,977.6	31.58	95.297	
11,900.0	10,559.0	8,901.5	7,567.0	43.4	34.7	-6.12	-1,283.5	73.4	3,009.2	2,976.4	32.73	91.936	
12,000.0	10,559.0	9,001.5	7,567.0	44.3	35.8	-6.12	-1,383.5	74.1	3,009.2	2,975.2	33.92	88.715	
12,100.0	10,559.0	9,101.5	7,567.0	45.2	36.9	-6.12	-1,483.5	74.8	3,009.2	2,974.0	35.14	85.636	
12,200.0	10,559.0	9,201.5	7,567.0	46.1	38.1	-6.12	-1,583.5	75.5	3,009.2	2,972.8	36.39	82.700	
12,300.0	10,559.0	9,301.5	7,567.0	47.1	39.2	-6.12	-1,683.5	76.2	3,009.2	2,971.5	37.66	79.906	
12,400.0	10,559.0	9,401.5	7,567.0	48.1	40.5	-6.12	-1,783.5	76.9	3,009.2	2,970.2	38.95	77.248	
12,500.0	10,559.0	9,501.5	7,567.0	49.1	41.7	-6.12	-1,883.5	77.7	3,009.2	2,968.9	40.27	74.724	
12,600.0	10,559.0	9,601.5	7,567.0	50.2	43.0	-6.12	-1,983.5	78.4	3,009.2	2,967.5	41.61	72.326	
12,700.0	10,559.0	9,701.5	7,567.0	51.3	44.3	-6.12	-2,083.5	79.1	3,009.2	2,966.2	42.96	70.049	
12,800.0	10,559.0	9,801.5	7,567.0	52.4	45.6	-6.12	-2,183.5	79.8	3,009.2	2,964.8	44.33	67.888	
12,900.0	10,559.0	9,901.5	7,567.0	53.6	47.0	-6.12	-2,283.5	80.5	3,009.2	2,963.4	45.71	65.835	
13,000.0	10,559.0	10,001.5	7,567.0	54.8	48.3	-6.12	-2,383.5	81.2	3,009.2	2,962.1	47.10	63.884	
13,100.0	10,559.0	10,101.5	7,567.0	56.0	49.7	-6.12	-2,483.5	81.9	3,009.2	2,960.6	48.51	62.031	
13,200.0	10,559.0	10,201.5	7,567.0	57.2	51.1	-6.12	-2,583.5	82.6	3,009.2	2,959.2	49.93	60.268	
13,300.0	10,559.0	10,301.5	7,567.0	58.5	52.5	-6.12	-2,683.5	83.3	3,009.2	2,957.8	51.36	58.591	
13,400.0	10,559.0	10,401.5	7,567.0	59.8	54.0	-6.12	-2,783.5	84.0	3,009.2	2,956.4	52.80	56.995	
13,500.0	10,559.0	10,501.5	7,567.0	61.0	55.4	-6.12	-2,883.5	84.7	3,009.2	2,954.9	54.24	55.475	
13,600.0	10,559.0	10,601.5	7,567.0	62.4	56.8	-6.12	-2,983.4	85.4	3,009.2	2,953.5	55.70	54.025	
13,700.0	10,559.0	10,701.5	7,567.0	63.7	58.3	-6.12	-3,083.4	86.1	3,009.2	2,952.0	57.16	52.643	
13,800.0	10,559.0	10,801.5	7,567.0	65.0	59.8	-6.12	-3,183.4	86.8	3,009.2	2,950.5	58.63	51.324	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #021H - 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	10,559.0	10,901.5	7,567.0	66.4	61.3	-6.12	-3,283.4	87.5	3,009.2	2,949.1	60.11	50.063	
14,000.0	10,559.0	11,001.5	7,567.0	67.7	62.8	-6.12	-3,383.4	88.2	3,009.2	2,947.6	61.59	48.859	
14,100.0	10,559.0	11,101.5	7,567.0	69.1	64.3	-6.12	-3,483.4	88.9	3,009.2	2,946.1	63.08	47.706	
14,200.0	10,559.0	11,201.5	7,567.0	70.5	65.8	-6.12	-3,583.4	89.6	3,009.2	2,944.6	64.57	46.603	
14,300.0	10,559.0	11,301.5	7,567.0	71.9	67.3	-6.12	-3,683.4	90.3	3,009.2	2,943.1	66.07	45.547	
14,400.0	10,559.0	11,401.5	7,567.0	73.3	68.8	-6.12	-3,783.4	91.0	3,009.2	2,941.6	67.57	44.534	
14,500.0	10,559.0	11,501.5	7,567.0	74.8	70.3	-6.12	-3,883.4	91.7	3,009.2	2,940.1	69.08	43.563	
14,600.0	10,559.0	11,601.5	7,567.0	76.2	71.8	-6.12	-3,983.4	92.4	3,009.2	2,938.6	70.59	42.630	
14,700.0	10,559.0	11,701.5	7,567.0	77.6	73.4	-6.12	-4,083.4	93.1	3,009.2	2,937.1	72.10	41.735	
14,800.0	10,559.0	11,801.5	7,567.0	79.1	74.9	-6.12	-4,183.4	93.8	3,009.2	2,935.5	73.62	40.874	
14,900.0	10,559.0	11,901.5	7,567.0	80.5	76.5	-6.12	-4,283.4	94.5	3,009.2	2,934.0	75.14	40.047	
15,000.0	10,559.0	12,001.5	7,567.0	82.0	78.0	-6.12	-4,383.4	95.2	3,009.2	2,932.5	76.67	39.250	
15,100.0	10,559.0	12,101.5	7,567.0	83.5	79.6	-6.12	-4,483.4	95.9	3,009.2	2,931.0	78.19	38.484	
15,200.0	10,559.0	12,201.5	7,567.0	84.9	81.1	-6.12	-4,583.4	96.6	3,009.2	2,929.4	79.72	37.745	
15,300.0	10,559.0	12,301.5	7,567.0	86.4	82.7	-6.12	-4,683.4	97.3	3,009.2	2,927.9	81.26	37.033	
15,400.0	10,559.0	12,401.5	7,567.0	87.9	84.2	-6.12	-4,783.4	98.0	3,009.2	2,926.4	82.79	36.346	
15,500.0	10,559.0	12,501.5	7,567.0	89.4	85.8	-6.12	-4,883.4	98.7	3,009.2	2,924.8	84.33	35.683	
15,600.0	10,559.0	12,601.5	7,567.0	90.9	87.4	-6.12	-4,983.4	99.4	3,009.2	2,923.3	85.87	35.043	
15,700.0	10,559.0	12,701.5	7,567.0	92.4	89.0	-6.12	-5,083.4	100.1	3,009.2	2,921.8	87.41	34.425	
15,800.0	10,559.0	12,801.5	7,567.0	93.9	90.5	-6.12	-5,183.4	100.8	3,009.2	2,920.2	88.96	33.828	
15,900.0	10,559.0	12,901.5	7,567.0	95.5	92.1	-6.12	-5,283.4	101.5	3,009.2	2,918.7	90.50	33.250	
16,000.0	10,559.0	13,001.5	7,567.0	97.0	93.7	-6.12	-5,383.4	102.2	3,009.2	2,917.1	92.05	32.690	
16,100.0	10,559.0	13,101.5	7,567.0	98.5	95.3	-6.12	-5,483.4	102.9	3,009.2	2,915.6	93.60	32.149	
16,200.0	10,559.0	13,201.5	7,567.0	100.0	96.9	-6.12	-5,583.4	103.6	3,009.2	2,914.0	95.15	31.625	
16,300.0	10,559.0	13,301.5	7,567.0	101.6	98.5	-6.12	-5,683.4	104.3	3,009.2	2,912.5	96.70	31.117	
16,400.0	10,559.0	13,401.5	7,567.0	103.1	100.0	-6.12	-5,783.4	105.0	3,009.2	2,910.9	98.26	30.625	
16,500.0	10,559.0	13,501.5	7,567.0	104.6	101.6	-6.12	-5,883.4	105.7	3,009.2	2,909.4	99.81	30.148	
16,600.0	10,559.0	13,601.5	7,567.0	106.2	103.2	-6.12	-5,983.4	106.4	3,009.2	2,907.8	101.37	29.685	
16,700.0	10,559.0	13,701.5	7,567.0	107.7	104.8	-6.12	-6,083.4	107.1	3,009.2	2,906.2	102.93	29.235	
16,800.0	10,559.0	13,801.5	7,567.0	109.3	106.4	-6.12	-6,183.4	107.8	3,009.2	2,904.7	104.49	28.799	
16,900.0	10,559.0	13,901.5	7,567.0	110.8	108.0	-6.12	-6,283.4	108.5	3,009.2	2,903.1	106.05	28.375	
17,000.0	10,559.0	14,001.5	7,567.0	112.4	109.6	-6.12	-6,383.4	109.2	3,009.2	2,901.6	107.61	27.963	
17,100.0	10,559.0	14,101.5	7,567.0	113.9	111.2	-6.12	-6,483.4	109.9	3,009.2	2,900.0	109.18	27.562	
17,200.0	10,559.0	14,201.5	7,567.0	115.5	112.8	-6.12	-6,583.4	110.6	3,009.2	2,898.4	110.74	27.173	
17,300.0	10,559.0	14,301.5	7,567.0	117.1	114.4	-6.12	-6,683.4	111.3	3,009.2	2,896.9	112.31	26.794	
17,400.0	10,559.0	14,401.5	7,567.0	118.6	116.1	-6.12	-6,783.4	112.0	3,009.2	2,895.3	113.87	26.426	
17,500.0	10,559.0	14,501.5	7,567.0	120.2	117.7	-6.12	-6,883.4	112.7	3,009.2	2,893.7	115.44	26.067	
17,600.0	10,559.0	14,601.5	7,567.0	121.8	119.3	-6.12	-6,983.4	113.4	3,009.2	2,892.2	117.01	25.718	
17,700.0	10,559.0	14,701.5	7,567.0	123.3	120.9	-6.12	-7,083.3	114.1	3,009.2	2,890.6	118.58	25.378	
17,800.0	10,559.0	14,801.5	7,567.0	124.9	122.5	-6.13	-7,183.3	114.8	3,009.2	2,889.0	120.15	25.046	
17,900.0	10,559.0	14,901.5	7,567.0	126.5	124.1	-6.13	-7,283.3	115.5	3,009.2	2,887.5	121.72	24.723	
18,000.0	10,559.0	15,001.5	7,567.0	128.1	125.7	-6.13	-7,383.3	116.2	3,009.2	2,885.9	123.29	24.408	
18,100.0	10,559.0	15,101.5	7,567.0	129.7	127.3	-6.13	-7,483.3	116.9	3,009.2	2,884.3	124.86	24.100	
18,200.0	10,559.0	15,201.5	7,567.0	131.2	128.9	-6.13	-7,583.3	117.6	3,009.2	2,882.7	126.43	23.801	
18,300.0	10,559.0	15,301.5	7,567.0	132.8	130.6	-6.13	-7,683.3	118.3	3,009.2	2,881.2	128.01	23.508	
18,400.0	10,559.0	15,401.5	7,567.0	134.4	132.2	-6.13	-7,783.3	119.0	3,009.2	2,879.6	129.58	23.222	
18,500.0	10,559.0	15,501.5	7,567.0	136.0	133.8	-6.13	-7,883.3	119.7	3,009.2	2,878.0	131.16	22.944	
18,600.0	10,559.0	15,601.5	7,567.0	137.6	135.4	-6.13	-7,983.3	120.4	3,009.2	2,876.5	132.73	22.671	
18,700.0	10,559.0	15,701.5	7,567.0	139.2	137.0	-6.13	-8,083.3	121.1	3,009.2	2,874.9	134.31	22.405	
18,800.0	10,559.0	15,801.5	7,567.0	140.8	138.7	-6.13	-8,183.3	121.8	3,009.2	2,873.3	135.88	22.145	
18,900.0	10,559.0	15,901.5	7,567.0	142.4	140.3	-6.13	-8,283.3	122.5	3,009.2	2,871.7	137.46	21.891	
19,000.0	10,559.0	16,001.5	7,567.0	144.0	141.9	-6.13	-8,383.3	123.2	3,009.2	2,870.1	139.04	21.643	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #021H - 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	10,559.0	16,101.5	7,567.0	145.6	143.5	-6.13	-8,483.3	123.9	3,009.2	2,868.6	140.62	21.400	
19,200.0	10,559.0	16,201.5	7,567.0	147.2	145.1	-6.13	-8,583.3	124.6	3,009.2	2,867.0	142.19	21.162	
19,300.0	10,559.0	16,301.5	7,567.0	148.7	146.8	-6.13	-8,683.3	125.3	3,009.2	2,865.4	143.77	20.930	
19,400.0	10,559.0	16,401.5	7,567.0	150.3	148.4	-6.13	-8,783.3	126.0	3,009.2	2,863.8	145.35	20.703	
19,500.0	10,559.0	16,501.5	7,567.0	151.9	150.0	-6.13	-8,883.3	126.7	3,009.2	2,862.3	146.93	20.480	
19,600.0	10,559.0	16,601.5	7,567.0	153.6	151.7	-6.13	-8,983.3	127.4	3,009.2	2,860.7	148.51	20.262	
19,700.0	10,559.0	16,701.5	7,567.0	155.2	153.3	-6.13	-9,083.3	128.1	3,009.2	2,859.1	150.09	20.049	
19,800.0	10,559.0	16,798.5	7,567.0	156.8	154.9	-6.13	-9,183.3	128.8	3,009.2	2,857.5	151.65	19.843	
19,900.0	10,559.0	16,901.5	7,567.0	158.4	156.5	-6.13	-9,283.3	129.5	3,009.2	2,855.9	153.26	19.635	
20,000.0	10,559.0	17,001.5	7,567.0	160.0	158.2	-6.13	-9,383.3	130.2	3,009.2	2,854.3	154.84	19.434	
20,100.0	10,559.0	17,101.5	7,567.0	161.6	159.8	-6.13	-9,483.3	130.9	3,009.2	2,852.8	156.42	19.238	
20,200.0	10,559.0	17,201.5	7,567.0	163.2	161.4	-6.13	-9,583.3	131.6	3,009.2	2,851.2	158.00	19.045	
20,300.0	10,559.0	17,301.5	7,567.0	164.8	163.0	-6.13	-9,683.3	132.3	3,009.2	2,849.6	159.59	18.856	
20,400.0	10,559.0	17,401.5	7,567.0	166.4	164.7	-6.13	-9,783.3	133.0	3,009.2	2,848.0	161.17	18.671	
20,500.0	10,559.0	17,501.5	7,567.0	168.0	166.3	-6.13	-9,883.3	133.7	3,009.2	2,846.4	162.75	18.489	
20,600.0	10,559.0	17,601.5	7,567.0	169.6	167.9	-6.13	-9,983.3	134.4	3,009.2	2,844.9	164.34	18.311	
20,700.0	10,559.0	17,701.5	7,567.0	171.2	169.6	-6.13	-10,083.3	135.1	3,009.2	2,843.3	165.92	18.136	
20,800.0	10,559.0	17,801.5	7,567.0	172.8	171.2	-6.13	-10,183.3	135.8	3,009.2	2,841.7	167.51	17.964	
20,900.0	10,559.0	17,901.5	7,567.0	174.5	172.8	-6.13	-10,283.3	136.5	3,009.2	2,840.1	169.09	17.796	
21,000.0	10,559.0	18,001.5	7,567.0	176.1	174.5	-6.13	-10,383.3	137.2	3,009.2	2,838.5	170.68	17.631	
21,100.0	10,559.0	18,101.5	7,567.0	177.7	176.1	-6.13	-10,483.3	138.0	3,009.2	2,836.9	172.26	17.469	
21,200.0	10,559.0	18,201.5	7,567.0	179.3	177.7	-6.13	-10,583.3	138.7	3,009.2	2,835.3	173.85	17.309	
21,300.0	10,559.0	18,301.5	7,567.0	180.9	179.4	-6.13	-10,683.3	139.4	3,009.2	2,833.8	175.44	17.153	
21,400.0	10,559.0	18,401.5	7,567.0	182.5	181.0	-6.13	-10,783.3	140.1	3,009.2	2,832.2	177.02	16.999	
21,500.0	10,559.0	18,501.5	7,567.0	184.2	182.6	-6.13	-10,883.3	140.8	3,009.2	2,830.6	178.61	16.848	
21,600.0	10,559.0	18,601.5	7,567.0	185.8	184.3	-6.13	-10,983.3	141.5	3,009.2	2,829.0	180.20	16.700	
21,700.0	10,559.0	18,701.5	7,567.0	187.4	185.9	-6.13	-11,083.2	142.2	3,009.2	2,827.4	181.78	16.554	
21,800.0	10,559.0	18,801.5	7,567.0	189.0	187.5	-6.13	-11,183.2	142.9	3,009.2	2,825.8	183.37	16.410	
21,900.0	10,559.0	18,901.5	7,567.0	190.6	189.2	-6.13	-11,283.2	143.6	3,009.2	2,824.2	184.96	16.270	
22,000.0	10,559.0	19,001.5	7,567.0	192.3	190.8	-6.13	-11,383.2	144.3	3,009.2	2,822.7	186.55	16.131	
22,100.0	10,559.0	19,101.5	7,567.0	193.9	192.4	-6.13	-11,483.2	145.0	3,009.2	2,821.1	188.13	15.995	
22,200.0	10,559.0	19,201.5	7,567.0	195.5	194.1	-6.13	-11,583.2	145.7	3,009.2	2,819.5	189.72	15.861	
22,300.0	10,559.0	19,301.5	7,567.0	197.1	195.7	-6.13	-11,683.2	146.4	3,009.2	2,817.9	191.31	15.729	
22,400.0	10,559.0	19,401.5	7,567.0	198.7	197.4	-6.13	-11,783.2	147.1	3,009.2	2,816.3	192.90	15.600	
22,500.0	10,559.0	19,501.5	7,567.0	200.4	199.0	-6.13	-11,883.2	147.8	3,009.2	2,814.7	194.49	15.472	
22,600.0	10,559.0	19,601.5	7,567.0	202.0	200.6	-6.13	-11,983.2	148.5	3,009.2	2,813.1	196.08	15.347	
22,700.0	10,559.0	19,701.5	7,567.0	203.6	202.3	-6.13	-12,083.2	149.2	3,009.2	2,811.5	197.67	15.224	
22,800.0	10,559.0	19,801.5	7,567.0	205.2	203.9	-6.13	-12,183.2	149.9	3,009.2	2,809.9	199.26	15.102	
22,900.0	10,559.0	19,901.5	7,567.0	206.9	205.5	-6.13	-12,283.2	150.6	3,009.2	2,808.4	200.85	14.983	
23,000.0	10,559.0	20,001.5	7,567.0	208.5	207.2	-6.13	-12,383.2	151.3	3,009.2	2,806.8	202.43	14.865	
23,028.2	10,559.0	20,026.7	7,567.0	208.9	207.5	-6.13	-12,411.4	151.5	3,009.2	2,806.4	202.76	14.841	
23,028.8	10,559.0	20,027.3	7,567.0	209.0	207.6	-6.13	-12,412.0	151.5	3,009.2	2,806.4	202.76	14.841	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #101H - 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	-90.24	-0.3	-80.0	80.0				
100.0	100.0	101.0	101.0	0.1	0.1	-90.24	-0.3	-80.0	80.0	79.8	0.26	307.889	
200.0	200.0	201.0	201.0	0.5	0.5	-90.24	-0.3	-80.0	80.0	79.0	0.98	81.916	
300.0	300.0	301.0	301.0	0.8	0.8	-90.24	-0.3	-80.0	80.0	78.3	1.69	47.242	
400.0	400.0	401.0	401.0	1.2	1.2	-90.24	-0.3	-80.0	80.0	77.6	2.41	33.193	
500.0	500.0	501.0	501.0	1.6	1.6	-90.24	-0.3	-80.0	80.0	76.9	3.13	25.584	
600.0	600.0	601.0	601.0	1.9	1.9	-90.24	-0.3	-80.0	80.0	76.2	3.84	20.813	
700.0	700.0	701.0	701.0	2.3	2.3	-90.24	-0.3	-80.0	80.0	75.5	4.56	17.542	
800.0	800.0	801.0	801.0	2.6	2.6	-90.24	-0.3	-80.0	80.0	74.7	5.28	15.159	
900.0	900.0	901.0	901.0	3.0	3.0	-90.24	-0.3	-80.0	80.0	74.0	6.00	13.346	
1,000.0	1,000.0	1,001.0	1,001.0	3.4	3.4	-90.24	-0.3	-80.0	80.0	73.3	6.71	11.921	
1,100.0	1,100.0	1,101.0	1,101.0	3.7	3.7	-90.24	-0.3	-80.0	80.0	72.6	7.43	10.771	
1,200.0	1,200.0	1,201.0	1,201.0	4.1	4.1	-90.24	-0.3	-80.0	80.0	71.9	8.15	9.823	
1,300.0	1,300.0	1,301.0	1,301.0	4.4	4.4	-90.24	-0.3	-80.0	80.0	71.2	8.86	9.028	
1,400.0	1,400.0	1,401.0	1,401.0	4.8	4.8	-90.24	-0.3	-80.0	80.0	70.4	9.58	8.352	
1,500.0	1,500.0	1,501.0	1,501.0	5.1	5.2	-90.24	-0.3	-80.0	80.0	69.7	10.30	7.771	CC
1,600.0	1,600.0	1,600.2	1,600.2	5.5	5.5	-73.25	0.4	-80.5	80.2	69.2	11.01	7.290	
1,700.0	1,700.0	1,699.5	1,699.4	5.9	5.9	-73.46	2.6	-81.9	80.9	69.2	11.72	6.906	ES
1,800.0	1,799.9	1,798.7	1,798.6	6.2	6.2	-73.82	6.2	-84.3	82.0	69.6	12.43	6.603	
1,900.0	1,899.7	1,897.9	1,897.6	6.6	6.6	-74.31	11.2	-87.6	83.6	70.5	13.13	6.366	
2,000.0	1,999.4	1,997.1	1,996.5	6.9	6.9	-74.91	17.7	-91.9	85.6	71.8	13.84	6.185	
2,100.0	2,098.9	2,096.3	2,095.2	7.3	7.3	-75.61	25.6	-97.1	88.1	73.6	14.56	6.052	
2,200.0	2,198.3	2,195.5	2,193.8	7.7	7.6	-76.39	34.9	-103.2	91.1	75.8	15.28	5.959	
2,300.0	2,297.4	2,305.4	2,292.0	8.0	8.1	-77.23	45.6	-110.3	94.5	78.4	16.05	5.887	
2,400.0	2,396.4	2,405.5	2,391.0	8.4	8.4	-78.05	57.2	-117.9	98.2	81.4	16.80	5.845	
2,500.0	2,495.5	2,505.6	2,489.9	8.8	8.8	-78.81	68.8	-125.6	101.9	84.3	17.55	5.805	
2,600.0	2,594.5	2,605.6	2,588.9	9.2	9.2	-79.52	80.4	-133.3	105.6	87.3	18.32	5.767	
2,700.0	2,693.5	2,705.7	2,687.8	9.6	9.6	-80.18	92.0	-140.9	109.4	90.3	19.08	5.732	
2,800.0	2,792.5	2,794.2	2,786.8	10.0	9.9	-80.80	103.7	-148.6	113.2	93.3	19.81	5.711	
2,900.0	2,891.6	2,905.9	2,885.7	10.3	10.4	-81.37	115.3	-156.2	116.9	96.3	20.64	5.667	
3,000.0	2,990.6	3,006.0	2,984.7	10.7	10.8	-81.91	126.9	-163.9	120.7	99.3	21.42	5.637	
3,100.0	3,089.6	3,094.0	3,083.6	11.1	11.1	-82.42	138.5	-171.5	124.5	102.4	22.16	5.620	
3,200.0	3,188.6	3,193.9	3,182.6	11.5	11.5	-82.90	150.1	-179.2	128.4	105.4	22.95	5.593	
3,300.0	3,287.7	3,306.2	3,281.5	11.9	12.0	-83.34	161.7	-186.8	132.2	108.4	23.79	5.556	
3,400.0	3,386.7	3,406.3	3,380.5	12.3	12.4	-83.77	173.3	-194.5	136.0	111.4	24.58	5.532	
3,500.0	3,485.7	3,506.4	3,479.4	12.7	12.8	-84.17	184.9	-202.1	139.8	114.5	25.38	5.509	
3,600.0	3,584.8	3,593.6	3,578.4	13.1	13.1	-84.55	196.5	-209.8	143.7	117.5	26.13	5.498	
3,653.6	3,637.9	3,647.2	3,631.5	13.3	13.3	-84.74	202.8	-213.9	145.7	119.2	26.56	5.487	
3,700.0	3,683.8	3,706.5	3,677.3	13.5	13.6	-84.83	208.1	-217.4	147.5	120.6	26.98	5.468	
3,800.0	3,783.2	3,806.6	3,776.3	13.9	14.0	-84.28	219.8	-225.1	151.6	123.9	27.77	5.461	
3,900.0	3,882.8	3,893.2	3,875.1	14.3	14.3	-82.82	231.4	-232.7	156.0	127.6	28.47	5.480	
4,000.0	3,982.6	3,993.7	3,974.6	14.7	14.7	-80.59	242.8	-240.3	160.9	131.6	29.22	5.505	
4,100.0	4,082.5	4,095.3	4,075.6	15.0	15.1	-78.26	252.5	-246.7	165.4	135.5	29.95	5.523	
4,187.0	4,169.5	4,183.9	4,163.8	15.3	15.5	-93.31	259.2	-251.1	169.0	138.4	30.56	5.529	
4,200.0	4,182.5	4,197.2	4,177.1	15.4	15.5	-93.02	260.0	-251.6	169.5	138.8	30.65	5.529	
4,300.0	4,282.5	4,299.4	4,279.1	15.7	15.9	-91.22	265.3	-255.1	172.7	141.3	31.35	5.509	
4,400.0	4,382.5	4,401.8	4,381.5	16.1	16.3	-90.23	268.2	-257.1	174.6	142.5	32.04	5.449	
4,500.0	4,482.5	4,503.9	4,483.5	16.4	16.6	-89.99	269.0	-257.5	175.0	142.3	32.72	5.349	
4,600.0	4,582.5	4,603.9	4,583.5	16.7	16.9	-89.99	269.0	-257.5	175.0	141.6	33.41	5.238	
4,700.0	4,682.5	4,703.9	4,683.5	17.1	17.3	-89.99	269.0	-257.5	175.0	140.9	34.10	5.133	
4,800.0	4,782.5	4,803.9	4,783.5	17.4	17.6	-89.99	269.0	-257.5	175.0	140.2	34.79	5.031	
4,900.0	4,882.5	4,903.9	4,883.5	17.8	18.0	-89.99	269.0	-257.5	175.0	139.5	35.48	4.933	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #101H - 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
5,000.0	4,982.5	5,003.9	4,983.5	18.1	18.3	-89.99	269.0	-257.5	175.0	138.8	36.18	4.838	
5,100.0	5,082.5	5,103.9	5,083.5	18.5	18.7	-89.99	269.0	-257.5	175.0	138.2	36.87	4.747	
5,200.0	5,182.5	5,203.9	5,183.5	18.8	19.0	-89.99	269.0	-257.5	175.0	137.5	37.56	4.659	
5,300.0	5,282.5	5,303.9	5,283.5	19.2	19.3	-89.99	269.0	-257.5	175.0	136.8	38.26	4.575	
5,400.0	5,382.5	5,403.9	5,383.5	19.5	19.7	-89.99	269.0	-257.5	175.0	136.1	38.96	4.493	
5,500.0	5,482.5	5,503.9	5,483.5	19.9	20.0	-89.99	269.0	-257.5	175.0	135.4	39.65	4.414	
5,600.0	5,582.5	5,603.9	5,583.5	20.2	20.4	-89.99	269.0	-257.5	175.0	134.7	40.35	4.337	
5,700.0	5,682.5	5,703.9	5,683.5	20.6	20.7	-89.99	269.0	-257.5	175.0	134.0	41.05	4.264	
5,800.0	5,782.5	5,803.9	5,783.5	20.9	21.1	-89.99	269.0	-257.5	175.0	133.3	41.75	4.192	
5,900.0	5,882.5	5,903.9	5,883.5	21.3	21.4	-89.99	269.0	-257.5	175.0	132.6	42.45	4.123	
6,000.0	5,982.5	6,003.9	5,983.5	21.6	21.8	-89.99	269.0	-257.5	175.0	131.9	43.15	4.056	
6,100.0	6,082.5	6,103.9	6,083.5	22.0	22.1	-89.99	269.0	-257.5	175.0	131.2	43.85	3.991	
6,200.0	6,182.5	6,203.9	6,183.5	22.3	22.5	-89.99	269.0	-257.5	175.0	130.5	44.55	3.929	
6,300.0	6,282.5	6,303.9	6,283.5	22.7	22.8	-89.99	269.0	-257.5	175.0	129.8	45.25	3.868	
6,400.0	6,382.5	6,403.9	6,383.5	23.0	23.2	-89.99	269.0	-257.5	175.0	129.1	45.95	3.809	
6,500.0	6,482.5	6,503.9	6,483.5	23.4	23.5	-89.99	269.0	-257.5	175.0	128.4	46.66	3.751	
6,600.0	6,582.5	6,603.9	6,583.5	23.7	23.9	-89.99	269.0	-257.5	175.0	127.7	47.36	3.696	
6,700.0	6,682.5	6,703.9	6,683.5	24.1	24.2	-89.99	269.0	-257.5	175.0	127.0	48.06	3.642	
6,800.0	6,782.5	6,803.9	6,783.5	24.4	24.6	-89.99	269.0	-257.5	175.0	126.3	48.77	3.589	
6,900.0	6,882.5	6,903.9	6,883.5	24.8	24.9	-89.99	269.0	-257.5	175.0	125.6	49.47	3.538	
7,000.0	6,982.5	7,003.9	6,983.5	25.1	25.3	-89.99	269.0	-257.5	175.0	124.8	50.18	3.488	
7,100.0	7,082.5	7,103.9	7,083.5	25.5	25.6	-89.99	269.0	-257.5	175.0	124.1	50.88	3.440	
7,200.0	7,182.5	7,203.9	7,183.5	25.8	26.0	-89.99	269.0	-257.5	175.0	123.4	51.59	3.393	
7,300.0	7,282.5	7,303.9	7,283.5	26.2	26.3	-89.99	269.0	-257.5	175.0	122.7	52.29	3.347	
7,400.0	7,382.5	7,403.9	7,383.5	26.5	26.7	-89.99	269.0	-257.5	175.0	122.0	53.00	3.302	
7,500.0	7,482.5	7,503.9	7,483.5	26.9	27.0	-89.99	269.0	-257.5	175.0	121.3	53.70	3.259	
7,556.1	7,538.6	7,560.0	7,539.6	27.1	27.2	-90.40	267.7	-257.5	175.0	120.9	54.09	3.235	
7,600.0	7,582.5	7,603.5	7,582.9	27.3	27.3	-91.87	263.2	-257.5	175.1	120.7	54.39	3.219	
7,700.0	7,682.5	7,698.5	7,675.4	27.6	27.6	-98.73	242.1	-257.3	177.1	122.0	55.03	3.217	SF
7,800.0	7,782.5	7,784.5	7,755.1	28.0	27.8	-108.64	210.0	-257.1	186.5	131.3	55.12	3.383	
7,900.0	7,882.5	7,859.5	7,820.0	28.3	27.9	-118.93	172.6	-256.9	209.1	155.3	53.76	3.889	
8,000.0	7,982.5	7,923.4	7,871.1	28.7	28.0	-127.73	134.3	-256.6	247.2	196.3	50.89	4.857	
8,100.0	8,082.5	7,977.2	7,910.6	29.0	28.1	-134.57	97.7	-256.3	299.1	251.8	47.30	6.323	
8,200.0	8,182.5	8,022.4	7,941.0	29.4	28.2	-139.70	64.3	-256.1	361.8	318.0	43.76	8.267	
8,300.0	8,282.5	8,060.5	7,964.4	29.7	28.2	-143.54	34.3	-255.9	432.3	391.8	40.59	10.651	
8,400.0	8,382.5	8,100.0	7,986.6	30.1	28.3	-147.06	1.7	-255.7	508.9	470.5	38.39	13.256	
8,500.0	8,482.5	8,120.2	7,997.1	30.4	28.3	-148.70	-15.6	-255.5	589.5	553.9	35.62	16.547	
8,600.0	8,582.5	8,150.0	8,011.4	30.8	28.4	-150.91	-41.7	-255.4	673.6	639.5	34.08	19.764	
8,700.0	8,682.5	8,164.2	8,017.7	31.1	28.4	-151.89	-54.4	-255.3	760.0	727.9	32.17	23.628	
8,800.0	8,782.5	8,182.0	8,025.2	31.5	28.5	-153.04	-70.5	-255.2	848.5	817.7	30.86	27.493	
8,900.0	8,882.5	8,200.0	8,032.3	31.9	28.5	-154.15	-87.1	-255.0	938.6	908.8	29.88	31.413	
9,000.0	8,982.5	8,200.0	8,032.3	32.2	28.5	-154.15	-87.1	-255.0	1,030.2	1,001.7	28.47	36.182	
9,100.0	9,082.5	8,223.6	8,040.8	32.6	28.6	-155.49	-109.2	-254.9	1,122.4	1,094.3	28.15	39.878	
9,200.0	9,182.5	8,234.6	8,044.5	32.9	28.6	-156.08	-119.5	-254.8	1,215.7	1,188.2	27.54	44.147	
9,300.0	9,282.5	8,250.0	8,049.2	33.3	28.6	-156.87	-134.2	-254.7	1,309.8	1,282.6	27.20	48.160	
9,400.0	9,382.5	8,250.0	8,049.2	33.6	28.6	-156.87	-134.2	-254.7	1,404.4	1,377.9	26.55	52.892	
9,500.0	9,482.5	8,250.0	8,049.2	34.0	28.6	-156.87	-134.2	-254.7	1,499.8	1,473.7	26.05	57.577	
9,600.0	9,582.5	8,268.8	8,054.5	34.3	28.7	-157.78	-152.2	-254.6	1,595.3	1,569.2	26.07	61.194	
9,700.0	9,682.5	8,275.5	8,056.2	34.7	28.7	-158.09	-158.7	-254.5	1,691.3	1,665.4	25.88	65.355	
9,800.0	9,782.5	8,281.7	8,057.8	35.1	28.7	-158.37	-164.7	-254.5	1,787.7	1,761.9	25.74	69.450	
9,900.0	9,882.5	8,300.0	8,061.9	35.4	28.8	-159.16	-182.5	-254.4	1,884.5	1,858.7	25.87	72.835	
10,000.0	9,982.5	8,300.0	8,061.9	35.8	28.8	-159.16	-182.5	-254.4	1,981.3	1,955.6	25.72	77.038	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #101H - 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
10,003.5	9,986.0	8,300.0	8,061.9	35.8	28.8	-159.16	-182.5	-254.4	1,984.8	1,959.0	25.71	77.184	
10,050.0	10,032.4	8,300.0	8,061.9	35.9	28.8	7.21	-182.5	-254.4	2,029.4	2,003.8	25.63	79.174	
10,100.0	10,082.0	8,300.0	8,061.9	36.1	28.8	5.71	-182.5	-254.4	2,076.2	2,050.7	25.50	81.426	
10,150.0	10,130.9	8,300.0	8,061.9	36.2	28.8	4.74	-182.5	-254.4	2,121.5	2,096.2	25.33	83.763	
10,200.0	10,178.7	8,300.0	8,061.9	36.4	28.8	4.06	-182.5	-254.4	2,165.1	2,139.9	25.13	86.161	
10,250.0	10,225.0	8,300.0	8,061.9	36.5	28.8	3.56	-182.5	-254.4	2,206.7	2,181.8	24.91	88.595	
10,300.0	10,269.4	8,320.4	8,065.9	36.6	28.8	2.99	-202.5	-254.2	2,245.7	2,220.7	24.93	90.061	
10,350.0	10,311.8	8,327.0	8,067.0	36.7	28.8	2.66	-209.0	-254.2	2,282.4	2,257.7	24.76	92.188	
10,400.0	10,351.6	8,350.0	8,070.4	36.8	28.9	2.28	-231.8	-254.0	2,316.8	2,292.1	24.76	93.554	
10,450.0	10,388.7	8,350.0	8,070.4	36.9	28.9	2.13	-231.8	-254.0	2,348.0	2,323.5	24.49	95.877	
10,500.0	10,422.7	8,350.0	8,070.4	37.0	28.9	2.00	-231.8	-254.0	2,376.3	2,352.1	24.23	98.071	
10,550.0	10,453.3	8,350.0	8,070.4	37.1	28.9	1.90	-231.8	-254.0	2,401.7	2,377.7	24.00	100.085	
10,600.0	10,480.4	8,350.0	8,070.4	37.2	28.9	1.82	-231.8	-254.0	2,424.1	2,400.3	23.80	101.865	
10,650.0	10,503.8	8,374.6	8,073.0	37.3	29.0	1.63	-256.3	-253.9	2,442.7	2,418.9	23.82	102.549	
10,700.0	10,523.2	8,400.0	8,074.5	37.4	29.1	1.45	-281.6	-253.7	2,458.5	2,434.7	23.86	103.059	
10,750.0	10,538.5	8,400.0	8,074.5	37.5	29.1	1.42	-281.6	-253.7	2,470.4	2,446.7	23.75	104.039	
10,800.0	10,549.6	8,400.0	8,074.5	37.6	29.1	1.40	-281.6	-253.7	2,479.0	2,455.3	23.70	104.619	
10,850.0	10,556.5	8,410.6	8,074.8	37.7	29.1	1.34	-292.2	-253.6	2,484.1	2,460.4	23.75	104.592	
10,900.0	10,558.9	8,422.4	8,075.0	37.9	29.2	1.28	-304.0	-253.5	2,485.7	2,461.9	23.85	104.206	
10,903.5	10,559.0	8,422.4	8,075.0	37.9	29.2	1.28	-304.0	-253.5	2,485.7	2,461.9	23.86	104.177	
11,000.0	10,559.0	8,506.5	8,075.0	38.2	29.5	0.93	-388.1	-252.9	2,485.3	2,461.0	24.34	102.126	
11,100.0	10,559.0	8,605.3	8,075.0	38.5	29.9	0.59	-486.9	-252.3	2,485.1	2,460.2	24.96	99.566	
11,200.0	10,559.0	8,704.6	8,075.0	38.9	30.5	0.32	-586.2	-251.6	2,485.0	2,459.4	25.68	96.782	
11,300.0	10,559.0	8,804.3	8,075.0	39.4	31.1	0.13	-685.9	-250.9	2,485.0	2,458.5	26.48	93.857	
11,400.0	10,559.0	8,904.2	8,075.0	40.0	31.8	0.02	-785.8	-250.2	2,485.0	2,457.7	27.35	90.861	
11,413.3	10,559.0	8,917.5	8,075.0	40.0	31.9	0.01	-799.1	-250.1	2,485.0	2,457.5	27.47	90.450	
11,488.5	10,559.0	9,007.4	8,075.0	40.5	32.6	-0.02	-874.2	-249.5	2,485.0	2,456.7	28.26	87.935	
11,500.0	10,559.0	9,004.2	8,075.0	40.5	32.5	-0.02	-885.7	-249.5	2,485.0	2,456.7	28.29	87.850	
11,600.0	10,559.0	9,104.2	8,075.0	41.2	33.4	-0.02	-985.7	-248.8	2,485.0	2,455.7	29.28	84.872	
11,700.0	10,559.0	9,204.2	8,075.0	41.9	34.2	-0.02	-1,085.7	-248.1	2,485.0	2,454.7	30.32	81.962	
11,800.0	10,559.0	9,304.2	8,075.0	42.6	35.2	-0.02	-1,185.7	-247.4	2,485.0	2,453.6	31.40	79.137	
11,900.0	10,559.0	9,404.2	8,075.0	43.4	36.2	-0.02	-1,285.7	-246.7	2,485.0	2,452.5	32.52	76.410	
12,000.0	10,559.0	9,504.2	8,075.0	44.3	37.2	-0.02	-1,385.7	-246.0	2,485.0	2,451.3	33.68	73.789	
12,100.0	10,559.0	9,604.2	8,075.0	45.2	38.3	-0.02	-1,485.7	-245.3	2,485.0	2,450.1	34.86	71.278	
12,200.0	10,559.0	9,704.2	8,075.0	46.1	39.4	-0.02	-1,585.7	-244.6	2,485.0	2,448.9	36.08	68.879	
12,300.0	10,559.0	9,804.2	8,075.0	47.1	40.6	-0.02	-1,685.7	-243.9	2,485.0	2,447.7	37.32	66.591	
12,400.0	10,559.0	9,904.2	8,075.0	48.1	41.7	-0.02	-1,785.7	-243.2	2,485.0	2,446.4	38.58	64.411	
12,500.0	10,559.0	10,004.2	8,075.0	49.1	43.0	-0.02	-1,885.7	-242.5	2,485.0	2,445.1	39.86	62.337	
12,600.0	10,559.0	10,104.2	8,075.0	50.2	44.2	-0.02	-1,985.7	-241.8	2,485.0	2,443.8	41.17	60.364	
12,700.0	10,559.0	10,204.2	8,075.0	51.3	45.5	-0.02	-2,085.7	-241.1	2,485.0	2,442.5	42.49	58.489	
12,800.0	10,559.0	10,304.2	8,075.0	52.4	46.8	-0.02	-2,185.7	-240.4	2,485.0	2,441.2	43.82	56.706	
12,900.0	10,559.0	10,404.2	8,075.0	53.6	48.1	-0.02	-2,285.7	-239.7	2,485.0	2,439.8	45.17	55.011	
13,000.0	10,559.0	10,504.2	8,075.0	54.8	49.4	-0.02	-2,385.7	-239.0	2,485.0	2,438.5	46.54	53.399	
13,100.0	10,559.0	10,604.2	8,075.0	56.0	50.8	-0.02	-2,485.7	-238.3	2,485.0	2,437.1	47.91	51.866	
13,200.0	10,559.0	10,704.2	8,075.0	57.2	52.2	-0.02	-2,585.7	-237.6	2,485.0	2,435.7	49.30	50.406	
13,300.0	10,559.0	10,804.2	8,075.0	58.5	53.6	-0.02	-2,685.7	-236.9	2,485.0	2,434.3	50.70	49.017	
13,400.0	10,559.0	10,904.2	8,075.0	59.8	55.0	-0.02	-2,785.7	-236.2	2,485.0	2,432.9	52.10	47.694	
13,500.0	10,559.0	11,004.2	8,075.0	61.0	56.4	-0.02	-2,885.7	-235.5	2,485.0	2,431.5	53.52	46.432	
13,600.0	10,559.0	11,104.2	8,075.0	62.4	57.8	-0.02	-2,985.7	-234.8	2,485.0	2,430.1	54.94	45.229	
13,700.0	10,559.0	11,204.2	8,075.0	63.7	59.3	-0.02	-3,085.7	-234.1	2,485.0	2,428.6	56.37	44.081	
13,800.0	10,559.0	11,304.2	8,075.0	65.0	60.7	-0.02	-3,185.7	-233.4	2,485.0	2,427.2	57.81	42.984	
13,900.0	10,559.0	11,404.2	8,075.0	66.4	62.2	-0.02	-3,285.7	-232.7	2,485.0	2,425.8	59.26	41.936	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #101H - Wellbore #1 - BLM Plan #1

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.0	10,559.0	11,504.2	8,075.0	67.7	63.6	-0.02	-3,385.7	-232.0	2,485.0	2,424.3	60.71	40.934	
14,100.0	10,559.0	11,604.2	8,075.0	69.1	65.1	-0.02	-3,485.7	-231.3	2,485.0	2,422.8	62.16	39.975	
14,200.0	10,559.0	11,704.2	8,075.0	70.5	66.6	-0.02	-3,585.7	-230.6	2,485.0	2,421.4	63.63	39.057	
14,300.0	10,559.0	11,804.2	8,075.0	71.9	68.1	-0.02	-3,685.7	-229.9	2,485.0	2,419.9	65.09	38.177	
14,400.0	10,559.0	11,904.2	8,075.0	73.3	69.6	-0.02	-3,785.7	-229.2	2,485.0	2,418.4	66.56	37.333	
14,500.0	10,559.0	12,004.2	8,075.0	74.8	71.1	-0.02	-3,885.7	-228.5	2,485.0	2,417.0	68.04	36.523	
14,600.0	10,559.0	12,104.2	8,075.0	76.2	72.6	-0.02	-3,985.7	-227.8	2,485.0	2,415.5	69.52	35.746	
14,700.0	10,559.0	12,204.2	8,075.0	77.6	74.2	-0.02	-4,085.7	-227.1	2,485.0	2,414.0	71.00	34.999	
14,800.0	10,559.0	12,304.2	8,075.0	79.1	75.7	-0.02	-4,185.7	-226.4	2,485.0	2,412.5	72.49	34.281	
14,900.0	10,559.0	12,404.2	8,075.0	80.5	77.2	-0.02	-4,285.7	-225.7	2,485.0	2,411.0	73.98	33.591	
15,000.0	10,559.0	12,504.2	8,075.0	82.0	78.7	-0.02	-4,385.6	-225.0	2,485.0	2,409.5	75.47	32.926	
15,100.0	10,559.0	12,604.2	8,075.0	83.5	80.3	-0.02	-4,485.6	-224.3	2,485.0	2,408.0	76.97	32.286	
15,200.0	10,559.0	12,704.2	8,075.0	84.9	81.8	-0.02	-4,585.6	-223.6	2,485.0	2,406.5	78.47	31.669	
15,300.0	10,559.0	12,804.2	8,075.0	86.4	83.4	-0.02	-4,685.6	-222.9	2,485.0	2,405.0	79.97	31.074	
15,400.0	10,559.0	12,904.2	8,075.0	87.9	84.9	-0.02	-4,785.6	-222.2	2,485.0	2,403.5	81.47	30.501	
15,500.0	10,559.0	13,004.2	8,075.0	89.4	86.5	-0.02	-4,885.6	-221.5	2,485.0	2,402.0	82.98	29.947	
15,600.0	10,559.0	13,104.2	8,075.0	90.9	88.1	-0.02	-4,985.6	-220.8	2,485.0	2,400.5	84.49	29.412	
15,700.0	10,559.0	13,204.2	8,075.0	92.4	89.6	-0.02	-5,085.6	-220.1	2,485.0	2,399.0	86.00	28.895	
15,800.0	10,559.0	13,304.2	8,075.0	93.9	91.2	-0.02	-5,185.6	-219.4	2,485.0	2,397.5	87.51	28.396	
15,900.0	10,559.0	13,404.2	8,075.0	95.5	92.8	-0.02	-5,285.6	-218.8	2,485.0	2,396.0	89.03	27.912	
16,000.0	10,559.0	13,504.2	8,075.0	97.0	94.3	-0.02	-5,385.6	-218.1	2,485.0	2,394.5	90.55	27.445	
16,100.0	10,559.0	13,604.2	8,075.0	98.5	95.9	-0.02	-5,485.6	-217.4	2,485.0	2,393.0	92.06	26.992	
16,200.0	10,559.0	13,704.2	8,075.0	100.0	97.5	-0.02	-5,585.6	-216.7	2,485.0	2,391.4	93.59	26.554	
16,300.0	10,559.0	13,804.2	8,075.0	101.6	99.1	-0.02	-5,685.6	-216.0	2,485.0	2,389.9	95.11	26.129	
16,400.0	10,559.0	13,904.2	8,075.0	103.1	100.7	-0.02	-5,785.6	-215.3	2,485.0	2,388.4	96.63	25.717	
16,500.0	10,559.0	14,004.2	8,075.0	104.6	102.2	-0.02	-5,885.6	-214.6	2,485.0	2,386.9	98.16	25.317	
16,600.0	10,559.0	14,104.2	8,075.0	106.2	103.8	-0.02	-5,985.6	-213.9	2,485.0	2,385.3	99.68	24.930	
16,700.0	10,559.0	14,204.2	8,075.0	107.7	105.4	-0.02	-6,085.6	-213.2	2,485.0	2,383.8	101.21	24.553	
16,800.0	10,559.0	14,304.2	8,075.0	109.3	107.0	-0.02	-6,185.6	-212.5	2,485.0	2,382.3	102.74	24.188	
16,900.0	10,559.0	14,404.2	8,075.0	110.8	108.6	-0.02	-6,285.6	-211.8	2,485.0	2,380.8	104.27	23.833	
17,000.0	10,559.0	14,504.2	8,075.0	112.4	110.2	-0.02	-6,385.6	-211.1	2,485.0	2,379.2	105.80	23.488	
17,100.0	10,559.0	14,604.2	8,075.0	113.9	111.8	-0.02	-6,485.6	-210.4	2,485.0	2,377.7	107.33	23.153	
17,200.0	10,559.0	14,704.2	8,075.0	115.5	113.4	-0.02	-6,585.6	-209.7	2,485.0	2,376.2	108.86	22.827	
17,300.0	10,559.0	14,804.2	8,075.0	117.1	115.0	-0.02	-6,685.6	-209.0	2,485.0	2,374.6	110.40	22.509	
17,400.0	10,559.0	14,904.2	8,075.0	118.6	116.6	-0.02	-6,785.6	-208.3	2,485.0	2,373.1	111.93	22.201	
17,500.0	10,559.0	15,004.2	8,075.0	120.2	118.2	-0.02	-6,885.6	-207.6	2,485.0	2,371.6	113.47	21.900	
17,600.0	10,559.0	15,104.2	8,075.0	121.8	119.8	-0.02	-6,985.6	-206.9	2,485.0	2,370.0	115.01	21.608	
17,700.0	10,559.0	15,204.2	8,075.0	123.3	121.4	-0.02	-7,085.6	-206.2	2,485.0	2,368.5	116.55	21.322	
17,800.0	10,559.0	15,304.2	8,075.0	124.9	123.0	-0.02	-7,185.6	-205.5	2,485.0	2,366.9	118.08	21.045	
17,900.0	10,559.0	15,404.2	8,075.0	126.5	124.6	-0.02	-7,285.6	-204.8	2,485.0	2,365.4	119.62	20.774	
18,000.0	10,559.0	15,504.2	8,075.0	128.1	126.2	-0.02	-7,385.6	-204.1	2,485.0	2,363.9	121.16	20.510	
18,100.0	10,559.0	15,604.2	8,075.0	129.7	127.8	-0.02	-7,485.6	-203.4	2,485.0	2,362.3	122.71	20.252	
18,200.0	10,559.0	15,704.2	8,075.0	131.2	129.4	-0.02	-7,585.6	-202.7	2,485.0	2,360.8	124.25	20.001	
18,300.0	10,559.0	15,804.2	8,075.0	132.8	131.1	-0.02	-7,685.6	-202.0	2,485.0	2,359.2	125.79	19.755	
18,400.0	10,559.0	15,904.2	8,075.0	134.4	132.7	-0.02	-7,785.6	-201.3	2,485.0	2,357.7	127.33	19.516	
18,500.0	10,559.0	16,004.2	8,075.0	136.0	134.3	-0.02	-7,885.6	-200.6	2,485.0	2,356.1	128.88	19.282	
18,600.0	10,559.0	16,104.2	8,075.0	137.6	135.9	-0.02	-7,985.6	-199.9	2,485.0	2,354.6	130.42	19.054	
18,700.0	10,559.0	16,204.2	8,075.0	139.2	137.5	-0.02	-8,085.6	-199.2	2,485.0	2,353.1	131.97	18.831	
18,800.0	10,559.0	16,304.2	8,075.0	140.8	139.1	-0.02	-8,185.6	-198.5	2,485.0	2,351.5	133.51	18.613	
18,900.0	10,559.0	16,404.2	8,075.0	142.4	140.8	-0.02	-8,285.6	-197.8	2,485.0	2,350.0	135.06	18.400	
19,000.0	10,559.0	16,504.2	8,075.0	144.0	142.4	-0.02	-8,385.6	-197.1	2,485.0	2,348.4	136.60	18.191	
19,100.0	10,559.0	16,604.2	8,075.0	145.6	144.0	-0.02	-8,485.5	-196.4	2,485.0	2,346.9	138.15	17.988	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #101H - Wellbore #1 - BLM Plan #1

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,200.0	10,559.0	16,704.2	8,075.0	147.2	145.6	-0.02	-8,585.5	-195.7	2,485.0	2,345.3	139.70	17.788	
19,300.0	10,559.0	16,804.2	8,075.0	148.7	147.2	-0.02	-8,685.5	-195.0	2,485.0	2,343.8	141.25	17.594	
19,400.0	10,559.0	16,904.2	8,075.0	150.3	148.8	-0.02	-8,785.5	-194.3	2,485.0	2,342.2	142.80	17.403	
19,500.0	10,559.0	17,004.2	8,075.0	151.9	150.5	-0.02	-8,885.5	-193.6	2,485.0	2,340.7	144.34	17.216	
19,600.0	10,559.0	17,104.2	8,075.0	153.6	152.1	-0.02	-8,985.5	-192.9	2,485.0	2,339.1	145.89	17.033	
19,700.0	10,559.0	17,204.2	8,075.0	155.2	153.7	-0.02	-9,085.5	-192.2	2,485.0	2,337.6	147.44	16.854	
19,800.0	10,559.0	17,304.2	8,075.0	156.8	155.3	-0.02	-9,185.5	-191.5	2,485.0	2,336.0	148.99	16.679	
19,900.0	10,559.0	17,404.2	8,075.0	158.4	157.0	-0.02	-9,285.5	-190.8	2,485.0	2,334.5	150.54	16.507	
20,000.0	10,559.0	17,504.2	8,075.0	160.0	158.6	-0.02	-9,385.5	-190.1	2,485.0	2,332.9	152.10	16.339	
20,100.0	10,559.0	17,604.2	8,075.0	161.6	160.2	-0.02	-9,485.5	-189.4	2,485.0	2,331.4	153.65	16.174	
20,200.0	10,559.0	17,704.2	8,075.0	163.2	161.8	-0.02	-9,585.5	-188.7	2,485.0	2,329.8	155.20	16.012	
20,300.0	10,559.0	17,804.2	8,075.0	164.8	163.5	-0.02	-9,685.5	-188.0	2,485.0	2,328.3	156.75	15.853	
20,400.0	10,559.0	17,904.2	8,075.0	166.4	165.1	-0.02	-9,785.5	-187.3	2,485.0	2,326.7	158.30	15.698	
20,500.0	10,559.0	18,004.2	8,075.0	168.0	166.7	-0.02	-9,885.5	-186.6	2,485.0	2,325.2	159.86	15.545	
20,600.0	10,559.0	18,104.2	8,075.0	169.6	168.4	-0.02	-9,985.5	-185.9	2,485.0	2,323.6	161.41	15.396	
20,700.0	10,559.0	18,204.2	8,075.0	171.2	170.0	-0.02	-10,085.5	-185.2	2,485.0	2,322.1	162.96	15.249	
20,800.0	10,559.0	18,304.2	8,075.0	172.8	171.6	-0.02	-10,185.5	-184.5	2,485.0	2,320.5	164.52	15.105	
20,900.0	10,559.0	18,404.2	8,075.0	174.5	173.2	-0.02	-10,285.5	-183.8	2,485.0	2,319.0	166.07	14.964	
21,000.0	10,559.0	18,504.2	8,075.0	176.1	174.9	-0.02	-10,385.5	-183.1	2,485.0	2,317.4	167.63	14.825	
21,100.0	10,559.0	18,604.2	8,075.0	177.7	176.5	-0.02	-10,485.5	-182.4	2,485.0	2,315.9	169.18	14.689	
21,200.0	10,559.0	18,704.2	8,075.0	179.3	178.1	-0.02	-10,585.5	-181.8	2,485.0	2,314.3	170.73	14.555	
21,300.0	10,559.0	18,804.2	8,075.0	180.9	179.8	-0.02	-10,685.5	-181.1	2,485.0	2,312.7	172.29	14.424	
21,400.0	10,559.0	18,904.2	8,075.0	182.5	181.4	-0.02	-10,785.5	-180.4	2,485.0	2,311.2	173.85	14.295	
21,500.0	10,559.0	19,004.2	8,075.0	184.2	183.0	-0.02	-10,885.5	-179.7	2,485.0	2,309.6	175.40	14.168	
21,600.0	10,559.0	19,104.2	8,075.0	185.8	184.7	-0.02	-10,985.5	-179.0	2,485.0	2,308.1	176.96	14.043	
21,700.0	10,559.0	19,204.2	8,075.0	187.4	186.3	-0.02	-11,085.5	-178.3	2,485.0	2,306.5	178.51	13.921	
21,800.0	10,559.0	19,304.2	8,075.0	189.0	187.9	-0.02	-11,185.5	-177.6	2,485.0	2,305.0	180.07	13.800	
21,900.0	10,559.0	19,404.2	8,075.0	190.6	189.6	-0.02	-11,285.5	-176.9	2,485.0	2,303.4	181.63	13.682	
22,000.0	10,559.0	19,504.2	8,075.0	192.3	191.2	-0.02	-11,385.5	-176.2	2,485.0	2,301.9	183.18	13.566	
22,100.0	10,559.0	19,604.2	8,075.0	193.9	192.8	-0.02	-11,485.5	-175.5	2,485.0	2,300.3	184.74	13.452	
22,200.0	10,559.0	19,704.2	8,075.0	195.5	194.5	-0.02	-11,585.5	-174.8	2,485.0	2,298.7	186.30	13.339	
22,300.0	10,559.0	19,804.2	8,075.0	197.1	196.1	-0.02	-11,685.5	-174.1	2,485.0	2,297.2	187.86	13.228	
22,400.0	10,559.0	19,904.2	8,075.0	198.7	197.7	-0.02	-11,785.5	-173.4	2,485.0	2,295.6	189.41	13.120	
22,500.0	10,559.0	20,004.2	8,075.0	200.4	199.4	-0.02	-11,885.5	-172.7	2,485.0	2,294.1	190.97	13.013	
22,600.0	10,559.0	20,104.2	8,075.0	202.0	201.0	-0.02	-11,985.5	-172.0	2,485.0	2,292.5	192.53	12.907	
22,700.0	10,559.0	20,204.2	8,075.0	203.6	202.6	-0.02	-12,085.5	-171.3	2,485.0	2,291.0	194.09	12.804	
22,800.0	10,559.0	20,304.2	8,075.0	205.2	204.3	-0.02	-12,185.5	-170.6	2,485.0	2,289.4	195.65	12.702	
22,900.0	10,559.0	20,404.2	8,075.0	206.9	205.9	-0.02	-12,285.5	-169.9	2,485.0	2,287.8	197.20	12.601	
23,000.0	10,559.0	20,507.3	8,075.0	208.5	207.6	-0.01	-12,388.6	-169.4	2,485.0	2,286.3	198.78	12.501	
23,028.2	10,559.0	20,535.5	8,075.0	208.9	208.1	0.00	-12,416.8	-169.9	2,485.0	2,285.8	199.22	12.474	
23,028.8	10,559.0	20,536.1	8,075.0	209.0	208.1	0.00	-12,417.4	-169.9	2,485.0	2,285.8	199.23	12.473	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #105H - 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	-110.79	-30.3	-79.9	85.5				
100.0	100.0	100.0	100.0	0.1	0.1	-110.79	-30.3	-79.9	85.5	85.2	0.26	333.560	
200.0	200.0	200.0	200.0	0.5	0.5	-110.79	-30.3	-79.9	85.5	84.5	0.97	87.844	
300.0	300.0	300.0	300.0	0.8	0.8	-110.79	-30.3	-79.9	85.5	83.8	1.69	50.582	
400.0	400.0	400.0	400.0	1.2	1.2	-110.79	-30.3	-79.9	85.5	83.1	2.41	35.517	
500.0	500.0	500.0	500.0	1.6	1.6	-110.79	-30.3	-79.9	85.5	82.4	3.12	27.366	
600.0	600.0	600.0	600.0	1.9	1.9	-110.79	-30.3	-79.9	85.5	81.7	3.84	22.258	
700.0	700.0	700.0	700.0	2.3	2.3	-110.79	-30.3	-79.9	85.5	80.9	4.56	18.757	
800.0	800.0	800.0	800.0	2.6	2.6	-110.79	-30.3	-79.9	85.5	80.2	5.27	16.208	
900.0	900.0	900.0	900.0	3.0	3.0	-110.79	-30.3	-79.9	85.5	79.5	5.99	14.268	
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	-110.79	-30.3	-79.9	85.5	78.8	6.71	12.744	
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	-110.79	-30.3	-79.9	85.5	78.1	7.43	11.513	
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	-110.79	-30.3	-79.9	85.5	77.4	8.14	10.499	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-110.79	-30.3	-79.9	85.5	76.6	8.86	9.650	
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	-110.79	-30.3	-79.9	85.5	75.9	9.58	8.927	
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	-110.79	-30.3	-79.9	85.5	75.2	10.29	8.306	CC
1,600.0	1,600.0	1,600.0	1,600.0	5.5	5.5	-94.32	-30.3	-79.9	85.6	74.5	11.01	7.771	
1,700.0	1,700.0	1,700.0	1,700.0	5.9	5.9	-96.06	-30.3	-79.9	85.8	74.1	11.73	7.317	
1,800.0	1,799.9	1,800.1	1,799.9	6.2	6.2	-98.93	-30.3	-79.9	86.4	73.9	12.44	6.941	ES
1,900.0	1,899.7	1,900.3	1,899.7	6.6	6.6	-102.86	-30.3	-79.9	87.5	74.4	13.16	6.650	
2,000.0	1,999.4	1,999.4	1,999.4	6.9	6.9	-107.72	-30.3	-79.9	89.6	75.7	13.88	6.457	
2,100.0	2,098.9	2,100.5	2,100.5	7.3	7.3	-113.43	-29.8	-79.2	92.1	77.5	14.60	6.310	
2,200.0	2,198.3	2,201.6	2,201.5	7.7	7.7	-119.88	-28.2	-77.1	94.6	79.3	15.31	6.177	
2,300.0	2,297.4	2,302.5	2,302.3	8.0	8.0	-127.02	-25.5	-73.6	97.5	81.5	16.03	6.085	
2,400.0	2,396.4	2,403.2	2,402.9	8.4	8.4	-134.42	-21.8	-68.6	100.9	84.1	16.74	6.026	
2,500.0	2,495.5	2,503.9	2,503.3	8.8	8.7	-141.73	-16.9	-62.3	104.3	86.8	17.45	5.973	
2,600.0	2,594.5	2,604.5	2,603.4	9.2	9.1	-149.05	-11.0	-54.6	107.8	89.7	18.17	5.935	
2,700.0	2,693.5	2,704.8	2,703.1	9.6	9.5	-156.42	-4.1	-45.5	111.8	92.9	18.88	5.920	SF
2,800.0	2,792.5	2,804.9	2,802.3	10.0	9.8	-163.85	3.8	-35.0	116.4	96.8	19.61	5.937	
2,900.0	2,891.6	2,903.6	2,900.0	10.3	10.2	-170.83	12.2	-24.1	122.4	102.1	20.34	6.017	
3,000.0	2,990.6	3,002.3	2,997.8	10.7	10.6	-177.10	20.5	-13.2	130.1	109.0	21.08	6.171	
3,100.0	3,089.6	3,101.1	3,095.5	11.1	10.9	177.38	28.8	-2.2	139.2	117.4	21.82	6.377	
3,200.0	3,188.6	3,200.2	3,193.3	11.5	11.3	172.57	37.1	8.7	149.4	126.8	22.57	6.619	
3,300.0	3,287.7	3,301.5	3,291.1	11.9	11.7	168.38	45.5	19.6	160.5	137.2	23.33	6.881	
3,400.0	3,386.7	3,402.7	3,388.8	12.3	12.1	164.75	53.8	30.6	172.4	148.3	24.09	7.157	
3,500.0	3,485.7	3,504.0	3,486.6	12.7	12.5	161.59	62.1	41.5	184.9	160.0	24.85	7.439	
3,600.0	3,584.8	3,605.3	3,584.4	13.1	12.9	158.84	70.4	52.4	197.8	172.2	25.62	7.722	
3,653.6	3,637.9	3,647.7	3,636.8	13.3	13.0	157.51	74.9	58.3	205.0	179.0	25.99	7.887	
3,700.0	3,683.8	3,706.5	3,682.2	13.5	13.3	156.43	78.7	63.4	210.9	184.6	26.39	7.994	
3,800.0	3,783.2	3,807.6	3,780.1	13.9	13.7	154.10	87.1	74.3	222.4	195.2	27.16	8.189	
3,900.0	3,882.8	3,908.5	3,878.2	14.3	14.1	151.70	95.4	85.3	231.9	204.0	27.93	8.304	
4,000.0	3,982.6	4,009.4	3,976.4	14.7	14.5	149.17	103.8	96.3	239.5	210.9	28.69	8.350	
4,100.0	4,082.5	4,089.7	4,074.6	15.0	14.8	146.46	112.1	107.3	245.5	216.1	29.37	8.359	
4,187.0	4,169.5	4,175.9	4,159.9	15.3	15.1	126.88	119.4	116.8	249.4	219.3	30.02	8.308	
4,200.0	4,182.5	4,188.8	4,172.7	15.4	15.2	126.48	120.5	118.2	249.9	219.8	30.11	8.298	
4,300.0	4,282.5	4,287.8	4,270.7	15.7	15.6	123.50	128.8	129.2	254.1	223.3	30.85	8.238	
4,400.0	4,382.5	4,386.9	4,368.8	16.1	16.0	120.61	137.2	140.2	259.1	227.5	31.59	8.203	
4,500.0	4,482.5	4,485.9	4,466.9	16.4	16.4	117.84	145.5	151.1	264.7	232.4	32.32	8.190	
4,600.0	4,582.5	4,584.9	4,564.9	16.7	16.8	115.19	153.9	162.1	270.9	237.8	33.05	8.197	
4,700.0	4,682.5	4,683.9	4,663.0	17.1	17.2	112.66	162.2	173.1	277.6	243.9	33.77	8.221	
4,800.0	4,782.5	4,783.0	4,761.1	17.4	17.6	110.26	170.6	184.0	284.9	250.4	34.50	8.259	
4,900.0	4,882.5	4,882.0	4,859.1	17.8	18.0	107.97	178.9	195.0	292.7	257.5	35.22	8.311	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #105H - 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
5,000.0	4,982.5	4,981.0	4,957.2	18.1	18.4	105.81	187.3	206.0	300.9	264.9	35.93	8.373	
5,100.0	5,082.5	5,080.0	5,055.3	18.5	18.8	103.76	195.6	216.9	309.5	272.8	36.65	8.445	
5,200.0	5,182.5	5,179.1	5,153.3	18.8	19.2	101.82	204.0	227.9	318.5	281.1	37.36	8.524	
5,300.0	5,282.5	5,278.1	5,251.4	19.2	19.6	99.99	212.3	238.9	327.8	289.7	38.07	8.610	
5,400.0	5,382.5	5,377.1	5,349.4	19.5	20.0	98.27	220.7	249.8	337.5	298.7	38.78	8.701	
5,500.0	5,482.5	5,476.1	5,447.5	19.9	20.4	96.64	229.0	260.8	347.4	307.9	39.49	8.796	
5,600.0	5,582.5	5,575.2	5,545.6	20.2	20.8	95.10	237.4	271.8	357.6	317.4	40.20	8.895	
5,700.0	5,682.5	5,674.2	5,643.6	20.6	21.2	93.64	245.7	282.7	368.0	327.1	40.91	8.997	
5,800.0	5,782.5	5,776.8	5,745.3	20.9	21.6	92.25	254.2	293.9	378.5	336.8	41.66	9.086	
5,900.0	5,882.5	5,884.6	5,852.3	21.3	22.0	91.09	261.6	303.6	387.3	344.9	42.46	9.123	
6,000.0	5,982.5	5,993.0	5,960.3	21.6	22.5	90.26	267.2	310.9	394.0	350.8	43.23	9.114	
6,100.0	6,082.5	6,101.8	6,069.0	22.0	22.9	89.72	270.9	315.8	398.5	354.6	43.99	9.060	
6,200.0	6,182.5	6,210.9	6,178.1	22.3	23.2	89.46	272.7	318.2	400.8	356.1	44.72	8.963	
6,300.0	6,282.5	6,315.3	6,282.5	22.7	23.6	89.43	273.0	318.5	401.1	355.6	45.42	8.830	
6,400.0	6,382.5	6,415.3	6,382.5	23.0	23.9	89.43	273.0	318.5	401.1	354.9	46.11	8.697	
6,500.0	6,482.5	6,515.3	6,482.5	23.4	24.3	89.43	273.0	318.5	401.1	354.3	46.81	8.568	
6,600.0	6,582.5	6,615.3	6,582.5	23.7	24.6	89.43	273.0	318.5	401.1	353.6	47.51	8.442	
6,700.0	6,682.5	6,715.3	6,682.5	24.1	24.9	89.43	273.0	318.5	401.1	352.9	48.21	8.320	
6,800.0	6,782.5	6,815.3	6,782.5	24.4	25.3	89.43	273.0	318.5	401.1	352.2	48.90	8.201	
6,900.0	6,882.5	6,915.3	6,882.5	24.8	25.6	89.43	273.0	318.5	401.1	351.5	49.60	8.086	
7,000.0	6,982.5	7,015.3	6,982.5	25.1	25.9	89.43	273.0	318.5	401.1	350.8	50.30	7.973	
7,100.0	7,082.5	7,115.3	7,082.5	25.5	26.3	89.43	273.0	318.5	401.1	350.1	51.00	7.864	
7,200.0	7,182.5	7,215.3	7,182.5	25.8	26.6	89.43	273.0	318.5	401.1	349.4	51.70	7.758	
7,300.0	7,282.5	7,315.3	7,282.5	26.2	27.0	89.43	273.0	318.5	401.1	348.7	52.40	7.654	
7,400.0	7,382.5	7,415.3	7,382.5	26.5	27.3	89.43	273.0	318.5	401.1	348.0	53.10	7.553	
7,500.0	7,482.5	7,515.3	7,482.5	26.9	27.6	89.43	273.0	318.5	401.1	347.3	53.80	7.454	
7,600.0	7,582.5	7,615.3	7,582.5	27.3	28.0	89.43	273.0	318.5	401.1	346.6	54.50	7.358	
7,700.0	7,682.5	7,715.3	7,682.5	27.6	28.3	89.43	273.0	318.5	401.1	345.9	55.21	7.265	
7,800.0	7,782.5	7,815.3	7,782.5	28.0	28.7	89.43	273.0	318.5	401.1	345.2	55.91	7.174	
7,900.0	7,882.5	7,915.3	7,882.5	28.3	29.0	89.43	273.0	318.5	401.1	344.5	56.61	7.085	
8,000.0	7,982.5	8,015.3	7,982.5	28.7	29.4	89.43	273.0	318.5	401.1	343.7	57.31	6.998	
8,009.7	7,992.2	8,025.1	7,992.2	28.7	29.4	89.43	273.0	318.5	401.1	343.7	57.38	6.989	
8,100.0	8,082.5	8,110.8	8,077.9	29.0	29.7	89.89	269.7	318.9	401.4	343.4	58.00	6.921	
8,200.0	8,182.5	8,200.9	8,166.3	29.4	29.9	92.23	253.3	320.7	403.8	345.2	58.62	6.890	
8,300.0	8,282.5	8,284.0	8,244.7	29.7	30.1	96.03	226.1	323.7	410.2	351.2	59.06	6.946	
8,400.0	8,382.5	8,357.9	8,310.4	30.1	30.3	100.55	192.6	327.4	423.1	364.1	59.09	7.161	
8,500.0	8,482.5	8,422.0	8,363.5	30.4	30.4	105.14	157.0	331.3	444.9	386.5	58.44	7.613	
8,600.0	8,582.5	8,476.8	8,405.5	30.8	30.5	109.38	122.0	335.2	476.8	419.8	57.01	8.364	
8,700.0	8,682.5	8,523.4	8,438.4	31.1	30.5	113.09	89.3	338.8	519.0	464.1	54.92	9.450	
8,800.0	8,782.5	8,563.0	8,464.2	31.5	30.6	116.26	59.4	342.1	570.5	518.1	52.44	10.880	
8,900.0	8,882.5	8,600.0	8,486.4	31.9	30.6	119.18	30.0	345.4	630.1	580.2	49.95	12.614	
9,000.0	8,982.5	8,625.7	8,500.7	32.2	30.6	121.17	8.7	347.7	696.4	649.1	47.27	14.731	
9,100.0	9,082.5	8,650.0	8,513.3	32.6	30.6	123.00	-11.9	350.0	768.1	723.2	44.88	17.115	
9,200.0	9,182.5	8,672.4	8,524.1	32.9	30.7	124.65	-31.4	352.1	844.2	801.4	42.77	19.740	
9,300.0	9,282.5	8,700.0	8,536.3	33.3	30.7	126.61	-56.0	354.9	923.9	882.7	41.17	22.440	
9,400.0	9,382.5	8,700.0	8,536.3	33.6	30.7	126.61	-56.0	354.9	1,006.4	967.4	38.97	25.826	
9,500.0	9,482.5	8,722.9	8,545.6	34.0	30.7	128.18	-76.8	357.1	1,091.2	1,053.4	37.80	28.864	
9,600.0	9,582.5	8,750.0	8,555.5	34.3	30.7	129.97	-101.9	359.9	1,178.2	1,141.2	36.95	31.884	
9,700.0	9,682.5	8,750.0	8,555.5	34.7	30.7	129.97	-101.9	359.9	1,266.3	1,230.7	35.56	35.611	
9,800.0	9,782.5	8,750.0	8,555.5	35.1	30.7	129.97	-101.9	359.9	1,356.1	1,321.7	34.39	39.431	
9,900.0	9,882.5	8,767.9	8,561.3	35.4	30.8	131.11	-118.8	361.8	1,446.8	1,413.0	33.83	42.772	
10,000.0	9,982.5	8,776.6	8,564.0	35.8	30.8	131.65	-127.0	362.7	1,538.5	1,505.4	33.17	46.379	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #105H - 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
10,003.5	9,986.0	8,776.9	8,564.1	35.8	30.8	131.67	-127.3	362.7	1,541.8	1,508.6	33.15	46.506	
10,050.0	10,032.4	8,781.1	8,565.3	35.9	30.8	-50.75	-131.3	363.2	1,584.4	1,551.5	32.87	48.196	
10,100.0	10,082.0	8,800.0	8,570.5	36.1	30.8	-42.77	-149.3	365.2	1,629.4	1,596.6	32.84	49.615	
10,150.0	10,130.9	8,800.0	8,570.5	36.2	30.8	-37.11	-149.3	365.2	1,672.9	1,640.5	32.42	51.605	
10,200.0	10,178.7	8,800.0	8,570.5	36.4	30.8	-32.65	-149.3	365.2	1,715.0	1,683.0	32.00	53.594	
10,250.0	10,225.0	8,800.0	8,570.5	36.5	30.8	-29.11	-149.3	365.2	1,755.5	1,723.9	31.60	55.560	
10,300.0	10,269.4	8,800.0	8,570.5	36.6	30.8	-26.27	-149.3	365.2	1,794.2	1,763.0	31.21	57.479	
10,350.0	10,311.8	8,823.1	8,576.0	36.7	30.9	-23.98	-171.6	367.6	1,830.3	1,799.1	31.22	58.632	
10,400.0	10,351.6	8,831.9	8,577.9	36.8	30.9	-22.17	-180.2	368.6	1,864.4	1,833.4	31.00	60.132	
10,450.0	10,388.7	8,850.0	8,581.3	36.9	30.9	-20.74	-197.8	370.5	1,896.1	1,865.1	30.94	61.274	
10,500.0	10,422.7	8,850.0	8,581.3	37.0	30.9	-19.52	-197.8	370.5	1,925.0	1,894.3	30.67	62.760	
10,550.0	10,453.3	8,850.0	8,581.3	37.1	30.9	-18.50	-197.8	370.5	1,951.3	1,920.9	30.46	64.060	
10,600.0	10,480.4	8,870.6	8,584.5	37.2	31.0	-17.79	-218.0	372.7	1,974.6	1,944.1	30.53	64.676	
10,650.0	10,503.8	8,880.9	8,585.8	37.3	31.0	-17.17	-228.2	373.9	1,995.1	1,964.6	30.54	65.339	
10,700.0	10,523.2	8,900.0	8,587.8	37.4	31.1	-16.75	-247.0	375.9	2,012.7	1,982.0	30.67	65.624	
10,750.0	10,538.5	8,900.0	8,587.8	37.5	31.1	-16.33	-247.0	375.9	2,027.0	1,996.3	30.71	66.002	
10,800.0	10,549.6	8,900.0	8,587.8	37.6	31.1	-16.00	-247.0	375.9	2,038.4	2,007.5	30.84	66.090	
10,850.0	10,556.5	8,923.3	8,589.3	37.7	31.2	-15.95	-270.2	378.5	2,046.3	2,015.1	31.18	65.630	
10,900.0	10,558.9	8,949.8	8,590.0	37.9	31.3	-16.04	-296.5	381.4	2,051.4	2,019.8	31.57	64.974	
10,903.5	10,559.0	8,949.8	8,590.0	37.9	31.3	-16.03	-296.5	381.4	2,051.6	2,020.0	31.59	64.937	
11,000.0	10,559.0	8,982.2	8,590.0	38.2	31.4	-16.39	-328.8	384.8	2,058.3	2,026.0	32.37	63.584	
11,100.0	10,559.0	9,106.2	8,590.0	38.5	31.9	-17.25	-452.3	394.3	2,064.9	2,031.4	33.43	61.761	
11,200.0	10,559.0	9,233.0	8,590.0	38.9	32.6	-17.82	-579.1	398.5	2,069.3	2,034.8	34.47	60.038	
11,300.0	10,559.0	9,335.3	8,590.0	39.4	33.2	-18.09	-681.3	399.3	2,071.8	2,036.4	35.40	58.518	
11,400.0	10,559.0	9,435.2	8,590.0	40.0	33.8	-18.25	-781.2	400.0	2,073.4	2,037.0	36.34	57.048	
11,488.5	10,559.0	9,523.6	8,590.0	40.5	34.4	-18.29	-869.7	400.6	2,073.8	2,036.6	37.18	55.780	
11,500.0	10,559.0	9,535.1	8,590.0	40.5	34.5	-18.29	-881.2	400.7	2,073.8	2,036.5	37.29	55.616	
11,600.0	10,559.0	9,635.1	8,590.0	41.2	35.3	-18.29	-981.2	401.4	2,073.8	2,035.5	38.27	54.188	
11,700.0	10,559.0	9,735.1	8,590.0	41.9	36.1	-18.29	-1,081.2	402.1	2,073.8	2,034.5	39.31	52.753	
11,800.0	10,559.0	9,835.1	8,590.0	42.6	37.0	-18.29	-1,181.2	402.8	2,073.8	2,033.4	40.41	51.323	
11,900.0	10,559.0	9,935.1	8,590.0	43.4	37.9	-18.29	-1,281.2	403.5	2,073.8	2,032.2	41.55	49.908	
12,000.0	10,559.0	10,035.1	8,590.0	44.3	38.9	-18.29	-1,381.2	404.2	2,073.8	2,031.0	42.74	48.516	
12,100.0	10,559.0	10,135.1	8,590.0	45.2	39.9	-18.29	-1,481.2	404.9	2,073.8	2,029.8	43.98	47.155	
12,200.0	10,559.0	10,235.1	8,590.0	46.1	41.0	-18.29	-1,581.2	405.6	2,073.8	2,028.5	45.25	45.828	
12,300.0	10,559.0	10,335.1	8,590.0	47.1	42.1	-18.29	-1,681.2	406.3	2,073.8	2,027.2	46.56	44.540	
12,400.0	10,559.0	10,435.1	8,590.0	48.1	43.2	-18.29	-1,781.2	407.0	2,073.8	2,025.9	47.90	43.293	
12,500.0	10,559.0	10,535.1	8,590.0	49.1	44.4	-18.29	-1,881.2	407.7	2,073.8	2,024.5	49.27	42.088	
12,600.0	10,559.0	10,635.1	8,590.0	50.2	45.6	-18.29	-1,981.2	408.4	2,073.8	2,023.1	50.67	40.926	
12,700.0	10,559.0	10,735.1	8,590.0	51.3	46.8	-18.29	-2,081.2	409.1	2,073.8	2,021.7	52.10	39.807	
12,800.0	10,559.0	10,835.1	8,590.0	52.4	48.1	-18.29	-2,181.2	409.8	2,073.8	2,020.3	53.55	38.730	
12,900.0	10,559.0	10,935.1	8,590.0	53.6	49.3	-18.29	-2,281.2	410.5	2,073.8	2,018.8	55.02	37.695	
13,000.0	10,559.0	11,035.1	8,590.0	54.8	50.6	-18.29	-2,381.1	411.2	2,073.8	2,017.3	56.51	36.701	
13,100.0	10,559.0	11,135.1	8,590.0	56.0	51.9	-18.29	-2,481.1	411.9	2,073.8	2,015.8	58.01	35.747	
13,200.0	10,559.0	11,235.1	8,590.0	57.2	53.3	-18.29	-2,581.1	412.6	2,073.8	2,014.3	59.54	34.831	
13,300.0	10,559.0	11,335.1	8,590.0	58.5	54.6	-18.29	-2,681.1	413.3	2,073.8	2,012.7	61.08	33.952	
13,400.0	10,559.0	11,435.1	8,590.0	59.8	56.0	-18.29	-2,781.1	414.0	2,073.8	2,011.2	62.64	33.108	
13,500.0	10,559.0	11,535.1	8,590.0	61.0	57.4	-18.29	-2,881.1	414.7	2,073.8	2,009.6	64.21	32.299	
13,600.0	10,559.0	11,635.1	8,590.0	62.4	58.8	-18.29	-2,981.1	415.4	2,073.8	2,008.0	65.79	31.522	
13,700.0	10,559.0	11,735.1	8,590.0	63.7	60.2	-18.29	-3,081.1	416.1	2,073.8	2,006.4	67.38	30.776	
13,800.0	10,559.0	11,835.1	8,590.0	65.0	61.6	-18.29	-3,181.1	416.8	2,073.8	2,004.8	68.99	30.060	
13,900.0	10,559.0	11,935.1	8,590.0	66.4	63.0	-18.29	-3,281.1	417.5	2,073.8	2,003.2	70.60	29.373	
14,000.0	10,559.0	12,035.1	8,590.0	67.7	64.5	-18.29	-3,381.1	418.2	2,073.8	2,001.6	72.23	28.712	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #105H - 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	10,559.0	12,135.1	8,590.0	69.1	65.9	-18.29	-3,481.1	418.9	2,073.8	1,999.9	73.86	28.077	
14,200.0	10,559.0	12,235.1	8,590.0	70.5	67.4	-18.29	-3,581.1	419.6	2,073.8	1,998.3	75.50	27.466	
14,300.0	10,559.0	12,335.1	8,590.0	71.9	68.9	-18.29	-3,681.1	420.3	2,073.8	1,996.7	77.15	26.879	
14,400.0	10,559.0	12,435.1	8,590.0	73.3	70.4	-18.29	-3,781.1	421.0	2,073.8	1,995.0	78.81	26.314	
14,500.0	10,559.0	12,535.1	8,590.0	74.8	71.8	-18.29	-3,881.1	421.7	2,073.8	1,993.3	80.48	25.770	
14,600.0	10,559.0	12,635.1	8,590.0	76.2	73.3	-18.29	-3,981.1	422.4	2,073.8	1,991.7	82.15	25.246	
14,700.0	10,559.0	12,735.1	8,590.0	77.6	74.8	-18.29	-4,081.1	423.1	2,073.8	1,990.0	83.82	24.741	
14,800.0	10,559.0	12,835.1	8,590.0	79.1	76.3	-18.29	-4,181.1	423.8	2,073.8	1,988.3	85.50	24.254	
14,900.0	10,559.0	12,935.1	8,590.0	80.5	77.9	-18.29	-4,281.1	424.5	2,073.8	1,986.6	87.19	23.784	
15,000.0	10,559.0	13,035.1	8,590.0	82.0	79.4	-18.29	-4,381.1	425.2	2,073.8	1,984.9	88.89	23.331	
15,100.0	10,559.0	13,135.1	8,590.0	83.5	80.9	-18.29	-4,481.1	425.9	2,073.8	1,983.2	90.58	22.894	
15,200.0	10,559.0	13,235.1	8,590.0	84.9	82.4	-18.29	-4,581.1	426.6	2,073.8	1,981.5	92.29	22.472	
15,300.0	10,559.0	13,335.1	8,590.0	86.4	84.0	-18.30	-4,681.1	427.3	2,073.8	1,979.8	93.99	22.064	
15,400.0	10,559.0	13,435.1	8,590.0	87.9	85.5	-18.30	-4,781.1	428.0	2,073.8	1,978.1	95.70	21.670	
15,500.0	10,559.0	13,535.1	8,590.0	89.4	87.0	-18.30	-4,881.1	428.7	2,073.8	1,976.4	97.42	21.288	
15,600.0	10,559.0	13,635.1	8,590.0	90.9	88.6	-18.30	-4,981.1	429.4	2,073.8	1,974.7	99.13	20.919	
15,700.0	10,559.0	13,735.1	8,590.0	92.4	90.1	-18.30	-5,081.1	430.1	2,073.8	1,973.0	100.86	20.562	
15,800.0	10,559.0	13,835.1	8,590.0	93.9	91.7	-18.30	-5,181.1	430.8	2,073.8	1,971.3	102.58	20.217	
15,900.0	10,559.0	13,935.1	8,590.0	95.5	93.2	-18.30	-5,281.1	431.5	2,073.8	1,969.5	104.31	19.882	
16,000.0	10,559.0	14,035.1	8,590.0	97.0	94.8	-18.30	-5,381.1	432.2	2,073.8	1,967.8	106.04	19.557	
16,100.0	10,559.0	14,135.1	8,590.0	98.5	96.4	-18.30	-5,481.1	432.9	2,073.8	1,966.1	107.77	19.243	
16,200.0	10,559.0	14,235.1	8,590.0	100.0	97.9	-18.30	-5,581.1	433.6	2,073.8	1,964.3	109.51	18.938	
16,300.0	10,559.0	14,335.1	8,590.0	101.6	99.5	-18.30	-5,681.1	434.3	2,073.8	1,962.6	111.25	18.642	
16,400.0	10,559.0	14,435.1	8,590.0	103.1	101.1	-18.30	-5,781.1	435.0	2,073.8	1,960.8	112.99	18.354	
16,500.0	10,559.0	14,535.1	8,590.0	104.6	102.6	-18.30	-5,881.1	435.7	2,073.8	1,959.1	114.73	18.075	
16,600.0	10,559.0	14,635.1	8,590.0	106.2	104.2	-18.30	-5,981.1	436.4	2,073.8	1,957.4	116.48	17.804	
16,700.0	10,559.0	14,735.1	8,590.0	107.7	105.8	-18.30	-6,081.1	437.1	2,073.8	1,955.6	118.23	17.541	
16,800.0	10,559.0	14,835.1	8,590.0	109.3	107.4	-18.30	-6,181.1	437.8	2,073.8	1,953.9	119.98	17.285	
16,900.0	10,559.0	14,935.1	8,590.0	110.8	109.0	-18.30	-6,281.1	438.5	2,073.8	1,952.1	121.73	17.036	
17,000.0	10,559.0	15,035.1	8,590.0	112.4	110.5	-18.30	-6,381.1	439.2	2,073.8	1,950.4	123.48	16.794	
17,100.0	10,559.0	15,135.1	8,590.0	113.9	112.1	-18.30	-6,481.0	439.9	2,073.8	1,948.6	125.24	16.559	
17,200.0	10,559.0	15,235.1	8,590.0	115.5	113.7	-18.30	-6,581.0	440.6	2,073.8	1,946.9	127.00	16.330	
17,300.0	10,559.0	15,335.1	8,590.0	117.1	115.3	-18.30	-6,681.0	441.3	2,073.8	1,945.1	128.76	16.107	
17,400.0	10,559.0	15,435.1	8,590.0	118.6	116.9	-18.30	-6,781.0	442.0	2,073.9	1,943.3	130.52	15.890	
17,500.0	10,559.0	15,535.1	8,590.0	120.2	118.5	-18.30	-6,881.0	442.7	2,073.9	1,941.6	132.28	15.678	
17,600.0	10,559.0	15,635.1	8,590.0	121.8	120.1	-18.30	-6,981.0	443.4	2,073.9	1,939.8	134.04	15.472	
17,700.0	10,559.0	15,735.1	8,590.0	123.3	121.7	-18.30	-7,081.0	444.1	2,073.9	1,938.0	135.81	15.270	
17,800.0	10,559.0	15,835.1	8,590.0	124.9	123.3	-18.30	-7,181.0	444.8	2,073.9	1,936.3	137.57	15.074	
17,900.0	10,559.0	15,935.1	8,590.0	126.5	124.9	-18.30	-7,281.0	445.5	2,073.9	1,934.5	139.34	14.883	
18,000.0	10,559.0	16,035.1	8,590.0	128.1	126.5	-18.30	-7,381.0	446.2	2,073.9	1,932.7	141.11	14.697	
18,100.0	10,559.0	16,135.1	8,590.0	129.7	128.1	-18.30	-7,481.0	446.9	2,073.9	1,931.0	142.88	14.515	
18,200.0	10,559.0	16,235.1	8,590.0	131.2	129.7	-18.30	-7,581.0	447.6	2,073.9	1,929.2	144.65	14.337	
18,300.0	10,559.0	16,335.1	8,590.0	132.8	131.3	-18.30	-7,681.0	448.3	2,073.9	1,927.4	146.43	14.163	
18,400.0	10,559.0	16,435.1	8,590.0	134.4	132.9	-18.30	-7,781.0	449.0	2,073.9	1,925.7	148.20	13.994	
18,500.0	10,559.0	16,535.1	8,590.0	136.0	134.5	-18.30	-7,881.0	449.7	2,073.9	1,923.9	149.97	13.828	
18,600.0	10,559.0	16,635.1	8,590.0	137.6	136.1	-18.30	-7,981.0	450.4	2,073.9	1,922.1	151.75	13.666	
18,700.0	10,559.0	16,735.1	8,590.0	139.2	137.7	-18.30	-8,081.0	451.1	2,073.9	1,920.3	153.53	13.508	
18,800.0	10,559.0	16,835.1	8,590.0	140.8	139.3	-18.30	-8,181.0	451.8	2,073.9	1,918.6	155.30	13.354	
18,900.0	10,559.0	16,935.1	8,590.0	142.4	141.0	-18.30	-8,281.0	452.5	2,073.9	1,916.8	157.08	13.202	
19,000.0	10,559.0	17,035.1	8,590.0	144.0	142.6	-18.30	-8,381.0	453.2	2,073.9	1,915.0	158.86	13.055	
19,100.0	10,559.0	17,135.1	8,590.0	145.6	144.2	-18.30	-8,481.0	453.9	2,073.9	1,913.2	160.64	12.910	
19,200.0	10,559.0	17,235.1	8,590.0	147.2	145.8	-18.30	-8,581.0	454.6	2,073.9	1,911.4	162.42	12.768	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #105H - 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	10,559.0	17,335.1	8,590.0	148.7	147.4	-18.30	-8,681.0	455.3	2,073.9	1,909.7	164.21	12.630	
19,400.0	10,559.0	17,435.1	8,590.0	150.3	149.0	-18.30	-8,781.0	456.0	2,073.9	1,907.9	165.99	12.494	
19,500.0	10,559.0	17,535.1	8,590.0	151.9	150.6	-18.30	-8,881.0	456.7	2,073.9	1,906.1	167.77	12.361	
19,600.0	10,559.0	17,635.1	8,590.0	153.6	152.3	-18.30	-8,981.0	457.4	2,073.9	1,904.3	169.56	12.231	
19,700.0	10,559.0	17,735.1	8,590.0	155.2	153.9	-18.30	-9,081.0	458.1	2,073.9	1,902.5	171.34	12.104	
19,800.0	10,559.0	17,835.1	8,590.0	156.8	155.5	-18.30	-9,181.0	458.8	2,073.9	1,900.8	173.13	11.979	
19,900.0	10,559.0	17,935.1	8,590.0	158.4	157.1	-18.30	-9,281.0	459.5	2,073.9	1,899.0	174.91	11.857	
20,000.0	10,559.0	18,035.1	8,590.0	160.0	158.7	-18.30	-9,381.0	460.2	2,073.9	1,897.2	176.70	11.737	
20,100.0	10,559.0	18,135.1	8,590.0	161.6	160.4	-18.30	-9,481.0	460.9	2,073.9	1,895.4	178.49	11.619	
20,200.0	10,559.0	18,235.1	8,590.0	163.2	162.0	-18.30	-9,581.0	461.6	2,073.9	1,893.6	180.27	11.504	
20,300.0	10,559.0	18,335.1	8,590.0	164.8	163.6	-18.30	-9,681.0	462.3	2,073.9	1,891.8	182.06	11.391	
20,400.0	10,559.0	18,435.1	8,590.0	166.4	165.2	-18.30	-9,781.0	463.0	2,073.9	1,890.0	183.85	11.280	
20,500.0	10,559.0	18,535.1	8,590.0	168.0	166.8	-18.30	-9,881.0	463.7	2,073.9	1,888.2	185.64	11.172	
20,600.0	10,559.0	18,635.1	8,590.0	169.6	168.5	-18.30	-9,981.0	464.4	2,073.9	1,886.5	187.43	11.065	
20,700.0	10,559.0	18,735.1	8,590.0	171.2	170.1	-18.30	-10,081.0	465.1	2,073.9	1,884.7	189.22	10.960	
20,800.0	10,559.0	18,835.1	8,590.0	172.8	171.7	-18.30	-10,181.0	465.8	2,073.9	1,882.9	191.01	10.857	
20,900.0	10,559.0	18,935.1	8,590.0	174.5	173.3	-18.30	-10,281.0	466.5	2,073.9	1,881.1	192.80	10.756	
21,000.0	10,559.0	19,035.1	8,590.0	176.1	175.0	-18.30	-10,381.0	467.2	2,073.9	1,879.3	194.60	10.657	
21,100.0	10,559.0	19,135.1	8,590.0	177.7	176.6	-18.30	-10,481.0	467.9	2,073.9	1,877.5	196.39	10.560	
21,200.0	10,559.0	19,235.1	8,590.0	179.3	178.2	-18.30	-10,580.9	468.6	2,073.9	1,875.7	198.18	10.465	
21,300.0	10,559.0	19,335.1	8,590.0	180.9	179.8	-18.30	-10,680.9	469.3	2,073.9	1,873.9	199.98	10.371	
21,400.0	10,559.0	19,435.1	8,590.0	182.5	181.5	-18.30	-10,780.9	470.0	2,073.9	1,872.1	201.77	10.279	
21,500.0	10,559.0	19,535.1	8,590.0	184.2	183.1	-18.30	-10,880.9	470.7	2,073.9	1,870.3	203.56	10.188	
21,600.0	10,559.0	19,635.1	8,590.0	185.8	184.7	-18.30	-10,980.9	471.4	2,073.9	1,868.5	205.36	10.099	
21,700.0	10,559.0	19,735.1	8,590.0	187.4	186.4	-18.30	-11,080.9	472.1	2,073.9	1,866.7	207.15	10.011	
21,800.0	10,559.0	19,835.1	8,590.0	189.0	188.0	-18.30	-11,180.9	472.8	2,073.9	1,865.0	208.95	9.925	
21,900.0	10,559.0	19,935.1	8,590.0	190.6	189.6	-18.30	-11,280.9	473.5	2,073.9	1,863.2	210.75	9.841	
22,000.0	10,559.0	20,035.1	8,590.0	192.3	191.2	-18.30	-11,380.9	474.2	2,073.9	1,861.4	212.54	9.758	
22,100.0	10,559.0	20,135.1	8,590.0	193.9	192.9	-18.30	-11,480.9	474.9	2,073.9	1,859.6	214.34	9.676	
22,200.0	10,559.0	20,235.1	8,590.0	195.5	194.5	-18.30	-11,580.9	475.6	2,073.9	1,857.8	216.14	9.595	
22,300.0	10,559.0	20,335.1	8,590.0	197.1	196.1	-18.30	-11,680.9	476.3	2,073.9	1,856.0	217.93	9.516	
22,400.0	10,559.0	20,435.1	8,590.0	198.7	197.8	-18.30	-11,780.9	477.0	2,073.9	1,854.2	219.73	9.438	
22,500.0	10,559.0	20,535.1	8,590.0	200.4	199.4	-18.30	-11,880.9	477.7	2,073.9	1,852.4	221.53	9.362	
22,600.0	10,559.0	20,635.1	8,590.0	202.0	201.0	-18.30	-11,980.9	478.4	2,073.9	1,850.6	223.33	9.286	
22,700.0	10,559.0	20,735.1	8,590.0	203.6	202.7	-18.30	-12,080.9	479.1	2,073.9	1,848.8	225.13	9.212	
22,800.0	10,559.0	20,835.1	8,590.0	205.2	204.3	-18.30	-12,180.9	479.8	2,073.9	1,847.0	226.92	9.139	
22,900.0	10,559.0	20,935.1	8,590.0	206.9	205.9	-18.30	-12,280.9	480.5	2,073.9	1,845.2	228.72	9.067	
23,000.0	10,559.0	21,035.1	8,590.0	208.5	207.6	-18.30	-12,380.9	481.2	2,073.9	1,843.4	230.52	8.997	
23,028.2	10,559.0	21,063.3	8,590.0	208.9	208.0	-18.30	-12,409.1	481.4	2,073.9	1,842.9	231.03	8.977	
23,028.8	10,559.0	21,063.9	8,590.0	209.0	208.0	-18.30	-12,409.7	481.5	2,073.9	1,842.9	231.04	8.976	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #111H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 234-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	-90.31	-1.2	-220.1	220.1				
100.0	100.0	101.7	101.7	0.1	0.2	-90.34	-1.3	-220.1	220.1	219.8	0.29	762.801	
200.0	200.0	201.5	201.5	0.5	0.3	-90.45	-1.7	-220.3	220.3	219.5	0.80	273.954	
300.0	300.0	301.9	301.8	0.8	0.6	-90.60	-2.3	-220.5	220.5	219.1	1.45	151.706	
400.0	400.0	402.5	402.5	1.2	1.0	-90.69	-2.7	-220.4	220.4	218.3	2.17	101.681	
500.0	500.0	503.6	503.6	1.6	1.3	-90.67	-2.6	-219.9	220.0	217.1	2.88	76.432	
600.0	600.0	604.6	604.6	1.9	1.7	-90.43	-1.6	-219.0	219.0	215.4	3.59	61.053	
700.0	700.0	705.3	705.2	2.3	2.0	-89.92	0.3	-217.6	217.7	213.4	4.30	50.676	
800.0	800.0	805.8	805.7	2.6	2.4	-89.06	3.6	-216.0	216.1	211.1	5.00	43.188	
900.0	900.0	903.1	902.9	3.0	2.7	-87.91	7.8	-215.0	215.2	209.4	5.70	37.715	
935.1	935.1	937.4	937.1	3.1	2.8	-87.44	9.6	-214.9	215.1	209.1	5.95	36.139	
1,000.0	1,000.0	1,001.2	1,000.8	3.4	3.1	-86.49	13.2	-214.9	215.3	208.9	6.41	33.587	
1,100.0	1,100.0	1,100.3	1,099.8	3.7	3.4	-85.07	18.6	-215.3	216.1	209.0	7.12	30.341	
1,200.0	1,200.0	1,199.9	1,199.3	4.1	3.8	-83.84	23.3	-215.9	217.2	209.4	7.84	27.720	
1,300.0	1,300.0	1,300.6	1,299.9	4.4	4.1	-82.67	27.9	-216.6	218.4	209.8	8.56	25.523	
1,400.0	1,400.0	1,401.7	1,400.8	4.8	4.5	-81.03	34.2	-216.4	219.1	209.8	9.28	23.612	
1,500.0	1,500.0	1,501.4	1,500.2	5.1	4.9	-79.15	41.4	-215.8	219.7	209.7	10.00	21.971	
1,600.0	1,600.0	1,600.8	1,599.4	5.5	5.2	-60.55	48.1	-215.4	220.3	209.6	10.72	20.547	
1,700.0	1,700.0	1,700.2	1,698.6	5.9	5.6	-59.56	54.3	-215.4	220.4	208.9	11.44	19.260	
1,800.0	1,799.9	1,799.6	1,797.8	6.2	5.9	-59.10	60.1	-215.7	219.8	207.7	12.16	18.077	
1,900.0	1,899.7	1,900.7	1,898.7	6.6	6.3	-58.87	66.5	-215.8	218.3	205.4	12.89	16.933	
2,000.0	1,999.4	2,001.6	1,999.3	6.9	6.7	-58.59	74.5	-215.0	215.4	201.7	13.62	15.810	
2,100.0	2,098.9	2,101.9	2,099.3	7.3	7.1	-58.78	82.0	-213.9	211.2	196.9	14.35	14.716	
2,200.0	2,198.3	2,202.3	2,199.5	7.7	7.4	-59.77	88.4	-213.0	206.0	191.0	15.09	13.654	
2,300.0	2,297.4	2,303.2	2,300.2	8.0	7.8	-61.13	95.1	-211.5	199.6	183.7	15.83	12.606	
2,400.0	2,396.4	2,404.0	2,400.6	8.4	8.2	-62.43	102.7	-209.1	192.1	175.6	16.58	11.592	
2,500.0	2,495.5	2,504.4	2,500.7	8.8	8.6	-63.72	110.6	-206.3	184.3	167.0	17.33	10.640	
2,600.0	2,594.5	2,604.7	2,600.7	9.2	8.9	-65.11	118.4	-202.9	176.2	158.1	18.08	9.747	
2,700.0	2,693.5	2,705.0	2,700.6	9.6	9.3	-66.73	125.9	-199.2	167.8	148.9	18.83	8.908	
2,800.0	2,792.5	2,804.3	2,799.6	10.0	9.7	-68.66	132.9	-195.3	159.2	139.6	19.59	8.128	
2,900.0	2,891.6	2,903.0	2,898.0	10.3	10.0	-71.10	139.1	-191.9	151.3	130.9	20.34	7.437	
3,000.0	2,990.6	3,001.6	2,996.5	10.7	10.4	-74.08	144.5	-189.1	144.3	123.2	21.10	6.838	
3,100.0	3,089.6	3,100.3	3,095.0	11.1	10.8	-77.54	149.4	-186.8	138.2	116.4	21.86	6.325	
3,200.0	3,188.6	3,201.2	3,195.7	11.5	11.1	-81.44	154.4	-184.4	132.7	110.1	22.61	5.869	
3,300.0	3,287.7	3,302.8	3,297.1	11.9	11.5	-85.50	160.1	-180.4	126.2	102.8	23.36	5.403	
3,400.0	3,386.7	3,402.3	3,396.3	12.3	11.9	-90.06	165.6	-175.4	119.4	95.2	24.11	4.951	
3,500.0	3,485.7	3,501.2	3,495.0	12.7	12.2	-95.79	169.8	-170.1	113.6	88.7	24.85	4.572	
3,600.0	3,584.8	3,601.0	3,594.5	13.1	12.6	-103.08	172.4	-163.9	109.0	83.5	25.55	4.266	
3,653.6	3,637.9	3,654.2	3,647.5	13.3	12.8	-107.72	173.1	-159.8	107.1	81.2	25.93	4.133	
3,700.0	3,683.8	3,700.0	3,693.2	13.5	12.9	-111.98	173.2	-155.9	105.9	79.7	26.24	4.037	
3,800.0	3,783.2	3,798.8	3,791.7	13.9	13.3	-119.76	174.5	-148.3	104.4	77.5	26.92	3.877	
3,900.0	3,882.8	3,898.7	3,891.4	14.3	13.6	-124.77	178.2	-142.9	102.7	75.1	27.60	3.722	
4,000.0	3,982.6	3,998.1	3,990.6	14.7	14.0	-127.15	183.5	-139.8	100.2	71.9	28.31	3.540	
4,100.0	4,082.5	4,097.8	4,090.0	15.0	14.4	-126.96	190.1	-138.9	96.5	67.5	29.03	3.324	
4,187.0	4,169.5	4,184.3	4,176.4	15.3	14.7	-142.35	196.0	-138.8	92.3	62.6	29.66	3.112	
4,200.0	4,182.5	4,197.3	4,189.3	15.4	14.7	-142.02	196.8	-138.8	91.6	61.9	29.76	3.079	
4,300.0	4,282.5	4,296.8	4,288.6	15.7	15.1	-139.35	203.3	-138.9	86.6	56.1	30.49	2.841	
4,400.0	4,382.5	4,396.4	4,388.1	16.1	15.5	-136.53	209.4	-138.9	82.1	50.9	31.22	2.629	
4,500.0	4,482.5	4,496.0	4,487.4	16.4	15.8	-133.62	215.2	-138.9	78.0	46.0	31.96	2.440	
4,600.0	4,582.5	4,595.3	4,586.6	16.7	16.2	-130.44	220.5	-139.3	74.7	42.0	32.69	2.284	
4,700.0	4,682.5	4,695.0	4,686.2	17.1	16.6	-126.98	225.6	-140.1	72.1	38.7	33.43	2.158	
4,800.0	4,782.5	4,795.1	4,786.1	17.4	16.9	-123.30	230.7	-140.8	69.7	35.6	34.16	2.042	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #111H - Wellbore #1 - Actual — **Offset Site Error:** 0.0 usft

Survey Program: 234-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	4,882.5	4,894.9	4,885.8	17.8	17.3	-119.43	235.8	-141.3	67.5	32.6	34.90	1.935	
5,000.0	4,982.5	4,994.5	4,985.3	18.1	17.6	-115.63	240.4	-142.0	65.9	30.3	35.63	1.851	
5,100.0	5,082.5	5,094.3	5,085.0	18.5	18.0	-111.93	244.7	-142.7	64.9	28.6	36.36	1.786	
5,200.0	5,182.5	5,194.0	5,184.7	18.8	18.4	-108.20	248.8	-143.7	64.4	27.3	37.08	1.737	
5,267.4	5,249.9	5,261.3	5,251.9	19.1	18.6	-105.69	251.6	-144.4	64.3	26.8	37.57	1.712	CC
5,300.0	5,282.5	5,293.9	5,284.4	19.2	18.7	-104.48	252.9	-144.8	64.3	26.5	37.81	1.702	
5,400.0	5,382.5	5,393.7	5,384.2	19.5	19.1	-100.78	256.9	-146.0	64.7	26.2	38.52	1.679	
5,500.0	5,482.5	5,493.8	5,484.1	19.9	19.4	-97.36	260.6	-147.2	65.2	26.0	39.23	1.663	
5,600.0	5,582.5	5,593.9	5,584.2	20.2	19.8	-94.53	263.8	-148.0	65.7	25.8	39.94	1.645	
5,700.0	5,682.5	5,693.8	5,684.1	20.6	20.1	-92.13	266.5	-148.7	66.3	25.6	40.65	1.630	
5,800.0	5,782.5	5,793.7	5,783.9	20.9	20.5	-90.06	268.9	-149.5	67.0	25.7	41.35	1.621	
5,900.0	5,882.5	5,893.5	5,883.7	21.3	20.8	-88.38	270.9	-150.5	68.1	26.0	42.05	1.619	
6,000.0	5,982.5	5,993.3	5,983.5	21.6	21.2	-87.11	272.4	-151.8	69.3	26.6	42.74	1.622	
6,100.0	6,082.5	6,092.9	6,083.1	22.0	21.5	-86.21	273.6	-153.4	71.1	27.6	43.43	1.636	
6,200.0	6,182.5	6,193.0	6,183.1	22.3	21.9	-85.70	274.4	-155.5	73.2	29.1	44.12	1.660	
6,300.0	6,282.5	6,294.0	6,284.2	22.7	22.2	-86.26	273.8	-156.7	74.4	29.5	44.81	1.659	
6,400.0	6,382.5	6,394.5	6,384.6	23.0	22.5	-87.93	271.6	-156.7	74.3	28.8	45.50	1.632	
6,443.2	6,425.7	6,437.6	6,427.7	23.2	22.7	-88.70	270.6	-156.7	74.2	28.4	45.79	1.621	
6,500.0	6,482.5	6,494.2	6,484.3	23.4	22.9	-89.66	269.4	-156.8	74.3	28.1	46.17	1.609	
6,600.0	6,582.5	6,594.4	6,584.4	23.7	23.2	-91.27	267.3	-157.0	74.5	27.7	46.85	1.591	
6,700.0	6,682.5	6,694.7	6,684.8	24.1	23.5	-92.91	265.2	-156.8	74.4	26.8	47.53	1.565	
6,800.0	6,782.5	6,795.0	6,785.0	24.4	23.8	-94.58	263.1	-156.0	73.8	25.6	48.21	1.530	
6,900.0	6,882.5	6,895.1	6,885.1	24.8	24.2	-96.14	261.2	-155.1	73.0	24.1	48.89	1.493	Level 3
7,000.0	6,982.5	6,995.1	6,985.1	25.1	24.5	-97.59	259.4	-154.0	72.1	22.5	49.57	1.454	Level 3
7,100.0	7,082.5	7,095.1	7,085.0	25.5	24.8	-98.93	257.9	-152.9	71.3	21.0	50.26	1.418	Level 3
7,200.0	7,182.5	7,195.0	7,185.0	25.8	25.2	-100.19	256.5	-152.0	70.6	19.6	50.94	1.385	Level 3
7,300.0	7,282.5	7,294.9	7,284.9	26.2	25.5	-101.42	255.1	-151.1	70.0	18.4	51.62	1.356	Level 3
7,400.0	7,382.5	7,394.8	7,384.7	26.5	25.8	-102.69	253.7	-150.4	69.6	17.2	52.31	1.330	Level 3
7,500.0	7,482.5	7,494.7	7,484.6	26.9	26.2	-104.08	252.1	-149.7	69.3	16.3	52.99	1.308	Level 3
7,600.0	7,582.5	7,594.8	7,584.7	27.3	26.5	-105.60	250.4	-149.1	69.1	15.4	53.68	1.287	Level 3
7,700.0	7,682.5	7,694.8	7,684.7	27.6	26.8	-107.28	248.5	-148.2	68.8	14.4	54.36	1.265	Level 3
7,800.0	7,782.5	7,794.8	7,784.7	28.0	27.2	-109.01	246.6	-147.3	68.5	13.5	55.05	1.245	Level 2
7,900.0	7,882.5	7,894.7	7,884.6	28.3	27.5	-110.74	244.7	-146.4	68.4	12.6	55.73	1.227	Level 2
7,954.4	7,936.9	7,949.0	7,938.9	28.5	27.7	-111.62	243.8	-146.0	68.3	12.2	56.10	1.218	Level 2
8,000.0	7,982.5	7,994.6	7,984.4	28.7	27.8	-112.31	243.0	-145.7	68.3	11.9	56.41	1.212	Level 2
8,100.0	8,082.5	8,094.5	8,084.3	29.0	28.2	-113.63	241.5	-145.3	68.5	11.4	57.10	1.200	Level 2
8,200.0	8,182.5	8,194.3	8,184.1	29.4	28.5	-114.71	240.1	-145.1	69.0	11.2	57.78	1.193	Level 2
8,300.0	8,282.5	8,294.3	8,284.1	29.7	28.8	-115.50	239.0	-145.3	69.6	11.1	58.47	1.191	Level 2
8,400.0	8,382.5	8,394.2	8,384.0	30.1	29.2	-115.86	238.3	-145.7	70.2	11.1	59.16	1.187	Level 2, ES, SF
8,500.0	8,482.5	8,491.7	8,481.3	30.4	29.5	-118.95	234.0	-145.7	72.3	12.5	59.75	1.210	Level 2
8,600.0	8,582.5	8,581.9	8,569.9	30.8	29.8	-129.23	217.7	-145.3	82.4	23.0	59.38	1.387	Level 3
8,700.0	8,682.5	8,666.9	8,650.4	31.1	30.0	-140.20	190.6	-147.8	107.6	49.8	57.77	1.862	
8,800.0	8,782.5	8,745.6	8,722.2	31.5	30.2	-147.57	158.5	-152.7	144.9	89.3	55.61	2.606	
8,900.0	8,882.5	8,815.0	8,781.6	31.9	30.4	-153.14	123.0	-156.4	193.3	140.4	52.88	3.655	
9,000.0	8,982.5	8,876.6	8,830.8	32.2	30.6	-157.41	86.1	-158.6	250.7	200.5	50.16	4.998	
9,100.0	9,082.5	8,927.8	8,868.8	32.6	30.7	-160.50	51.8	-159.4	315.6	268.3	47.24	6.680	
9,200.0	9,182.5	8,970.6	8,898.0	32.9	30.8	-162.77	20.6	-159.5	386.9	342.4	44.49	8.697	
9,300.0	9,282.5	8,987.0	8,908.6	33.3	30.8	-163.57	8.0	-159.4	464.0	423.7	40.27	11.522	
9,400.0	9,382.5	9,032.2	8,935.4	33.6	30.9	-165.46	-28.3	-159.6	544.1	504.6	39.51	13.772	
9,500.0	9,482.5	9,055.4	8,947.7	34.0	31.0	-166.26	-48.0	-160.0	628.1	590.6	37.54	16.730	
9,600.0	9,582.5	9,082.0	8,960.7	34.3	31.1	-167.05	-71.2	-160.8	714.9	678.5	36.33	19.678	
9,700.0	9,682.5	9,082.0	8,960.7	34.7	31.1	-167.05	-71.2	-160.8	803.6	769.6	34.03	23.616	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #111H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 234-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,800.0	9,782.5	9,112.1	8,973.8	35.1	31.2	-167.80	-98.2	-161.9	893.5	859.8	33.71	26.508	
9,900.0	9,882.5	9,127.8	8,980.2	35.4	31.2	-168.15	-112.6	-162.6	984.8	951.9	32.90	29.935	
10,000.0	9,982.5	9,141.8	8,985.5	35.8	31.2	-168.44	-125.6	-163.2	1,077.1	1,044.8	32.23	33.419	
10,003.5	9,986.0	9,142.3	8,985.7	35.8	31.2	-168.45	-126.0	-163.2	1,080.3	1,048.1	32.21	33.543	
10,050.0	10,032.4	9,148.9	8,988.1	35.9	31.3	0.10	-132.1	-163.6	1,122.8	1,090.9	31.90	35.201	
10,100.0	10,082.0	9,177.0	8,997.6	36.1	31.3	-0.27	-158.5	-165.1	1,167.5	1,135.2	32.21	36.242	
10,150.0	10,130.9	9,177.0	8,997.6	36.2	31.3	-0.23	-158.5	-165.1	1,209.4	1,177.9	31.45	38.457	
10,200.0	10,178.7	9,177.0	8,997.6	36.4	31.3	-0.21	-158.5	-165.1	1,249.5	1,218.9	30.66	40.755	
10,250.0	10,225.0	9,177.0	8,997.6	36.5	31.3	-0.19	-158.5	-165.1	1,287.7	1,257.8	29.86	43.125	
10,300.0	10,269.4	9,202.7	9,005.4	36.6	31.4	-0.37	-183.0	-166.5	1,323.2	1,293.5	29.78	44.429	
10,350.0	10,311.8	9,217.8	9,009.6	36.7	31.5	-0.45	-197.4	-167.2	1,356.3	1,327.0	29.35	46.206	
10,400.0	10,351.6	9,233.5	9,013.7	36.8	31.5	-0.53	-212.6	-168.0	1,386.7	1,357.8	28.92	47.952	
10,450.0	10,388.7	9,272.0	9,022.8	36.9	31.6	-0.75	-249.9	-169.8	1,414.7	1,385.7	29.02	48.743	
10,500.0	10,422.7	9,272.0	9,022.8	37.0	31.6	-0.72	-249.9	-169.8	1,438.9	1,410.7	28.18	51.055	
10,550.0	10,453.3	9,272.0	9,022.8	37.1	31.6	-0.69	-249.9	-169.8	1,460.6	1,433.2	27.42	53.272	
10,600.0	10,480.4	9,300.4	9,028.4	37.2	31.7	-0.84	-277.8	-170.9	1,479.0	1,451.7	27.27	54.243	
10,650.0	10,503.8	9,320.0	9,031.8	37.3	31.8	-0.95	-297.1	-171.3	1,494.4	1,467.4	26.96	55.436	
10,700.0	10,523.2	9,347.8	9,036.1	37.4	31.9	-1.13	-324.5	-171.5	1,506.4	1,479.6	26.82	56.169	
10,750.0	10,538.5	9,367.0	9,038.9	37.5	32.0	-1.25	-343.5	-171.4	1,514.8	1,488.2	26.57	57.004	
10,800.0	10,549.6	9,367.0	9,038.9	37.6	32.0	-1.24	-343.5	-171.4	1,520.3	1,494.1	26.15	58.148	
10,850.0	10,556.5	9,407.3	9,043.8	37.7	32.2	-1.55	-383.5	-171.0	1,521.5	1,495.2	26.28	57.895	
10,900.0	10,558.9	9,424.1	9,045.2	37.9	32.2	-1.69	-400.3	-170.7	1,520.0	1,493.8	26.20	58.026	
10,903.5	10,559.0	9,425.3	9,045.2	37.9	32.2	-1.70	-401.4	-170.7	1,519.8	1,493.6	26.19	58.024	
11,000.0	10,559.0	9,463.0	9,047.1	38.2	32.4	-1.89	-439.1	-169.9	1,515.4	1,489.1	26.30	57.618	
11,100.0	10,559.0	9,518.7	9,047.9	38.5	32.7	-2.19	-494.8	-169.3	1,514.2	1,487.4	26.75	56.605	
11,102.0	10,559.0	9,520.1	9,047.9	38.5	32.7	-2.20	-496.2	-169.2	1,514.2	1,487.4	26.76	56.581	
11,200.0	10,559.0	9,597.6	9,047.5	38.9	33.1	-2.51	-573.7	-169.8	1,515.0	1,487.6	27.39	55.312	
11,300.0	10,559.0	9,687.0	9,046.6	39.4	33.6	-2.80	-663.1	-169.8	1,516.4	1,488.3	28.12	53.926	
11,400.0	10,559.0	9,768.4	9,045.0	40.0	34.1	-3.03	-744.4	-168.2	1,518.7	1,489.8	28.91	52.537	
11,488.5	10,559.0	9,835.9	9,042.7	40.5	34.5	-3.09	-811.9	-168.8	1,521.8	1,492.1	29.64	51.348	
11,500.0	10,559.0	9,844.6	9,042.3	40.5	34.6	-3.07	-820.6	-169.1	1,522.2	1,492.5	29.73	51.195	
11,600.0	10,559.0	9,920.1	9,038.3	41.2	35.2	-2.97	-896.0	-171.0	1,527.3	1,496.7	30.62	49.872	
11,700.0	10,559.0	9,998.0	9,033.1	41.9	35.8	-2.91	-973.7	-171.8	1,533.9	1,502.3	31.58	48.572	
11,800.0	10,559.0	10,180.7	9,023.6	42.6	37.3	-2.95	-1,156.1	-169.1	1,539.7	1,507.1	32.57	47.270	
11,900.0	10,559.0	10,324.2	9,023.6	43.4	38.7	-3.15	-1,299.4	-162.8	1,539.7	1,505.9	33.80	45.559	
11,922.4	10,559.0	10,332.3	9,023.6	43.6	38.8	-3.16	-1,307.5	-162.5	1,539.7	1,505.7	33.98	45.307	
12,000.0	10,559.0	10,379.0	9,023.2	44.3	39.2	-3.20	-1,354.2	-161.0	1,540.4	1,505.7	34.74	44.346	
12,100.0	10,559.0	10,472.5	9,020.6	45.2	40.2	-3.15	-1,447.7	-161.4	1,543.2	1,507.4	35.83	43.066	
12,200.0	10,559.0	10,578.5	9,018.1	46.1	41.3	-2.98	-1,553.5	-165.3	1,545.3	1,508.3	36.98	41.791	
12,300.0	10,559.0	10,693.5	9,016.0	47.1	42.5	-2.82	-1,668.4	-168.7	1,546.9	1,508.8	38.19	40.511	
12,400.0	10,559.0	10,782.2	9,014.6	48.1	43.5	-2.74	-1,757.2	-170.1	1,548.4	1,509.0	39.35	39.349	
12,500.0	10,559.0	10,863.7	9,012.6	49.1	44.5	-2.72	-1,838.6	-170.0	1,550.8	1,510.2	40.53	38.266	
12,600.0	10,559.0	10,947.5	9,009.7	50.2	45.5	-2.72	-1,922.4	-169.2	1,554.3	1,512.6	41.74	37.239	
12,700.0	10,559.0	11,146.3	9,008.8	51.3	47.9	-2.79	-2,121.1	-165.9	1,554.4	1,511.0	43.42	35.803	
12,800.0	10,559.0	11,282.2	9,013.4	52.4	49.7	-2.86	-2,256.8	-163.3	1,551.1	1,506.2	44.94	34.519	
12,900.0	10,559.0	11,367.1	9,016.8	53.6	50.8	-2.89	-2,341.7	-162.1	1,547.2	1,501.0	46.17	33.509	
13,000.0	10,559.0	11,440.2	9,018.8	54.8	51.7	-2.86	-2,414.8	-162.6	1,544.4	1,497.0	47.36	32.612	
13,100.0	10,559.0	11,557.2	9,021.2	56.0	53.3	-2.74	-2,531.7	-165.1	1,542.2	1,493.5	48.78	31.618	
13,200.0	10,559.0	11,652.1	9,023.8	57.2	54.5	-2.71	-2,626.6	-165.3	1,539.5	1,489.4	50.11	30.723	
13,300.0	10,559.0	11,763.4	9,027.9	58.5	56.1	-2.78	-2,737.8	-162.8	1,535.8	1,484.2	51.56	29.789	
13,400.0	10,559.0	11,821.8	9,029.1	59.8	56.9	-2.80	-2,796.1	-161.8	1,533.7	1,481.0	52.73	29.085	
13,426.1	10,559.0	11,837.0	9,029.2	60.1	57.1	-2.80	-2,811.3	-161.7	1,533.6	1,480.6	53.04	28.912	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #111H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 234-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
13,500.0	10,559.0	11,881.7	9,028.7	61.0	57.7	-2.79	-2,856.0	-161.7	1,534.3	1,480.4	53.94	28.443	
13,600.0	10,559.0	11,947.1	9,026.5	62.4	58.6	-2.74	-2,921.3	-162.7	1,537.5	1,482.3	55.20	27.854	
13,700.0	10,559.0	12,036.6	9,022.5	63.7	59.8	-2.67	-3,010.8	-163.7	1,541.9	1,485.4	56.55	27.265	
13,800.0	10,559.0	12,113.6	9,018.2	65.0	60.9	-2.65	-3,087.6	-163.3	1,547.5	1,489.6	57.88	26.737	
13,900.0	10,559.0	12,248.8	9,011.4	66.4	62.9	-2.66	-3,222.7	-161.9	1,552.5	1,493.1	59.43	26.122	
14,000.0	10,559.0	12,350.0	9,007.3	67.7	64.3	-2.69	-3,323.8	-160.3	1,556.6	1,495.7	60.87	25.570	
14,100.0	10,559.0	12,452.7	9,003.5	69.1	65.8	-2.75	-3,426.4	-157.7	1,560.4	1,498.0	62.33	25.033	
14,200.0	10,559.0	12,634.3	9,000.6	70.5	68.5	-2.83	-3,607.9	-154.0	1,562.4	1,498.3	64.17	24.350	
14,300.0	10,559.0	12,750.3	9,003.2	71.9	70.2	-2.85	-3,723.9	-152.9	1,560.1	1,494.4	65.70	23.745	
14,400.0	10,559.0	12,829.6	9,004.8	73.3	71.3	-2.78	-3,803.1	-154.3	1,558.1	1,491.0	67.05	23.237	
14,452.5	10,559.0	12,864.1	9,005.0	74.1	71.9	-2.75	-3,837.6	-155.0	1,557.8	1,490.0	67.73	23.000	
14,500.0	10,559.0	12,896.2	9,004.8	74.8	72.3	-2.72	-3,869.7	-155.5	1,558.0	1,489.7	68.35	22.795	
14,600.0	10,559.0	12,968.4	9,003.4	76.2	73.4	-2.68	-3,941.9	-156.1	1,559.9	1,490.2	69.68	22.387	
14,700.0	10,559.0	13,057.7	9,000.5	77.6	74.7	-2.67	-4,031.1	-155.6	1,563.1	1,492.0	71.10	21.985	
14,800.0	10,559.0	14,800.0	8,998.4	79.1	101.2	-2.83	-4,200.9	-149.7	1,564.5	1,479.7	84.80	18.450	
14,900.0	10,559.0	13,325.8	9,000.5	80.5	78.8	-3.01	-4,298.9	-144.2	1,562.7	1,488.2	74.46	20.988	
14,938.0	10,559.0	13,350.0	9,000.7	81.1	79.2	-3.06	-4,323.0	-142.9	1,562.5	1,487.6	74.97	20.843	
15,000.0	10,559.0	13,381.6	9,000.4	82.0	79.7	-3.11	-4,354.6	-141.3	1,563.2	1,487.4	75.76	20.634	
15,100.0	10,559.0	13,443.0	8,998.2	83.5	80.6	-3.19	-4,415.9	-138.5	1,566.7	1,489.6	77.07	20.327	
15,200.0	10,559.0	13,631.5	8,996.5	84.9	83.5	-3.26	-4,604.3	-135.2	1,567.1	1,488.1	79.02	19.833	
15,300.0	10,559.0	13,731.8	8,997.6	86.4	85.0	-3.21	-4,704.6	-135.9	1,565.9	1,485.4	80.50	19.451	
15,400.0	10,559.0	13,829.9	8,998.8	87.9	86.5	-3.11	-4,802.7	-137.9	1,564.5	1,482.6	81.97	19.086	
15,465.5	10,559.0	13,877.8	8,999.1	88.9	87.2	-3.07	-4,850.6	-138.7	1,564.2	1,481.3	82.87	18.876	
15,500.0	10,559.0	13,904.0	8,999.0	89.4	87.6	-3.06	-4,876.8	-138.9	1,564.3	1,480.9	83.34	18.770	
15,600.0	10,559.0	13,972.5	8,997.8	90.9	88.7	-2.99	-4,945.3	-140.1	1,565.8	1,481.2	84.67	18.493	
15,700.0	10,559.0	14,053.0	8,994.9	92.4	89.9	-2.88	-5,025.6	-142.5	1,569.1	1,483.1	86.05	18.236	
15,800.0	10,559.0	14,137.3	8,991.2	93.9	91.2	-2.76	-5,109.8	-144.9	1,573.4	1,485.9	87.44	17.994	
15,900.0	10,559.0	14,231.5	8,986.2	95.5	92.7	-2.70	-5,203.9	-145.8	1,578.6	1,489.7	88.90	17.758	
16,000.0	10,559.0	14,341.3	8,981.0	97.0	94.4	-2.68	-5,313.5	-145.2	1,583.3	1,492.9	90.46	17.504	
16,100.0	10,559.0	14,470.8	8,976.1	98.5	96.4	-2.71	-5,442.9	-143.5	1,587.2	1,495.1	92.14	17.227	
16,200.0	10,559.0	14,551.5	8,973.5	100.0	97.7	-2.73	-5,523.6	-142.2	1,590.4	1,496.9	93.55	17.000	
16,300.0	10,559.0	14,695.2	8,970.1	101.6	99.9	-2.84	-5,667.2	-137.9	1,592.9	1,497.6	95.33	16.709	
16,400.0	10,559.0	14,811.9	8,969.0	103.1	101.8	-2.73	-5,783.8	-140.1	1,593.8	1,496.9	96.90	16.447	
16,443.3	10,559.0	14,871.7	8,969.2	103.8	102.7	-2.68	-5,843.6	-141.0	1,593.6	1,495.9	97.63	16.323	
16,500.0	10,559.0	14,894.7	8,968.9	104.6	103.1	-2.66	-5,866.7	-141.5	1,593.9	1,495.5	98.33	16.210	
16,600.0	10,559.0	14,962.1	8,967.2	106.2	104.1	-2.58	-5,934.0	-143.2	1,596.3	1,496.6	99.66	16.018	
16,700.0	10,559.0	15,175.8	8,966.4	107.7	107.5	-2.39	-6,147.5	-146.9	1,597.2	1,495.5	101.65	15.713	
16,800.0	10,559.0	15,274.6	8,970.5	109.3	109.0	-2.32	-6,246.3	-148.5	1,592.9	1,489.8	103.15	15.443	
16,900.0	10,559.0	15,367.3	8,973.5	110.8	110.5	-2.28	-6,338.9	-148.8	1,589.7	1,485.0	104.65	15.191	
17,000.0	10,559.0	15,480.8	8,978.1	112.4	112.3	-2.31	-6,452.3	-147.5	1,585.6	1,479.4	106.23	14.927	
17,100.0	10,559.0	15,581.9	8,982.5	113.9	113.9	-2.38	-6,553.4	-145.2	1,581.4	1,473.6	107.78	14.672	
17,200.0	10,559.0	15,707.3	8,988.7	115.5	115.9	-2.41	-6,678.5	-143.6	1,576.5	1,467.1	109.39	14.412	
17,300.0	10,559.0	15,813.5	8,995.2	117.1	117.6	-2.42	-6,784.6	-143.0	1,570.4	1,459.4	110.94	14.155	
17,400.0	10,559.0	15,855.9	8,996.8	118.6	118.3	-2.40	-6,826.9	-143.1	1,566.1	1,453.8	112.30	13.946	
17,482.9	10,559.0	15,897.0	8,997.3	119.9	118.9	-2.38	-6,868.0	-143.4	1,565.0	1,451.6	113.39	13.802	
17,500.0	10,559.0	15,911.3	8,997.3	120.2	119.2	-2.38	-6,882.3	-143.5	1,565.0	1,451.4	113.64	13.772	
17,600.0	10,559.0	15,992.0	8,996.9	121.8	120.4	-2.33	-6,963.0	-144.1	1,565.5	1,450.4	115.06	13.606	
17,700.0	10,559.0	16,053.9	8,995.5	123.3	121.4	-2.31	-7,024.8	-144.3	1,567.9	1,451.5	116.37	13.474	
17,800.0	10,559.0	16,121.8	8,992.0	124.9	122.5	-2.29	-7,092.7	-144.2	1,573.0	1,455.3	117.68	13.367	
17,900.0	10,559.0	16,225.6	8,985.6	126.5	124.2	-2.27	-7,196.3	-143.9	1,579.1	1,459.9	119.23	13.244	
18,000.0	10,559.0	16,324.3	8,980.4	128.1	125.7	-2.21	-7,294.9	-144.5	1,584.3	1,463.5	120.74	13.121	
18,100.0	10,559.0	16,502.4	8,973.4	129.7	128.6	-2.10	-7,472.8	-145.9	1,588.7	1,466.0	122.74	12.944	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #111H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 234-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,200.0	10,559.0	16,599.2	8,972.8	131.2	130.1	-2.17	-7,569.5	-143.4	1,589.4	1,465.1	124.28	12.789	
18,300.0	10,559.0	16,780.9	8,974.5	132.8	133.0	-2.04	-7,751.2	-145.9	1,588.9	1,462.8	126.10	12.600	
18,400.0	10,559.0	16,855.3	8,976.9	134.4	134.2	-1.95	-7,825.5	-147.8	1,585.6	1,458.0	127.55	12.431	
18,500.0	10,559.0	16,950.9	8,979.0	136.0	135.7	-1.84	-7,921.0	-150.2	1,583.2	1,454.2	129.05	12.269	
18,600.0	10,559.0	17,066.8	8,982.1	137.6	137.6	-1.75	-8,036.9	-152.0	1,580.4	1,449.8	130.62	12.100	
18,700.0	10,559.0	17,161.0	8,985.4	139.2	139.1	-1.75	-8,131.0	-151.6	1,577.0	1,444.8	132.14	11.934	
18,800.0	10,559.0	17,228.0	8,986.6	140.8	140.2	-1.77	-8,198.0	-150.6	1,575.2	1,441.6	133.57	11.792	
18,856.5	10,559.0	17,271.7	8,986.8	141.7	140.9	-1.79	-8,241.7	-149.7	1,575.0	1,440.6	134.39	11.719	
18,900.0	10,559.0	17,306.8	8,986.7	142.4	141.5	-1.82	-8,276.8	-148.8	1,575.1	1,440.0	135.03	11.664	
19,000.0	10,559.0	17,426.2	8,986.7	144.0	143.4	-1.96	-8,396.1	-144.0	1,575.2	1,438.5	136.71	11.523	
19,100.0	10,559.0	17,553.4	8,988.8	145.6	145.5	-2.03	-8,523.2	-141.1	1,573.7	1,435.3	138.38	11.372	
19,200.0	10,559.0	17,646.7	8,991.3	147.2	147.0	-2.07	-8,616.4	-139.4	1,571.0	1,431.1	139.91	11.229	
19,300.0	10,559.0	17,702.0	8,992.0	148.7	147.9	-2.11	-8,671.7	-138.0	1,570.1	1,428.8	141.28	11.114	
19,305.8	10,559.0	17,717.6	8,992.0	148.8	148.1	-2.13	-8,687.3	-137.5	1,570.0	1,428.6	141.42	11.102	
19,400.0	10,559.0	17,773.8	8,991.3	150.3	149.0	-2.19	-8,743.5	-135.4	1,571.4	1,428.7	142.69	11.013	
19,500.0	10,559.0	17,871.0	8,988.3	151.9	150.6	-2.28	-8,840.6	-132.2	1,574.6	1,430.4	144.24	10.916	
19,600.0	10,559.0	18,036.7	8,987.7	153.6	153.3	-2.30	-9,006.2	-130.4	1,574.7	1,428.6	146.14	10.775	
19,700.0	10,559.0	18,133.8	8,989.1	155.2	154.9	-2.36	-9,103.3	-128.0	1,573.4	1,425.7	147.71	10.652	
19,800.0	10,559.0	18,219.9	8,989.7	156.8	156.2	-2.36	-9,189.4	-127.5	1,572.6	1,423.4	149.20	10.540	
19,823.0	10,559.0	18,238.6	8,989.8	157.1	156.5	-2.36	-9,208.1	-127.4	1,572.6	1,423.0	149.54	10.516	
19,900.0	10,559.0	18,315.5	8,989.6	158.4	157.8	-2.35	-9,285.0	-127.0	1,572.7	1,422.0	150.73	10.434	
20,000.0	10,559.0	18,463.4	8,991.6	160.0	160.2	-2.46	-9,432.8	-123.0	1,571.6	1,419.1	152.50	10.306	
20,098.1	10,559.0	18,513.8	8,992.4	161.5	161.0	-2.48	-9,483.2	-122.2	1,570.1	1,416.2	153.86	10.205	
20,100.0	10,559.0	18,514.8	8,992.4	161.6	161.0	-2.48	-9,484.2	-122.2	1,570.1	1,416.2	153.88	10.203	
20,200.0	10,559.0	18,570.9	8,991.4	163.2	161.9	-2.43	-9,540.2	-123.3	1,571.7	1,416.5	155.16	10.129	
20,300.0	10,559.0	18,652.0	8,988.4	164.8	163.2	-2.32	-9,621.3	-125.6	1,575.2	1,418.7	156.53	10.063	
20,400.0	10,559.0	18,803.3	8,985.3	166.4	165.7	-2.10	-9,772.5	-130.3	1,576.8	1,418.5	158.34	9.958	
20,500.0	10,559.0	18,992.5	8,988.9	168.0	168.7	-1.85	-9,961.5	-136.3	1,574.8	1,414.7	160.09	9.837	
20,600.0	10,559.0	19,097.4	8,994.2	169.6	170.4	-1.75	-10,066.3	-138.2	1,569.6	1,408.0	161.62	9.712	
20,700.0	10,559.0	19,159.0	8,997.0	171.2	171.4	-1.73	-10,127.8	-138.6	1,565.3	1,402.2	163.11	9.597	
20,800.0	10,559.0	19,221.0	8,997.3	172.8	172.4	-1.72	-10,189.8	-138.5	1,564.4	1,399.9	164.52	9.509	
20,804.6	10,559.0	19,221.0	8,997.3	172.9	172.4	-1.72	-10,189.8	-138.5	1,564.4	1,399.9	164.57	9.506	
20,900.0	10,559.0	19,272.0	8,996.1	174.5	173.3	-1.71	-10,240.7	-138.4	1,566.2	1,400.4	165.79	9.447	
21,000.0	10,559.0	19,435.2	8,993.4	176.1	175.9	-1.57	-10,403.9	-140.8	1,568.3	1,400.7	167.65	9.355	
21,100.0	10,559.0	19,552.8	8,995.6	177.7	177.8	-1.48	-10,521.5	-142.7	1,566.3	1,397.1	169.23	9.255	
21,200.0	10,559.0	19,706.0	9,000.9	179.3	180.3	-1.44	-10,674.6	-142.8	1,563.1	1,392.3	170.84	9.149	
21,300.0	10,559.0	19,767.4	9,003.4	180.9	181.3	-1.44	-10,735.9	-142.5	1,559.0	1,386.6	172.37	9.044	
21,400.0	10,559.0	19,878.5	9,007.1	182.5	183.1	-1.45	-10,846.9	-141.3	1,555.7	1,381.7	173.94	8.944	
21,500.0	10,559.0	19,931.0	9,008.4	184.2	184.0	-1.47	-10,899.4	-140.6	1,553.2	1,377.8	175.38	8.856	
21,529.4	10,559.0	19,946.2	9,008.4	184.6	184.2	-1.47	-10,914.6	-140.5	1,553.1	1,377.3	175.78	8.835	
21,600.0	10,559.0	19,985.4	9,008.0	185.8	184.8	-1.46	-10,953.8	-140.4	1,553.8	1,377.1	176.70	8.794	
21,700.0	10,559.0	20,055.1	9,005.9	187.4	186.0	-1.42	-11,023.5	-141.0	1,556.8	1,378.8	178.02	8.745	
21,800.0	10,559.0	20,138.9	9,002.0	189.0	187.3	-1.36	-11,107.2	-142.0	1,561.4	1,382.0	179.41	8.703	
21,900.0	10,559.0	20,320.8	8,997.6	190.6	190.3	-1.34	-11,289.0	-141.1	1,563.8	1,382.3	181.52	8.615	
22,000.0	10,559.0	20,425.7	8,998.3	192.3	192.0	-1.37	-11,393.9	-139.6	1,563.2	1,380.1	183.11	8.537	
22,100.0	10,559.0	20,546.5	8,999.7	193.9	194.0	-1.51	-11,514.6	-134.9	1,562.1	1,377.4	184.78	8.454	
22,200.0	10,559.0	20,659.6	9,002.8	195.5	195.8	-1.73	-11,627.5	-128.4	1,559.5	1,373.1	186.43	8.365	
22,300.0	10,559.0	20,740.0	9,004.4	197.1	197.1	-1.80	-11,707.7	-125.9	1,557.5	1,369.5	187.96	8.286	
22,400.0	10,559.0	20,854.4	9,006.7	198.7	199.0	-1.80	-11,822.2	-125.0	1,555.5	1,365.9	189.57	8.206	
22,500.0	10,559.0	20,960.2	9,009.4	200.4	200.7	-1.81	-11,927.9	-124.3	1,552.9	1,361.8	191.14	8.125	
22,600.0	10,559.0	21,068.4	9,012.7	202.0	202.5	-1.86	-12,036.0	-122.3	1,550.0	1,357.2	192.73	8.042	
22,700.0	10,559.0	21,170.8	9,016.3	203.6	204.2	-1.97	-12,138.3	-118.5	1,546.5	1,352.1	194.34	7.958	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #111H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 234-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
22,800.0	10,559.0	21,257.7	9,019.2	205.2	205.6	-2.09	-12,225.1	-114.9	1,543.4	1,347.4	195.92	7.877	
22,900.0	10,559.0	21,352.8	9,021.4	206.9	207.2	-2.22	-12,320.0	-110.7	1,541.2	1,343.6	197.53	7.802	
23,000.0	10,559.0	21,446.0	9,023.8	208.5	208.7	-2.35	-12,413.1	-106.7	1,538.7	1,339.6	199.13	7.727	
23,028.1	10,559.0	21,446.0	9,023.8	208.9	208.7	-2.35	-12,413.1	-106.7	1,538.5	1,339.0	199.47	7.713	
23,028.2	10,559.0	21,446.0	9,023.8	208.9	208.7	-2.35	-12,413.1	-106.7	1,538.5	1,339.0	199.47	7.713	
23,028.8	10,559.0	21,446.0	9,023.8	209.0	208.7	-2.35	-12,413.1	-106.7	1,538.5	1,339.0	199.47	7.713	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #121H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 228-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.0	1.0	0.0	0.0	-90.30	-1.0	-190.1	190.1				
100.0	100.0	100.8	100.8	0.1	0.2	-90.27	-0.9	-190.1	190.1	189.8	0.29	663.981	
200.0	200.0	200.6	200.6	0.5	0.3	-90.17	-0.6	-190.3	190.3	189.5	0.80	237.427	
300.0	300.0	301.0	301.0	0.8	0.6	-90.05	-0.2	-190.4	190.4	188.9	1.46	130.512	
400.0	400.0	401.6	401.6	1.2	1.0	-89.99	0.0	-190.2	190.2	188.0	2.17	87.657	
500.0	500.0	501.8	501.8	1.6	1.3	-89.96	0.1	-189.8	189.8	187.0	2.88	65.880	
600.0	600.0	602.0	601.9	1.9	1.7	-89.93	0.2	-189.4	189.4	185.8	3.59	52.706	
700.0	700.0	701.7	701.7	2.3	2.0	-89.91	0.3	-188.9	188.9	184.6	4.30	43.905	
800.0	800.0	801.5	801.5	2.6	2.4	-89.95	0.2	-188.6	188.6	183.6	5.01	37.621	
861.0	861.0	862.0	862.0	2.9	2.6	-89.99	0.0	-188.5	188.5	183.1	5.44	34.662	
900.0	900.0	900.7	900.7	3.0	2.7	-90.02	-0.1	-188.6	188.6	182.9	5.71	33.012	
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.1	-90.11	-0.4	-188.9	188.9	182.5	6.41	29.465	
1,100.0	1,100.0	1,099.2	1,099.2	3.7	3.4	-90.23	-0.8	-189.6	189.6	182.5	7.11	26.678	
1,200.0	1,200.0	1,198.1	1,198.1	4.1	3.7	-90.39	-1.3	-190.9	190.9	183.1	7.81	24.446	
1,300.0	1,300.0	1,298.2	1,298.2	4.4	4.1	-90.60	-2.0	-192.5	192.5	184.0	8.51	22.611	
1,400.0	1,400.0	1,399.2	1,399.2	4.8	4.4	-90.85	-2.9	-193.7	193.7	184.5	9.23	20.999	
1,500.0	1,500.0	1,499.7	1,499.7	5.1	4.8	-91.08	-3.7	-194.5	194.5	184.6	9.94	19.575	
1,600.0	1,600.0	1,600.0	1,599.9	5.5	5.1	-74.37	-4.0	-195.1	194.9	184.2	10.65	18.305	
1,700.0	1,700.0	1,699.6	1,699.5	5.9	5.5	-75.11	-4.1	-195.7	194.8	183.5	11.35	17.159	
1,800.0	1,799.9	1,799.0	1,798.9	6.2	5.8	-76.31	-3.9	-196.6	194.6	182.6	12.06	16.137	
1,900.0	1,899.7	1,898.6	1,898.5	6.6	6.2	-77.96	-3.7	-197.7	194.3	181.6	12.77	15.219	
2,000.0	1,999.4	1,998.1	1,998.1	6.9	6.5	-80.06	-3.2	-198.9	194.0	180.5	13.48	14.392	
2,100.0	2,098.9	2,099.1	2,099.0	7.3	6.9	-82.66	-2.6	-199.8	193.4	179.2	14.20	13.623	
2,200.0	2,198.3	2,199.8	2,199.7	7.7	7.3	-85.79	-1.8	-200.1	192.4	177.5	14.92	12.898	
2,300.0	2,297.4	2,298.7	2,298.6	8.0	7.6	-89.53	-1.4	-200.1	191.7	176.1	15.63	12.266	
2,318.6	2,315.8	2,317.0	2,316.9	8.1	7.7	-90.30	-1.4	-200.1	191.7	176.0	15.77	12.161	
2,400.0	2,396.4	2,397.5	2,397.5	8.4	7.9	-93.73	-1.7	-200.0	192.1	175.7	16.35	11.748	
2,500.0	2,495.5	2,496.7	2,496.6	8.8	8.3	-97.91	-1.9	-199.8	193.5	176.4	17.07	11.331	
2,600.0	2,594.5	2,595.7	2,595.6	9.2	8.6	-101.92	-1.9	-199.7	195.8	178.0	17.80	10.998	
2,700.0	2,693.5	2,694.2	2,694.1	9.6	9.0	-105.75	-1.9	-199.8	199.2	180.7	18.53	10.752	
2,800.0	2,792.5	2,792.9	2,792.8	10.0	9.3	-109.39	-1.8	-200.2	203.8	184.5	19.25	10.582	
2,900.0	2,891.6	2,892.0	2,892.0	10.3	9.7	-112.88	-1.7	-200.7	209.1	189.2	19.99	10.464	
3,000.0	2,990.6	2,991.4	2,991.3	10.7	10.0	-116.21	-1.7	-201.0	215.2	194.5	20.72	10.389	
3,100.0	3,089.6	3,091.0	3,090.9	11.1	10.4	-119.32	-1.4	-201.4	221.8	200.3	21.45	10.341	
3,200.0	3,188.6	3,191.0	3,190.9	11.5	10.7	-122.24	-0.8	-201.6	228.7	206.5	22.18	10.311	
3,300.0	3,287.7	3,291.2	3,291.1	11.9	11.1	-125.15	-0.3	-200.9	235.6	212.7	22.90	10.290	
3,400.0	3,386.7	3,389.1	3,389.0	12.3	11.4	-127.94	0.0	-199.8	243.1	219.5	23.61	10.294	
3,500.0	3,485.7	3,486.1	3,486.0	12.7	11.7	-130.48	-0.2	-199.4	251.8	227.5	24.31	10.355	
3,600.0	3,584.8	3,583.6	3,583.5	13.1	12.1	-132.89	-1.0	-199.2	261.7	236.7	25.02	10.460	
3,653.6	3,637.9	3,635.9	3,635.8	13.3	12.3	-134.24	-1.9	-198.6	267.4	242.0	25.39	10.530	
3,700.0	3,683.8	3,681.0	3,680.8	13.5	12.4	-135.44	-2.9	-197.9	272.4	246.6	25.71	10.592	
3,800.0	3,783.2	3,780.5	3,780.3	13.9	12.8	-137.66	-5.3	-196.4	282.2	255.8	26.42	10.680	
3,900.0	3,882.8	3,881.2	3,881.0	14.3	13.1	-139.05	-6.6	-196.3	289.9	262.8	27.14	10.685	
4,000.0	3,982.6	3,980.2	3,980.0	14.7	13.5	-139.78	-7.4	-197.2	295.7	267.9	27.84	10.622	
4,100.0	4,082.5	4,079.1	4,078.9	15.0	13.8	-140.11	-8.3	-198.4	299.8	271.3	28.54	10.505	
4,187.0	4,169.5	4,166.8	4,166.5	15.3	14.1	-157.17	-9.2	-199.6	301.8	272.7	29.16	10.351	
4,200.0	4,182.5	4,179.9	4,179.7	15.4	14.2	-157.14	-9.3	-199.8	302.0	272.7	29.25	10.324	
4,300.0	4,282.5	4,280.7	4,280.5	15.7	14.5	-156.97	-10.0	-201.1	303.1	273.2	29.96	10.118	
4,400.0	4,382.5	4,380.7	4,380.5	16.1	14.9	-156.77	-10.5	-202.4	304.1	273.5	30.66	9.918	
4,500.0	4,482.5	4,481.1	4,480.9	16.4	15.2	-156.55	-10.9	-203.9	305.1	273.7	31.37	9.725	
4,600.0	4,582.5	4,582.7	4,582.4	16.7	15.6	-156.41	-11.2	-204.9	305.7	273.6	32.09	9.527	
4,700.0	4,682.5	4,683.7	4,683.5	17.1	16.0	-156.37	-11.2	-205.1	305.8	273.0	32.80	9.324	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #121H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 228-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.0	4,782.5	4,783.6	4,783.3	17.4	16.3	-156.32	-11.1	-205.4	305.9	272.3	33.50	9.129	
4,900.0	4,882.5	4,883.6	4,883.3	17.8	16.7	-156.20	-11.0	-205.9	305.9	271.7	34.21	8.943	
5,000.0	4,982.5	4,983.8	4,983.5	18.1	17.0	-156.12	-10.8	-206.4	305.9	271.0	34.91	8.763	
5,063.0	5,045.5	5,046.8	5,046.6	18.4	17.2	-156.10	-10.7	-206.5	305.9	270.6	35.36	8.652	
5,100.0	5,082.5	5,083.7	5,083.4	18.5	17.4	-156.09	-10.7	-206.5	305.9	270.3	35.62	8.589	
5,200.0	5,182.5	5,183.4	5,183.1	18.8	17.7	-156.08	-10.8	-206.6	306.0	269.7	36.32	8.426	
5,300.0	5,282.5	5,283.3	5,283.0	19.2	18.1	-156.09	-11.0	-206.6	306.2	269.2	37.02	8.270	
5,400.0	5,382.5	5,383.4	5,383.1	19.5	18.4	-156.15	-11.2	-206.3	306.3	268.6	37.72	8.120	
5,500.0	5,482.5	5,484.2	5,484.0	19.9	18.8	-156.25	-11.4	-205.9	306.3	267.9	38.42	7.972	
5,600.0	5,582.5	5,585.3	5,585.0	20.2	19.1	-156.37	-11.4	-205.1	306.0	266.9	39.12	7.821	
5,700.0	5,682.5	5,690.1	5,689.8	20.6	19.5	-156.51	-10.5	-204.0	304.8	264.9	39.84	7.650	
5,800.0	5,782.5	5,795.8	5,795.5	20.9	19.8	-156.63	-7.9	-202.1	301.8	261.3	40.54	7.445	
5,900.0	5,882.5	5,906.7	5,906.1	21.3	20.2	-156.93	-2.6	-198.2	296.0	254.8	41.22	7.182	
6,000.0	5,982.5	6,016.1	6,015.1	21.6	20.6	-157.55	5.7	-191.3	286.6	244.8	41.84	6.850	
6,100.0	6,082.5	6,123.4	6,121.4	22.0	21.0	-158.74	15.9	-181.0	274.2	231.8	42.44	6.461	
6,200.0	6,182.5	6,225.1	6,221.6	22.3	21.3	-160.49	26.9	-168.3	259.6	216.5	43.09	6.025	
6,300.0	6,282.5	6,323.5	6,318.6	22.7	21.7	-162.49	37.6	-155.5	245.1	201.3	43.79	5.597	
6,400.0	6,382.5	6,420.1	6,413.8	23.0	22.0	-164.68	47.9	-143.1	231.2	186.7	44.52	5.194	
6,500.0	6,482.5	6,516.1	6,508.8	23.4	22.3	-166.88	57.2	-131.9	218.9	173.6	45.27	4.836	
6,600.0	6,582.5	6,615.2	6,606.8	23.7	22.7	-169.17	66.2	-121.3	207.7	161.7	45.98	4.518	
6,700.0	6,682.5	6,715.2	6,705.8	24.1	23.1	-171.72	75.9	-110.6	196.4	149.7	46.67	4.208	
6,800.0	6,782.5	6,813.1	6,802.7	24.4	23.4	-174.42	85.4	-100.4	185.4	138.0	47.40	3.912	
6,900.0	6,882.5	6,910.8	6,899.5	24.8	23.8	-177.21	94.2	-91.0	175.7	127.5	48.14	3.649	
7,000.0	6,982.5	7,010.7	6,998.7	25.1	24.1	179.69	103.0	-81.6	166.6	117.8	48.85	3.411	
7,100.0	7,082.5	7,110.8	7,097.8	25.5	24.5	176.00	112.4	-71.6	157.5	108.0	49.56	3.178	
7,200.0	7,182.5	7,211.8	7,197.7	25.8	24.9	171.72	122.9	-61.2	148.2	98.0	50.27	2.949	
7,300.0	7,282.5	7,312.5	7,297.3	26.2	25.2	166.91	134.7	-51.3	138.5	87.5	50.98	2.716	
7,400.0	7,382.5	7,410.2	7,393.8	26.5	25.6	161.78	146.2	-42.1	129.6	77.9	51.77	2.504	
7,500.0	7,482.5	7,508.5	7,491.1	26.9	26.0	156.31	156.9	-33.4	122.5	70.0	52.54	2.333	
7,600.0	7,582.5	7,607.1	7,588.9	27.3	26.3	150.60	167.0	-25.0	117.2	63.9	53.30	2.198	
7,700.0	7,682.5	7,705.9	7,686.9	27.6	26.7	144.79	176.4	-17.2	113.4	59.3	54.06	2.098	
7,800.0	7,782.5	7,804.9	7,785.3	28.0	27.1	139.14	184.9	-9.8	111.1	56.3	54.80	2.027	
7,900.0	7,882.5	7,904.3	7,884.1	28.3	27.5	133.87	192.7	-3.1	110.1	54.6	55.54	1.982	
7,981.2	7,963.7	7,985.2	7,964.7	28.6	27.7	130.02	198.3	1.7	109.9	53.8	56.13	1.958	CC
8,000.0	7,982.5	8,004.0	7,983.4	28.7	27.8	129.19	199.5	2.7	109.9	53.6	56.27	1.953	
8,100.0	8,082.5	8,103.9	8,083.0	29.0	28.2	125.21	205.4	7.5	110.2	53.2	57.00	1.933	
8,200.0	8,182.5	8,203.8	8,182.7	29.4	28.5	121.86	210.5	11.6	110.8	53.1	57.72	1.919	ES
8,300.0	8,282.5	8,303.1	8,281.8	29.7	28.9	119.00	214.8	15.2	111.7	53.3	58.43	1.912	
8,400.0	8,382.5	8,401.4	8,380.0	30.1	29.3	116.00	219.0	19.9	114.0	54.9	59.11	1.929	
8,500.0	8,482.5	8,501.3	8,479.6	30.4	29.6	112.86	223.3	25.7	117.5	57.7	59.83	1.964	
8,600.0	8,582.5	8,602.6	8,580.6	30.8	30.0	109.93	227.9	30.6	120.4	59.8	60.56	1.987	
8,700.0	8,682.5	8,704.5	8,682.4	31.1	30.4	107.25	232.7	34.1	122.1	60.8	61.30	1.992	
8,800.0	8,782.5	8,806.7	8,784.5	31.5	30.7	104.88	237.6	35.6	122.2	60.2	62.02	1.970	
8,900.0	8,882.5	8,907.0	8,884.7	31.9	31.1	102.84	242.0	35.6	121.2	58.4	62.72	1.932	
9,000.0	8,982.5	9,007.0	8,984.6	32.2	31.4	101.13	245.8	35.5	120.2	56.8	63.43	1.895	
9,100.0	9,082.5	9,106.9	9,084.5	32.6	31.8	99.71	248.8	35.1	119.4	55.2	64.13	1.861	
9,177.5	9,160.0	9,183.5	9,161.0	32.8	32.0	99.20	249.9	35.0	119.0	54.4	64.67	1.840	
9,200.0	9,182.5	9,205.7	9,183.2	32.9	32.1	99.23	249.9	35.0	119.1	54.2	64.83	1.836	
9,300.0	9,282.5	9,303.3	9,280.6	33.3	32.4	101.73	244.5	35.1	120.2	54.7	65.50	1.835	SF
9,400.0	9,382.5	9,399.6	9,375.1	33.6	32.7	110.00	226.5	34.1	124.4	58.3	66.04	1.883	
9,500.0	9,482.5	9,482.5	9,453.2	34.0	33.0	121.31	199.0	32.5	138.0	72.7	65.24	2.115	
9,600.0	9,582.5	9,554.3	9,516.9	34.3	33.1	131.62	165.9	33.5	168.8	106.6	62.26	2.712	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #121H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 228-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
9,700.0	9,682.5	9,618.8	9,570.3	34.7	33.3	139.30	130.0	37.1	215.5	156.9	58.61	3.677	
9,800.0	9,782.5	9,682.5	9,620.0	35.1	33.4	145.24	90.4	41.4	272.0	216.0	55.96	4.861	
9,900.0	9,882.5	9,731.9	9,656.2	35.4	33.5	148.95	57.1	45.0	335.8	283.1	52.69	6.373	
10,000.0	9,982.5	9,771.8	9,683.2	35.8	33.6	151.47	27.9	48.5	406.7	357.2	49.54	8.209	
10,003.5	9,986.0	9,773.1	9,684.1	35.8	33.6	151.54	26.9	48.7	409.3	359.9	49.44	8.279	
10,050.0	10,032.4	9,792.0	9,696.0	35.9	33.6	-35.84	12.4	50.5	443.3	395.0	48.26	9.185	
10,100.0	10,082.0	9,811.9	9,708.1	36.1	33.6	-32.48	-3.2	52.6	478.6	431.7	46.94	10.196	
10,150.0	10,130.9	9,834.4	9,721.3	36.2	33.7	-29.76	-21.3	54.9	512.3	466.5	45.84	11.177	
10,200.0	10,178.7	9,857.4	9,734.2	36.4	33.7	-27.61	-40.2	57.4	544.3	499.5	44.76	12.161	
10,250.0	10,225.0	9,886.0	9,749.5	36.5	33.8	-25.93	-64.2	60.5	574.4	530.3	44.10	13.026	
10,300.0	10,269.4	9,908.0	9,760.7	36.6	33.9	-24.58	-83.0	62.7	602.4	559.5	42.94	14.028	
10,350.0	10,311.8	9,937.1	9,774.9	36.7	33.9	-23.51	-108.3	65.1	628.0	585.7	42.28	14.854	
10,400.0	10,351.6	9,966.8	9,788.6	36.8	34.0	-22.65	-134.6	66.9	651.2	609.5	41.63	15.641	
10,450.0	10,388.7	9,997.0	9,801.8	36.9	34.1	-21.97	-161.8	68.0	671.7	630.7	41.01	16.378	
10,500.0	10,422.7	10,027.8	9,814.4	37.0	34.2	-21.48	-189.7	68.8	689.6	649.1	40.45	17.048	
10,550.0	10,453.3	10,058.9	9,826.4	37.1	34.3	-21.14	-218.4	69.3	704.8	664.8	39.94	17.644	
10,600.0	10,480.4	10,077.0	9,833.0	37.2	34.4	-20.83	-235.3	69.4	717.4	678.5	38.87	18.455	
10,650.0	10,503.8	10,110.2	9,844.1	37.3	34.5	-20.77	-266.6	69.2	727.4	688.8	38.62	18.834	
10,700.0	10,523.2	10,139.0	9,852.1	37.4	34.6	-20.77	-294.3	68.6	735.3	697.1	38.24	19.227	
10,750.0	10,538.5	10,139.0	9,852.1	37.5	34.6	-20.55	-294.3	68.6	741.4	704.3	37.02	20.023	
10,800.0	10,549.6	10,176.8	9,860.5	37.6	34.8	-20.85	-331.1	67.5	744.5	707.2	37.26	19.980	
10,850.0	10,556.5	10,214.0	9,866.2	37.7	34.9	-21.27	-367.8	66.3	746.2	708.7	37.55	19.872	
10,900.0	10,558.9	10,214.0	9,866.2	37.9	34.9	-21.31	-367.8	66.3	745.1	707.9	37.23	20.012	
10,903.5	10,559.0	10,214.0	9,866.2	37.9	34.9	-21.31	-367.8	66.3	745.0	707.8	37.23	20.011	
10,966.2	10,559.0	10,248.8	9,869.1	38.1	35.1	-21.73	-402.5	64.8	743.7	705.9	37.77	19.689	
11,000.0	10,559.0	10,263.9	9,869.6	38.2	35.1	-21.88	-417.6	64.0	744.1	706.0	38.05	19.555	
11,100.0	10,559.0	10,309.5	9,868.6	38.5	35.3	-22.20	-463.0	61.0	749.2	710.2	39.05	19.187	
11,200.0	10,559.0	10,405.6	9,863.4	38.9	35.8	-22.67	-558.9	57.1	756.9	716.9	39.94	18.950	
11,300.0	10,559.0	10,512.0	9,859.5	39.4	36.3	-23.22	-665.2	56.8	763.1	722.2	40.95	18.637	
11,400.0	10,559.0	10,628.4	9,859.4	40.0	37.0	-23.86	-781.5	60.6	766.1	723.9	42.18	18.165	
11,488.5	10,559.0	10,718.1	9,860.8	40.5	37.7	-24.23	-871.2	64.5	766.8	723.5	43.22	17.739	
11,500.0	10,559.0	10,729.3	9,860.9	40.5	37.7	-24.27	-882.4	65.0	766.8	723.4	43.36	17.686	
11,600.0	10,559.0	10,831.9	9,862.8	41.2	38.5	-24.63	-984.7	70.2	767.0	722.4	44.60	17.197	
11,700.0	10,559.0	10,951.2	9,866.6	41.9	39.4	-25.09	-1,103.8	76.0	765.9	719.8	46.08	16.620	
11,800.0	10,559.0	11,034.9	9,868.1	42.6	40.2	-25.06	-1,187.5	75.4	763.8	716.7	47.05	16.232	
11,815.6	10,559.0	11,046.5	9,868.0	42.8	40.3	-25.03	-1,199.1	75.1	763.7	716.5	47.19	16.184	
11,900.0	10,559.0	11,129.1	9,866.0	43.4	41.0	-24.76	-1,281.7	72.6	764.2	716.3	47.92	15.947	
12,000.0	10,559.0	11,239.6	9,864.7	44.3	42.0	-24.44	-1,392.1	69.4	763.7	714.9	48.89	15.621	
12,100.0	10,559.0	11,352.2	9,865.3	45.2	43.1	-24.20	-1,504.6	66.3	761.8	711.8	50.00	15.238	
12,160.9	10,559.0	11,392.1	9,865.5	45.7	43.5	-24.13	-1,544.5	65.5	761.0	710.3	50.61	15.036	
12,200.0	10,559.0	11,416.8	9,865.0	46.1	43.8	-24.07	-1,569.3	65.1	761.3	710.3	51.01	14.925	
12,300.0	10,559.0	11,506.5	9,860.9	47.1	44.7	-23.85	-1,658.8	64.3	764.8	712.7	52.11	14.677	
12,400.0	10,559.0	11,631.7	9,858.4	48.1	46.0	-23.75	-1,783.9	64.8	766.5	713.1	53.46	14.339	
12,500.0	10,559.0	11,750.6	9,860.1	49.1	47.4	-23.80	-1,902.9	65.6	765.2	710.2	54.99	13.914	
12,600.0	10,559.0	11,855.5	9,864.2	50.2	48.6	-23.97	-2,007.7	67.0	761.8	705.1	56.61	13.457	
12,700.0	10,559.0	11,935.4	9,865.8	51.3	49.5	-24.03	-2,087.5	67.7	760.0	702.0	58.02	13.100	
12,800.0	10,559.0	12,037.5	9,867.0	52.4	50.8	-24.12	-2,189.7	69.3	759.3	699.7	59.61	12.738	
12,900.0	10,559.0	12,132.9	9,868.6	53.6	52.0	-24.35	-2,284.9	72.5	758.9	697.5	61.33	12.374	
12,989.3	10,559.0	12,223.5	9,870.6	54.7	53.1	-24.67	-2,375.4	76.9	758.6	695.6	63.03	12.035	
13,000.0	10,559.0	12,228.9	9,870.6	54.8	53.2	-24.69	-2,380.9	77.1	758.7	695.5	63.19	12.006	
13,100.0	10,559.0	12,309.0	9,869.7	56.0	54.2	-24.78	-2,460.9	79.4	760.6	695.9	64.77	11.744	
13,200.0	10,559.0	12,407.3	9,866.3	57.2	55.5	-24.72	-2,559.1	80.8	764.1	697.8	66.30	11.525	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #121H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 228-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	10,559.0	12,517.7	9,863.7	58.5	56.9	-24.74	-2,669.4	83.0	766.7	698.7	67.98	11.278	
13,400.0	10,559.0	12,628.4	9,863.9	59.8	58.4	-24.90	-2,780.1	86.1	767.3	697.5	69.85	10.986	
13,500.0	10,559.0	12,721.1	9,863.9	61.0	59.6	-25.04	-2,872.8	88.9	768.3	696.7	71.63	10.727	
13,600.0	10,559.0	12,819.5	9,863.6	62.4	61.0	-25.24	-2,971.1	92.6	769.9	696.4	73.52	10.472	
13,700.0	10,559.0	12,921.2	9,862.6	63.7	62.4	-25.29	-3,072.8	94.6	771.4	696.1	75.28	10.247	
13,800.0	10,559.0	13,013.3	9,861.8	65.0	63.7	-25.37	-3,164.9	96.8	772.9	695.9	77.05	10.031	
13,900.0	10,559.0	13,098.0	9,859.0	66.4	64.9	-25.37	-3,249.5	98.7	776.5	697.8	78.69	9.868	
14,000.0	10,559.0	13,196.8	9,855.5	67.7	66.3	-25.45	-3,348.1	102.3	781.0	700.4	80.53	9.698	
14,100.0	10,559.0	13,296.2	9,852.6	69.1	67.7	-25.66	-3,447.3	107.5	785.5	703.0	82.53	9.518	
14,200.0	10,559.0	13,420.7	9,850.4	70.5	69.5	-25.98	-3,571.6	114.4	789.5	704.6	84.85	9.304	
14,300.0	10,559.0	13,543.8	9,851.9	71.9	71.3	-26.17	-3,694.7	117.4	789.1	702.1	87.01	9.069	
14,400.0	10,559.0	13,652.4	9,853.8	73.3	72.8	-26.16	-3,803.2	117.1	787.0	698.1	88.85	8.858	
14,500.0	10,559.0	13,754.5	9,854.7	74.8	74.3	-25.92	-3,905.3	113.6	784.5	694.1	90.34	8.683	
14,600.0	10,559.0	13,859.8	9,856.4	76.2	75.8	-25.68	-4,010.5	109.9	781.2	689.3	91.86	8.504	
14,700.0	10,559.0	13,965.1	9,857.1	77.6	77.4	-25.21	-4,115.6	103.3	777.5	684.5	93.06	8.355	
14,800.0	10,559.0	14,048.6	9,858.1	79.1	78.6	-24.88	-4,199.0	98.5	773.9	679.5	94.35	8.202	
14,900.0	10,559.0	14,140.3	9,855.9	80.5	79.9	-24.41	-4,290.5	93.1	773.3	677.8	95.46	8.100	
14,978.6	10,559.0	14,212.2	9,855.1	81.7	81.0	-24.11	-4,362.2	89.5	772.2	675.8	96.43	8.008	
15,000.0	10,559.0	14,224.7	9,854.7	82.0	81.2	-24.05	-4,374.8	88.9	772.3	675.6	96.68	7.989	
15,100.0	10,559.0	14,283.2	9,850.6	83.5	82.0	-23.67	-4,433.0	85.5	776.1	678.5	97.64	7.949	
15,200.0	10,559.0	14,381.5	9,840.8	84.9	83.5	-22.95	-4,530.6	79.8	782.8	684.4	98.39	7.956	
15,300.0	10,559.0	14,494.8	9,831.3	86.4	85.2	-22.33	-4,643.5	75.4	788.8	689.4	99.41	7.935	
15,400.0	10,559.0	14,609.8	9,825.9	87.9	86.9	-22.13	-4,758.3	75.4	792.8	691.8	101.01	7.849	
15,500.0	10,559.0	14,715.5	9,823.6	89.4	88.5	-22.18	-4,864.0	77.7	795.5	692.6	102.89	7.731	
15,600.0	10,559.0	14,837.9	9,823.5	90.9	90.4	-22.50	-4,986.2	83.4	797.1	691.8	105.29	7.570	
15,700.0	10,559.0	14,952.9	9,828.3	92.4	92.2	-23.11	-5,100.9	91.4	795.7	687.6	108.11	7.360	
15,800.0	10,559.0	15,066.7	9,835.4	93.9	94.0	-23.78	-5,214.1	99.3	792.5	681.4	111.05	7.136	
15,900.0	10,559.0	15,167.8	9,842.5	95.5	95.5	-24.42	-5,314.7	106.6	788.7	674.7	113.95	6.921	
16,000.0	10,559.0	15,270.4	9,849.2	97.0	97.1	-24.89	-5,417.0	111.2	784.3	667.7	116.60	6.726	
16,100.0	10,559.0	15,378.5	9,854.7	98.5	98.8	-25.11	-5,524.9	112.8	780.1	661.2	118.87	6.562	
16,200.0	10,559.0	15,473.2	9,861.9	100.0	100.3	-25.50	-5,619.3	115.8	774.3	652.9	121.43	6.376	
16,300.0	10,559.0	15,553.2	9,864.6	101.6	101.5	-25.57	-5,699.2	116.1	771.0	647.6	123.41	6.248	
16,400.0	10,559.0	15,643.4	9,865.6	103.1	102.9	-25.59	-5,789.4	116.6	769.9	644.6	125.32	6.143	
16,488.5	10,559.0	15,725.8	9,866.7	104.5	104.2	-25.67	-5,871.8	117.7	769.2	642.0	127.11	6.051	
16,500.0	10,559.0	15,733.7	9,866.7	104.6	104.4	-25.67	-5,879.7	117.8	769.2	641.9	127.31	6.042	
16,600.0	10,559.0	15,802.3	9,864.4	106.2	105.4	-25.55	-5,948.3	117.6	771.7	642.9	128.74	5.994	
16,700.0	10,559.0	15,891.5	9,858.7	107.7	106.8	-25.28	-6,037.3	117.0	776.9	646.9	130.04	5.975	
16,800.0	10,559.0	15,983.6	9,852.2	109.3	108.3	-25.09	-6,129.1	117.8	783.4	651.9	131.48	5.958	
16,900.0	10,559.0	16,125.7	9,846.6	110.8	110.5	-24.96	-6,271.1	119.4	787.0	653.4	133.57	5.892	
17,000.0	10,559.0	16,227.1	9,845.5	112.4	112.1	-24.98	-6,372.4	121.0	788.3	652.8	135.53	5.816	
17,100.0	10,559.0	16,323.7	9,844.5	113.9	113.6	-25.05	-6,469.1	123.2	789.9	652.4	137.56	5.742	
17,200.0	10,559.0	16,424.8	9,843.6	115.5	115.2	-25.20	-6,570.1	126.5	791.8	652.0	139.77	5.665	
17,300.0	10,559.0	17,300.0	9,849.0	117.1	129.1	-25.63	-6,712.8	131.5	789.1	639.3	149.84	5.266	
17,400.0	10,559.0	16,682.0	9,857.0	118.6	119.3	-25.86	-6,826.7	132.0	782.4	637.2	145.15	5.390	
17,500.0	10,559.0	16,770.6	9,860.5	120.2	120.7	-25.82	-6,915.3	130.3	777.7	630.7	147.02	5.290	
17,600.0	10,559.0	16,865.0	9,863.4	121.8	122.2	-25.77	-7,009.6	128.9	774.0	625.1	148.85	5.200	
17,700.0	10,559.0	16,956.1	9,865.6	123.3	123.6	-25.76	-7,100.6	128.2	771.2	620.4	150.75	5.115	
17,800.0	10,559.0	17,057.2	9,867.5	124.9	125.2	-25.72	-7,201.7	127.5	768.9	616.3	152.63	5.038	
17,900.0	10,559.0	17,170.4	9,870.8	126.5	127.0	-25.74	-7,314.8	126.8	765.7	611.1	154.61	4.953	
17,974.0	10,559.0	17,212.8	9,871.3	127.7	127.7	-25.73	-7,357.3	126.9	764.5	608.5	155.96	4.902	
18,000.0	10,559.0	17,229.8	9,871.2	128.1	127.9	-25.72	-7,374.2	126.9	764.6	608.3	156.39	4.889	
18,100.0	10,559.0	17,303.4	9,868.5	129.7	129.1	-25.62	-7,447.8	127.2	767.7	609.9	157.84	4.864	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #121H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 228-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,200.0	10,559.0	17,455.9	9,862.0	131.2	131.5	-25.22	-7,600.1	125.4	771.7	612.4	159.26	4.845	
18,300.0	10,559.0	17,554.9	9,861.9	132.8	133.1	-24.97	-7,699.1	122.4	770.2	609.6	160.63	4.795	
18,400.0	10,559.0	17,666.6	9,863.9	134.4	134.9	-24.79	-7,810.7	119.6	767.2	605.1	162.17	4.731	
18,500.0	10,559.0	17,774.8	9,867.8	136.0	136.6	-24.80	-7,918.8	118.7	763.3	599.2	164.10	4.652	
18,600.0	10,559.0	17,872.4	9,872.8	137.6	138.2	-24.91	-8,016.3	118.7	758.3	592.0	166.30	4.560	
18,700.0	10,559.0	17,974.8	9,877.0	139.2	139.8	-25.00	-8,118.6	118.7	754.4	586.0	168.43	4.479	
18,800.0	10,559.0	18,074.2	9,881.6	140.8	141.4	-25.01	-8,217.8	117.4	749.3	578.9	170.40	4.398	
18,900.0	10,559.0	18,171.8	9,885.1	142.4	142.9	-24.95	-8,315.4	115.7	745.1	572.9	172.21	4.327	
19,000.0	10,559.0	18,250.4	9,887.7	144.0	144.2	-24.98	-8,393.9	115.4	741.8	567.6	174.21	4.258	
19,033.8	10,559.0	18,273.6	9,887.8	144.5	144.6	-24.97	-8,417.2	115.4	741.5	566.7	174.80	4.242	
19,100.0	10,559.0	18,325.2	9,887.0	145.6	145.4	-24.93	-8,468.7	115.6	742.3	566.4	175.88	4.221	
19,200.0	10,559.0	18,412.4	9,884.3	147.2	146.8	-24.85	-8,555.9	116.2	745.1	567.7	177.47	4.199	
19,300.0	10,559.0	18,507.1	9,880.0	148.7	148.3	-24.77	-8,650.5	117.7	749.6	570.5	179.12	4.185	
19,400.0	10,559.0	18,624.6	9,877.8	150.3	150.2	-24.86	-8,767.9	120.9	752.0	570.5	181.52	4.143	
19,500.0	10,559.0	18,720.1	9,876.5	151.9	151.8	-25.01	-8,863.4	124.4	754.5	570.7	183.81	4.105	
19,600.0	10,559.0	18,842.2	9,875.3	153.6	153.7	-25.15	-8,985.4	127.8	756.5	570.1	186.31	4.060	
19,700.0	10,559.0	18,960.0	9,878.1	155.2	155.6	-25.33	-9,103.1	129.9	754.7	565.9	188.80	3.998	
19,800.0	10,559.0	19,075.2	9,884.2	156.8	157.5	-25.64	-9,218.1	132.2	750.4	558.9	191.55	3.918	
19,900.0	10,559.0	19,152.4	9,887.6	158.4	158.7	-25.86	-9,295.2	134.4	747.3	553.2	194.16	3.849	
20,000.0	10,559.0	19,251.7	9,890.6	160.0	160.3	-26.16	-9,394.4	137.9	745.8	548.8	196.96	3.786	
20,100.0	10,559.0	19,359.8	9,894.5	161.6	162.1	-26.50	-9,502.4	141.7	743.9	544.0	199.92	3.721	
20,200.0	10,559.0	19,468.4	9,900.2	163.2	163.9	-26.89	-9,610.7	145.3	740.3	537.2	203.05	3.646	
20,300.0	10,559.0	19,560.8	9,904.1	164.8	165.4	-27.11	-9,703.0	147.1	737.2	531.5	205.71	3.584	
20,400.0	10,559.0	19,654.9	9,907.9	166.4	166.9	-27.43	-9,797.1	150.4	734.8	526.2	208.66	3.522	
20,500.0	10,559.0	19,743.6	9,910.0	168.0	168.3	-27.60	-9,885.7	152.4	733.5	522.4	211.15	3.474	
20,513.2	10,559.0	19,754.2	9,910.0	168.2	168.5	-27.61	-9,896.3	152.5	733.5	522.1	211.41	3.470	
20,600.0	10,559.0	19,835.7	9,908.7	169.6	169.8	-27.51	-9,977.7	152.3	734.3	521.5	212.83	3.450	
20,700.0	10,559.0	19,953.3	9,907.3	171.2	171.7	-27.09	-10,095.2	147.8	733.2	519.5	213.68	3.431	
20,800.0	10,559.0	20,047.7	9,905.9	172.8	173.2	-26.65	-10,189.5	142.9	731.8	517.5	214.34	3.414	
20,900.0	10,559.0	20,148.4	9,903.8	174.5	174.8	-26.18	-10,290.1	138.0	731.2	516.3	214.92	3.402	
20,976.9	10,559.0	20,218.8	9,902.7	175.7	175.9	-25.88	-10,360.4	134.8	730.5	515.0	215.50	3.390	
21,000.0	10,559.0	20,236.6	9,902.2	176.1	176.2	-25.80	-10,378.2	133.9	730.6	515.0	215.67	3.388	
21,100.0	10,559.0	20,321.9	9,898.1	177.7	177.6	-25.34	-10,463.2	130.1	732.7	516.5	216.11	3.390	
21,200.0	10,559.0	20,418.1	9,892.6	179.3	179.1	-24.82	-10,559.2	125.9	735.7	519.3	216.41	3.399	
21,300.0	10,559.0	20,524.4	9,886.9	180.9	180.8	-24.32	-10,665.4	122.2	738.9	522.0	216.91	3.407	
21,400.0	10,559.0	20,636.4	9,884.2	182.5	182.7	-24.11	-10,777.3	121.3	740.4	522.1	218.33	3.391	
21,500.0	10,559.0	20,747.3	9,884.0	184.2	184.5	-24.09	-10,888.2	121.9	740.5	520.2	220.27	3.362	
21,519.5	10,559.0	20,769.1	9,884.3	184.5	184.8	-24.11	-10,910.0	122.1	740.4	519.7	220.71	3.354	
21,600.0	10,559.0	20,808.7	9,883.0	185.8	185.4	-24.08	-10,949.6	122.5	742.3	520.5	221.73	3.348	
21,700.0	10,559.0	20,876.8	9,877.5	187.4	186.6	-23.90	-11,017.4	122.9	749.4	527.0	222.38	3.370	
21,800.0	10,559.0	20,989.8	9,867.3	189.0	188.4	-23.70	-11,129.9	125.3	758.4	534.4	224.03	3.385	
21,900.0	10,559.0	21,132.1	9,862.6	190.6	190.7	-23.75	-11,272.1	129.0	762.0	535.2	226.80	3.360	
22,000.0	10,559.0	21,254.6	9,864.7	192.3	192.7	-24.10	-11,394.5	134.0	761.7	531.7	229.99	3.312	
22,100.0	10,559.0	21,356.2	9,867.3	193.9	194.4	-24.29	-11,496.0	136.4	760.1	527.5	232.57	3.268	
22,200.0	10,559.0	21,455.8	9,869.9	195.5	196.0	-24.49	-11,595.5	138.9	758.5	523.3	235.19	3.225	
22,300.0	10,559.0	21,547.2	9,872.6	197.1	197.5	-24.77	-11,686.8	142.3	757.1	519.0	238.06	3.180	
22,316.2	10,559.0	21,559.9	9,872.8	197.4	197.7	-24.81	-11,699.5	142.9	757.0	518.6	238.49	3.174	
22,400.0	10,559.0	21,628.1	9,873.2	198.7	198.8	-25.00	-11,767.6	146.0	758.0	517.4	240.65	3.150	
22,500.0	10,559.0	21,720.5	9,872.1	200.4	200.3	-25.21	-11,859.9	150.1	760.6	517.4	243.24	3.127	
22,600.0	10,559.0	21,819.2	9,870.7	202.0	201.9	-25.48	-11,958.4	155.5	763.9	517.8	246.14	3.104	
22,700.0	10,559.0	21,931.0	9,871.0	203.6	203.8	-25.94	-12,070.0	162.9	766.3	516.5	249.89	3.067	
22,800.0	10,559.0	22,035.2	9,872.7	205.2	205.5	-26.44	-12,174.0	170.3	767.6	513.9	253.73	3.025	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #121H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 228-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
22,900.0	10,559.0	22,136.3	9,874.9	206.9	207.1	-26.99	-12,274.7	178.1	768.9	511.1	257.75	2.983	
23,000.0	10,559.0	22,238.4	9,877.8	208.5	208.8	-27.59	-12,376.5	186.4	769.8	507.8	261.98	2.938	
23,028.2	10,559.0	22,266.5	9,878.6	208.9	209.3	-27.75	-12,404.4	188.7	770.0	506.8	263.18	2.926	
23,028.8	10,559.0	22,267.1	9,878.6	209.0	209.3	-27.76	-12,405.0	188.7	770.0	506.8	263.19	2.926	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #201H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 235-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	2.0	2.0	0.0	0.0	-98.07	-31.2	-219.9	222.1				
100.0	100.0	101.4	101.4	0.1	0.2	-98.05	-31.1	-220.0	222.2	221.9	0.29	770.376	
200.0	200.0	200.9	200.9	0.5	0.3	-97.99	-31.0	-220.4	222.6	221.8	0.80	277.066	
300.0	300.0	300.3	300.3	0.8	0.6	-97.91	-30.7	-221.1	223.2	221.8	1.45	153.962	
400.0	400.0	399.8	399.8	1.2	1.0	-97.83	-30.5	-222.0	224.1	221.9	2.16	103.516	
500.0	500.0	499.6	499.5	1.6	1.3	-97.77	-30.4	-223.0	225.1	222.2	2.88	78.159	
600.0	600.0	599.3	599.3	1.9	1.7	-97.70	-30.3	-224.2	226.3	222.7	3.60	62.919	
700.0	700.0	699.1	699.1	2.3	2.0	-97.66	-30.3	-225.5	227.5	223.2	4.31	52.770	
800.0	800.0	798.9	798.9	2.6	2.4	-97.68	-30.6	-226.8	228.9	223.8	5.03	45.528	
900.0	900.0	899.1	899.1	3.0	2.8	-97.73	-30.9	-228.1	230.2	224.4	5.74	40.079	
1,000.0	1,000.0	999.1	999.0	3.4	3.1	-97.78	-31.3	-229.3	231.4	225.0	6.46	35.831	
1,100.0	1,100.0	1,098.0	1,098.0	3.7	3.5	-97.79	-31.6	-230.8	232.9	225.8	7.17	32.481	
1,200.0	1,200.0	1,196.0	1,195.9	4.1	3.8	-97.78	-31.8	-232.8	235.1	227.2	7.88	29.830	
1,300.0	1,300.0	1,297.8	1,297.7	4.4	4.2	-97.68	-31.8	-235.5	237.7	229.1	8.60	27.636	
1,400.0	1,400.0	1,402.7	1,402.5	4.8	4.5	-97.00	-29.0	-236.7	238.4	229.1	9.32	25.571	
1,500.0	1,500.0	1,504.1	1,503.8	5.1	4.9	-95.77	-23.9	-236.6	237.8	227.8	10.03	23.698	
1,600.0	1,600.0	1,604.3	1,603.8	5.5	5.2	-77.34	-17.3	-236.4	236.9	226.1	10.74	22.055	
1,700.0	1,700.0	1,704.9	1,704.0	5.9	5.6	-76.07	-9.4	-236.1	235.4	224.0	11.45	20.561	
1,800.0	1,799.9	1,805.5	1,804.2	6.2	5.9	-74.99	-0.6	-235.5	233.4	221.2	12.16	19.189	
1,900.0	1,899.7	1,904.8	1,903.2	6.6	6.3	-74.26	8.3	-234.9	230.9	218.0	12.88	17.932	
2,000.0	1,999.4	2,004.4	2,002.4	6.9	6.7	-74.08	16.7	-234.6	228.2	214.6	13.59	16.788	
2,100.0	2,098.9	2,105.1	2,102.8	7.3	7.0	-74.39	24.8	-234.1	225.0	210.6	14.32	15.709	
2,200.0	2,198.3	2,205.8	2,203.1	7.7	7.4	-75.20	32.9	-233.3	220.9	205.9	15.05	14.678	
2,300.0	2,297.4	2,304.6	2,301.6	8.0	7.7	-76.56	40.5	-232.6	216.6	200.8	15.78	13.726	
2,400.0	2,396.4	2,403.8	2,400.6	8.4	8.1	-78.27	47.6	-232.1	212.5	196.0	16.52	12.868	
2,500.0	2,495.5	2,503.3	2,499.9	8.8	8.5	-80.20	54.2	-231.7	208.8	191.5	17.26	12.099	
2,600.0	2,594.5	2,603.2	2,599.6	9.2	8.8	-82.37	60.3	-231.3	205.4	187.4	18.00	11.408	
2,700.0	2,693.5	2,703.6	2,699.9	9.6	9.2	-84.60	66.5	-230.6	201.9	183.2	18.75	10.769	
2,800.0	2,792.5	2,804.0	2,800.0	10.0	9.6	-86.81	73.2	-229.5	198.4	178.9	19.50	10.172	
2,900.0	2,891.6	2,904.4	2,900.1	10.3	9.9	-88.85	80.7	-228.3	194.8	174.5	20.26	9.615	
3,000.0	2,990.6	3,004.3	2,999.6	10.7	10.3	-90.72	89.1	-227.1	191.1	170.1	21.01	9.093	
3,100.0	3,089.6	3,103.8	3,098.8	11.1	10.7	-92.68	97.3	-225.9	187.7	165.9	21.77	8.622	
3,200.0	3,188.6	3,203.5	3,198.2	11.5	11.0	-94.86	105.0	-224.6	184.7	162.1	22.53	8.198	
3,300.0	3,287.7	3,303.1	3,297.6	11.9	11.4	-97.57	111.4	-222.7	181.9	158.6	23.28	7.814	
3,400.0	3,386.7	3,404.1	3,398.3	12.3	11.8	-100.65	117.3	-220.2	179.3	155.3	24.03	7.463	
3,500.0	3,485.7	3,505.5	3,499.4	12.7	12.1	-103.63	124.3	-217.1	176.2	151.4	24.77	7.114	
3,600.0	3,584.8	3,606.1	3,599.7	13.1	12.5	-106.82	131.3	-213.1	172.7	147.2	25.50	6.773	
3,653.6	3,637.9	3,659.9	3,653.4	13.3	12.7	-108.79	134.7	-210.4	170.8	145.0	25.89	6.599	
3,700.0	3,683.8	3,706.3	3,699.6	13.5	12.9	-110.54	137.4	-207.7	169.2	143.0	26.22	6.452	
3,800.0	3,783.2	3,805.6	3,798.5	13.9	13.2	-113.31	144.2	-202.9	165.3	138.4	26.95	6.135	
3,900.0	3,882.8	3,905.3	3,897.8	14.3	13.6	-114.25	153.4	-200.2	160.8	133.1	27.68	5.809	
4,000.0	3,982.6	4,003.6	3,995.6	14.7	14.0	-113.91	163.0	-198.8	155.8	127.4	28.42	5.481	
4,100.0	4,082.5	4,102.2	4,093.8	15.0	14.4	-112.57	172.3	-198.1	150.6	121.4	29.17	5.164	
4,187.0	4,169.5	4,188.4	4,179.7	15.3	14.7	-127.61	180.1	-197.9	145.9	116.0	29.81	4.893	
4,200.0	4,182.5	4,201.3	4,192.5	15.4	14.7	-127.26	181.2	-197.8	145.1	115.2	29.91	4.853	
4,300.0	4,282.5	4,300.4	4,291.1	15.7	15.1	-124.42	189.9	-197.8	140.0	109.3	30.65	4.568	
4,400.0	4,382.5	4,399.2	4,389.7	16.1	15.5	-121.44	198.2	-198.2	135.7	104.3	31.39	4.324	
4,500.0	4,482.5	4,499.1	4,489.2	16.4	15.8	-118.29	206.3	-198.9	132.2	100.1	32.13	4.116	
4,600.0	4,582.5	4,600.6	4,590.4	16.7	16.2	-114.91	215.0	-198.6	128.2	95.3	32.87	3.900	
4,700.0	4,682.5	4,700.9	4,690.2	17.1	16.6	-111.28	224.2	-197.3	123.3	89.7	33.60	3.670	
4,800.0	4,782.5	4,800.0	4,788.9	17.4	17.0	-107.41	233.3	-196.2	119.2	84.8	34.34	3.470	
4,900.0	4,882.5	4,899.2	4,887.7	17.8	17.4	-103.38	242.1	-195.3	116.0	80.9	35.08	3.306	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #201H - Wellbore #1 - Actual — **Offset Site Error:** 0.0 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,982.5	4,998.5	4,986.6	18.1	17.7	-99.49	250.2	-194.6	113.7	77.9	35.81	3.175	
5,100.0	5,082.5	5,097.8	5,085.7	18.5	18.1	-95.75	257.7	-194.2	112.2	75.7	36.53	3.072	
5,200.0	5,182.5	5,197.1	5,184.7	18.8	18.5	-91.90	265.3	-194.1	111.6	74.4	37.25	2.996	
5,220.0	5,202.5	5,217.0	5,204.5	18.9	18.5	-91.12	266.8	-194.1	111.6	74.2	37.39	2.984	CC
5,300.0	5,282.5	5,296.7	5,284.0	19.2	18.8	-88.16	272.5	-194.2	111.8	73.8	37.96	2.945	
5,400.0	5,382.5	5,396.5	5,383.6	19.5	19.2	-85.04	278.7	-194.5	112.4	73.7	38.67	2.907	
5,500.0	5,482.5	5,495.6	5,482.6	19.9	19.6	-82.85	283.1	-195.2	113.6	74.2	39.36	2.886	
5,600.0	5,582.5	5,594.8	5,581.7	20.2	19.9	-82.00	285.1	-197.0	115.6	75.6	40.05	2.887	
5,700.0	5,682.5	5,694.9	5,681.9	20.6	20.3	-81.81	285.7	-199.2	118.0	77.2	40.74	2.895	
5,800.0	5,782.5	5,795.3	5,782.2	20.9	20.6	-81.57	286.5	-201.2	120.1	78.6	41.43	2.898	
5,900.0	5,882.5	5,896.8	5,883.7	21.3	20.9	-81.46	287.0	-202.5	121.4	79.2	42.12	2.881	
6,000.0	5,982.5	5,998.0	5,984.9	21.6	21.3	-81.59	286.7	-202.6	121.4	78.6	42.80	2.837	
6,100.0	6,082.5	6,098.3	6,085.2	22.0	21.6	-82.04	285.7	-202.3	121.0	77.5	43.48	2.782	
6,200.0	6,182.5	6,198.5	6,185.4	22.3	21.9	-82.79	284.0	-201.8	120.3	76.1	44.16	2.724	
6,300.0	6,282.5	6,298.6	6,285.5	22.7	22.2	-83.50	282.5	-201.2	119.5	74.6	44.83	2.665	
6,400.0	6,382.5	6,398.5	6,385.3	23.0	22.6	-84.06	281.2	-200.5	118.7	73.2	45.51	2.607	
6,500.0	6,482.5	6,498.1	6,485.0	23.4	22.9	-84.53	280.2	-200.1	118.1	71.9	46.19	2.557	
6,600.0	6,582.5	6,597.9	6,584.8	23.7	23.2	-84.94	279.3	-199.9	117.8	70.9	46.88	2.513	
6,700.0	6,682.5	6,697.9	6,684.7	24.1	23.5	-85.35	278.5	-199.7	117.6	70.0	47.56	2.473	
6,800.0	6,782.5	6,797.8	6,784.6	24.4	23.9	-85.77	277.6	-199.6	117.4	69.2	48.24	2.434	
6,899.8	6,882.3	6,897.5	6,884.3	24.8	24.2	-86.19	276.8	-199.6	117.4	68.4	48.92	2.399	
6,900.0	6,882.5	6,897.7	6,884.5	24.8	24.2	-86.19	276.8	-199.6	117.4	68.4	48.93	2.399	
7,000.0	6,982.5	6,997.6	6,984.4	25.1	24.5	-86.58	276.0	-199.7	117.4	67.8	49.61	2.366	
7,100.0	7,082.5	7,097.6	7,084.4	25.5	24.9	-86.84	275.4	-199.8	117.5	67.2	50.30	2.336	
7,200.0	7,182.5	7,197.6	7,184.4	25.8	25.2	-87.00	275.1	-199.9	117.6	66.6	50.99	2.306	
7,300.0	7,282.5	7,297.7	7,284.5	26.2	25.5	-87.17	274.8	-199.9	117.6	65.9	51.68	2.275	
7,339.1	7,321.6	7,336.8	7,323.6	26.3	25.7	-87.24	274.6	-199.9	117.6	65.6	51.94	2.263	
7,400.0	7,382.5	7,397.6	7,384.4	26.5	25.9	-87.38	274.3	-200.0	117.6	65.2	52.36	2.245	
7,500.0	7,482.5	7,497.5	7,484.3	26.9	26.2	-87.67	273.7	-200.1	117.7	64.6	53.05	2.218	
7,600.0	7,582.5	7,597.4	7,584.2	27.3	26.5	-88.04	273.0	-200.3	117.9	64.2	53.74	2.194	
7,700.0	7,682.5	7,697.3	7,684.2	27.6	26.9	-88.50	272.1	-200.6	118.2	63.7	54.44	2.171	
7,800.0	7,782.5	7,797.5	7,784.3	28.0	27.2	-89.02	271.0	-200.9	118.4	63.3	55.13	2.148	
7,900.0	7,882.5	7,897.5	7,884.3	28.3	27.6	-89.58	269.8	-201.1	118.6	62.7	55.82	2.124	
8,000.0	7,982.5	7,997.2	7,984.0	28.7	27.9	-90.06	268.8	-201.4	118.9	62.4	56.51	2.104	
8,100.0	8,082.5	8,096.8	8,083.6	29.0	28.2	-90.38	268.2	-202.0	119.5	62.3	57.21	2.088	
8,200.0	8,182.5	8,196.5	8,183.3	29.4	28.6	-90.62	267.6	-202.8	120.3	62.4	57.90	2.078	
8,300.0	8,282.5	8,296.2	8,283.0	29.7	28.9	-90.83	267.2	-203.9	121.4	62.9	58.60	2.073	
8,400.0	8,382.5	8,396.0	8,382.8	30.1	29.3	-91.07	266.7	-205.2	122.7	63.4	59.29	2.070	
8,500.0	8,482.5	8,496.3	8,483.0	30.4	29.6	-91.36	266.0	-206.6	124.1	64.1	59.99	2.068	
8,600.0	8,582.5	8,596.9	8,583.7	30.8	29.9	-91.68	265.3	-207.4	125.0	64.3	60.70	2.059	
8,700.0	8,682.5	8,697.4	8,684.2	31.1	30.3	-92.03	264.5	-207.8	125.4	64.0	61.39	2.043	
8,800.0	8,782.5	8,797.7	8,784.5	31.5	30.6	-92.40	263.7	-207.9	125.6	63.5	62.09	2.022	
8,900.0	8,882.5	8,897.9	8,884.6	31.9	31.0	-92.82	262.8	-207.8	125.5	62.7	62.79	1.999	
9,000.0	8,982.5	8,998.0	8,984.7	32.2	31.3	-93.32	261.7	-207.6	125.3	61.9	63.48	1.974	
9,036.8	9,019.3	9,034.8	9,021.5	32.3	31.4	-93.52	261.3	-207.6	125.3	61.5	63.74	1.966	
9,100.0	9,082.5	9,097.1	9,083.9	32.6	31.6	-93.83	260.6	-207.7	125.5	61.3	64.18	1.955	
9,200.0	9,182.5	9,196.1	9,182.8	32.9	32.0	-94.21	259.7	-208.5	126.4	61.5	64.87	1.948	
9,300.0	9,282.5	9,295.9	9,282.6	33.3	32.3	-94.52	258.9	-209.9	127.8	62.3	65.57	1.950	
9,400.0	9,382.5	9,395.7	9,382.4	33.6	32.7	-94.80	258.1	-211.4	129.4	63.1	66.27	1.953	
9,500.0	9,482.5	9,496.0	9,482.6	34.0	33.0	-95.17	257.2	-212.9	130.9	64.0	66.97	1.955	
9,600.0	9,582.5	9,596.3	9,583.0	34.3	33.4	-95.73	255.7	-214.1	132.2	64.6	67.67	1.954	
9,700.0	9,682.5	9,697.2	9,683.8	34.7	33.7	-96.22	254.5	-214.8	133.1	64.7	68.38	1.946	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #201H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 235-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,800.0	9,782.5	9,798.0	9,784.7	35.1	34.1	-96.45	254.0	-214.9	133.3	64.2	69.08	1.929	
9,900.0	9,882.5	9,898.9	9,885.5	35.4	34.4	-96.79	253.2	-214.4	132.8	63.0	69.78	1.903	
10,000.0	9,982.5	9,999.1	9,985.8	35.8	34.7	-97.40	252.0	-213.2	131.8	61.3	70.48	1.870	
10,003.5	9,986.0	10,002.6	9,989.2	35.8	34.8	-97.42	251.9	-213.1	131.7	61.2	70.50	1.869	
10,050.0	10,032.4	10,048.7	10,035.3	35.9	34.9	71.81	251.2	-212.7	130.8	60.0	70.81	1.847	
10,100.0	10,082.0	10,098.0	10,084.6	36.1	35.1	74.20	250.3	-212.3	128.7	57.5	71.13	1.809	
10,150.0	10,130.9	10,146.6	10,133.2	36.2	35.3	78.52	249.4	-212.1	126.0	54.5	71.43	1.764	
10,200.0	10,178.7	10,194.6	10,181.2	36.4	35.4	84.74	248.3	-212.0	123.6	51.9	71.71	1.723	
10,241.2	10,216.9	10,233.3	10,219.8	36.5	35.5	91.08	247.4	-211.9	122.7	50.8	71.92	1.706 ES	
10,250.0	10,225.0	10,241.4	10,228.0	36.5	35.6	92.55	247.2	-211.9	122.8	50.8	71.96	1.706 SF	
10,300.0	10,269.4	10,286.6	10,273.1	36.6	35.7	101.31	246.0	-211.8	125.3	53.1	72.18	1.736	
10,350.0	10,311.8	10,329.8	10,316.3	36.7	35.9	110.13	244.7	-211.7	132.8	60.5	72.37	1.835	
10,400.0	10,351.6	10,370.6	10,357.2	36.8	36.0	118.14	243.5	-211.6	146.4	73.9	72.54	2.019	
10,450.0	10,388.7	10,408.7	10,395.2	36.9	36.1	124.80	242.3	-211.5	166.4	93.7	72.72	2.289	
10,500.0	10,422.7	10,443.8	10,430.3	37.0	36.3	129.91	241.2	-211.3	192.4	119.5	72.89	2.639	
10,550.0	10,453.3	10,475.7	10,462.2	37.1	36.4	133.49	240.2	-211.2	223.5	150.4	73.05	3.059	
10,600.0	10,480.4	10,504.0	10,490.5	37.2	36.5	135.59	239.3	-211.1	258.9	185.7	73.20	3.537	
10,650.0	10,503.8	10,528.7	10,515.2	37.3	36.6	136.22	238.5	-210.9	298.0	224.7	73.33	4.064	
10,700.0	10,523.2	10,549.8	10,536.2	37.4	36.6	135.29	237.9	-210.8	340.1	266.6	73.44	4.631	
10,750.0	10,538.5	10,566.8	10,553.3	37.5	36.7	132.34	237.3	-210.7	384.4	310.9	73.52	5.229	
10,800.0	10,549.6	10,579.7	10,566.1	37.6	36.7	126.55	236.9	-210.6	430.6	357.0	73.58	5.852	
10,850.0	10,556.5	10,588.2	10,574.6	37.7	36.8	116.40	236.6	-210.6	478.1	404.5	73.63	6.494	
10,900.0	10,558.9	10,592.3	10,578.7	37.9	36.8	99.96	236.5	-210.6	526.5	452.8	73.65	7.149	
10,903.5	10,559.0	10,592.4	10,578.9	37.9	36.8	98.54	236.5	-210.6	529.9	456.3	73.65	7.195	
11,000.0	10,559.0	10,595.6	10,582.0	38.2	36.8	101.87	236.4	-210.5	624.6	550.9	73.67	8.478	
11,100.0	10,559.0	11,579.2	11,226.6	38.5	39.6	-176.28	-376.5	-168.7	677.2	643.0	34.13	19.843	
11,200.0	10,559.0	11,778.1	11,241.3	38.9	40.4	-174.66	-574.6	-172.8	683.5	650.0	33.51	20.396	
11,300.0	10,559.0	11,874.9	11,243.4	39.4	40.8	-174.19	-671.4	-174.9	686.2	652.0	34.22	20.052	
11,400.0	10,559.0	11,986.6	11,245.7	40.0	41.4	-173.97	-783.0	-177.1	688.5	653.5	34.99	19.680	
11,488.5	10,559.0	12,091.4	11,244.7	40.5	42.0	-174.11	-887.8	-179.6	687.6	651.8	35.74	19.236	
11,500.0	10,559.0	12,103.9	11,244.5	40.5	42.1	-174.15	-900.3	-180.0	687.3	651.5	35.83	19.181	
11,600.0	10,559.0	12,207.1	11,242.3	41.2	42.8	-174.48	-1,003.5	-183.4	684.8	648.2	36.57	18.728	
11,700.0	10,559.0	12,310.3	11,239.9	41.9	43.5	-174.90	-1,106.5	-188.0	681.9	644.6	37.33	18.266	
11,800.0	10,559.0	12,396.5	11,238.3	42.6	44.2	-175.24	-1,192.6	-191.6	679.7	641.8	37.94	17.917	
11,867.3	10,559.0	12,456.6	11,238.2	43.2	44.6	-175.39	-1,252.7	-193.0	679.4	641.0	38.44	17.677	
11,900.0	10,559.0	12,486.5	11,238.3	43.4	44.9	-175.48	-1,282.5	-193.8	679.5	640.8	38.69	17.563	
12,000.0	10,559.0	12,591.7	11,239.0	44.3	45.8	-175.85	-1,387.7	-197.4	679.8	640.2	39.63	17.155	
12,100.0	10,559.0	12,693.6	11,238.7	45.2	46.7	-176.16	-1,489.5	-200.5	679.3	638.7	40.58	16.737	
12,200.0	10,559.0	12,792.7	11,238.2	46.1	47.6	-176.29	-1,588.6	-201.4	678.7	637.1	41.58	16.322	
12,300.0	10,559.0	12,910.4	11,236.0	47.1	48.7	-176.52	-1,706.3	-203.4	676.6	633.8	42.87	15.781	
12,400.0	10,559.0	13,000.4	11,233.9	48.1	49.6	-176.72	-1,796.2	-205.2	674.2	630.4	43.78	15.400	
12,456.8	10,559.0	13,046.5	11,233.6	48.7	50.1	-176.81	-1,842.3	-206.0	673.7	629.5	44.25	15.227	
12,500.0	10,559.0	13,081.4	11,233.9	49.1	50.5	-176.88	-1,877.3	-206.6	674.0	629.4	44.62	15.106	
12,600.0	10,559.0	13,178.4	11,235.4	50.2	51.5	-177.04	-1,974.2	-207.7	675.4	629.7	45.71	14.778	
12,700.0	10,559.0	13,277.7	11,237.2	51.3	52.6	-177.24	-2,073.5	-209.3	677.2	630.3	46.84	14.457	
12,800.0	10,559.0	13,373.5	11,239.3	52.4	53.7	-177.25	-2,169.2	-208.7	679.3	631.3	47.99	14.155	
12,900.0	10,559.0	13,487.4	11,241.5	53.6	55.0	-176.91	-2,283.0	-203.7	681.6	632.1	49.45	13.783	
13,000.0	10,559.0	13,614.5	11,237.4	54.8	56.5	-176.47	-2,409.9	-197.8	678.1	626.9	51.22	13.240	
13,100.0	10,559.0	13,694.8	11,235.1	56.0	57.5	-176.11	-2,490.0	-193.1	675.7	623.5	52.23	12.937	
13,118.5	10,559.0	13,708.7	11,235.0	56.2	57.6	-176.03	-2,503.9	-192.2	675.7	623.3	52.42	12.890	
13,200.0	10,559.0	13,786.1	11,235.3	57.2	58.6	-175.58	-2,581.0	-186.2	676.4	622.9	53.52	12.638	
13,300.0	10,559.0	13,920.3	11,232.7	58.5	60.3	-174.88	-2,714.9	-177.2	675.1	619.5	55.60	12.142	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #201H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 235-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,400.0	10,559.0	14,008.5	11,229.2	59.8	61.4	-174.42	-2,802.9	-171.5	671.6	614.8	56.86	11.811	
13,500.0	10,559.0	14,101.5	11,226.8	61.0	62.6	-174.07	-2,895.7	-166.9	669.5	611.3	58.20	11.504	
13,600.0	10,559.0	14,203.3	11,224.9	62.4	63.9	-173.86	-2,997.4	-164.0	667.9	608.2	59.66	11.194	
13,700.0	10,559.0	14,294.2	11,223.9	63.7	65.1	-173.86	-3,088.3	-163.5	666.8	605.9	60.87	10.954	
13,800.0	10,559.0	14,410.0	11,221.8	65.0	66.7	-174.18	-3,204.1	-166.7	664.5	602.1	62.39	10.652	
13,900.0	10,559.0	14,497.3	11,220.5	66.4	67.8	-174.36	-3,291.3	-168.3	662.7	599.3	63.47	10.441	
14,000.0	10,559.0	14,591.8	11,220.1	67.7	69.1	-174.44	-3,385.9	-168.6	662.2	597.5	64.74	10.230	
14,009.7	10,559.0	14,600.9	11,220.1	67.9	69.2	-174.45	-3,394.9	-168.6	662.2	597.4	64.86	10.210	
14,100.0	10,559.0	14,687.1	11,220.4	69.1	70.4	-174.43	-3,481.2	-167.8	662.6	596.5	66.06	10.030	
14,200.0	10,559.0	14,796.9	11,220.5	70.5	71.9	-174.47	-3,590.9	-167.4	662.6	595.0	67.62	9.799	
14,300.0	10,559.0	14,905.9	11,218.8	71.9	73.5	-174.76	-3,699.8	-170.2	660.7	591.7	69.08	9.566	
14,400.0	10,559.0	15,001.3	11,217.2	73.3	74.8	-175.11	-3,795.2	-173.7	658.7	588.5	70.28	9.373	
14,500.0	10,559.0	15,099.9	11,216.6	74.8	76.2	-175.55	-3,893.7	-178.2	657.7	586.1	71.52	9.196	
14,600.0	10,559.0	15,204.5	11,215.3	76.2	77.6	-176.18	-3,998.1	-184.7	655.9	583.1	72.82	9.008	
14,700.0	10,559.0	15,311.6	11,213.2	77.6	79.2	-176.63	-4,105.0	-189.4	653.6	579.4	74.24	8.805	
14,800.0	10,559.0	15,404.2	11,210.8	79.1	80.5	-176.93	-4,197.5	-192.3	650.9	575.4	75.46	8.625	
14,889.0	10,559.0	15,481.1	11,210.2	80.4	81.6	-177.09	-4,274.4	-193.5	650.0	573.5	76.49	8.498	
14,900.0	10,559.0	15,490.5	11,210.2	80.5	81.7	-177.09	-4,283.9	-193.5	650.0	573.4	76.62	8.484	
15,000.0	10,559.0	15,586.4	11,211.0	82.0	83.1	-176.98	-4,379.7	-191.5	650.9	572.9	78.02	8.343	
15,100.0	10,559.0	15,683.9	11,211.8	83.5	84.6	-176.97	-4,477.2	-190.6	651.8	572.4	79.43	8.206	
15,200.0	10,559.0	15,777.9	11,213.4	84.9	85.9	-176.90	-4,571.2	-189.2	653.5	572.7	80.80	8.089	
15,300.0	10,559.0	15,887.6	11,215.2	86.4	87.6	-176.52	-4,680.8	-183.9	655.4	572.9	82.55	7.940	
15,400.0	10,559.0	16,008.8	11,213.8	87.9	89.4	-176.14	-4,801.9	-178.9	654.5	570.0	84.51	7.745	
15,500.0	10,559.0	16,094.6	11,212.4	89.4	90.7	-175.79	-4,887.5	-174.3	653.2	567.4	85.87	7.608	
15,514.9	10,559.0	16,107.4	11,212.4	89.6	90.8	-175.72	-4,900.2	-173.5	653.2	567.1	86.07	7.589	
15,600.0	10,559.0	16,179.5	11,212.7	90.9	91.9	-175.32	-4,972.2	-168.3	654.1	566.8	87.26	7.496	
15,700.0	10,559.0	16,289.4	11,213.7	92.4	93.6	-174.67	-5,081.7	-160.0	655.6	566.4	89.23	7.348	
15,800.0	10,559.0	16,399.6	11,212.9	93.9	95.3	-174.45	-5,191.9	-156.8	655.0	564.0	91.02	7.196	
15,845.9	10,559.0	16,438.8	11,212.7	94.6	95.8	-174.47	-5,231.0	-156.8	654.8	563.2	91.57	7.150	
15,900.0	10,559.0	16,486.1	11,213.0	95.5	96.6	-174.48	-5,278.4	-156.6	655.1	562.8	92.25	7.101	
16,000.0	10,559.0	16,588.2	11,214.1	97.0	98.1	-174.56	-5,380.5	-156.6	656.1	562.4	93.75	6.999	
16,100.0	10,559.0	16,702.1	11,213.7	98.5	99.8	-174.82	-5,494.3	-158.9	655.5	560.1	95.37	6.873	
16,200.0	10,559.0	16,801.1	11,212.6	100.0	101.3	-175.06	-5,593.3	-161.0	654.1	557.3	96.74	6.761	
16,300.0	10,559.0	16,893.8	11,212.0	101.6	102.7	-175.26	-5,686.0	-162.7	653.2	555.2	98.01	6.665	
16,400.0	10,559.0	17,058.3	11,207.8	103.1	105.2	-175.38	-5,850.3	-163.3	652.2	551.7	100.46	6.492	
16,500.0	10,559.0	17,153.2	11,199.1	104.6	106.7	-175.54	-5,944.8	-165.2	642.8	541.0	101.81	6.314	
16,600.0	10,559.0	17,228.7	11,193.7	106.2	107.9	-175.69	-6,020.1	-166.7	635.5	532.6	102.90	6.176	
16,700.0	10,559.0	17,312.9	11,190.3	107.7	109.2	-175.80	-6,104.3	-167.6	631.3	527.2	104.09	6.065	
16,796.4	10,559.0	17,390.4	11,189.0	109.2	110.4	-175.78	-6,181.7	-166.9	629.8	524.5	105.22	5.985	
16,800.0	10,559.0	17,393.2	11,189.0	109.3	110.4	-175.78	-6,184.5	-166.9	629.8	524.5	105.26	5.983	
16,900.0	10,559.0	17,484.1	11,190.1	110.8	111.8	-175.60	-6,275.4	-164.2	631.0	524.3	106.68	5.915	
17,000.0	10,559.0	17,582.1	11,191.5	112.4	113.3	-175.38	-6,373.3	-160.9	632.7	524.4	108.27	5.844	
17,100.0	10,559.0	17,674.4	11,193.4	113.9	114.8	-175.04	-6,465.4	-156.4	635.1	525.3	109.80	5.783	
17,200.0	10,559.0	17,772.5	11,196.4	115.5	116.3	-174.65	-6,563.4	-151.0	638.6	527.1	111.52	5.726	
17,300.0	10,559.0	17,873.2	11,199.5	117.1	117.9	-174.44	-6,664.0	-147.8	641.9	528.7	113.20	5.670	
17,400.0	10,559.0	17,979.0	11,202.4	118.6	119.5	-174.24	-6,769.7	-144.5	644.9	529.9	114.99	5.608	
17,500.0	10,559.0	18,091.9	11,204.0	120.2	121.3	-174.17	-6,882.6	-142.7	646.3	529.5	116.84	5.532	
17,600.0	10,559.0	18,187.1	11,204.8	121.8	122.8	-174.27	-6,977.8	-143.1	647.1	528.9	118.22	5.474	
17,700.0	10,559.0	18,280.2	11,206.4	123.3	124.3	-174.32	-7,070.8	-142.8	648.8	529.2	119.58	5.425	
17,800.0	10,559.0	18,368.6	11,209.1	124.9	125.6	-174.35	-7,159.2	-142.3	651.8	531.0	120.84	5.394	
17,900.0	10,559.0	18,503.6	11,209.3	126.5	127.8	-174.39	-7,294.1	-141.9	651.5	528.4	123.06	5.294	
17,933.1	10,559.0	18,527.7	11,209.1	127.0	128.1	-174.40	-7,318.2	-141.8	651.3	527.9	123.40	5.278	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #201H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 235-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,000.0	10,559.0	18,584.5	11,209.9	128.1	129.0	-174.41	-7,375.1	-141.5	652.1	527.9	124.23	5.250	
18,100.0	10,559.0	18,699.1	11,209.7	129.7	130.8	-174.56	-7,489.6	-142.3	651.6	525.7	125.95	5.174	
18,134.3	10,559.0	18,728.9	11,209.7	130.2	131.3	-174.64	-7,519.4	-143.1	651.5	525.2	126.34	5.157	
18,200.0	10,559.0	18,795.8	11,210.1	131.2	132.4	-174.92	-7,586.2	-145.7	651.7	524.5	127.19	5.124	
18,300.0	10,559.0	18,897.1	11,209.8	132.8	133.9	-175.42	-7,687.4	-150.8	650.9	522.5	128.43	5.068	
18,319.3	10,559.0	18,914.2	11,209.9	133.1	134.2	-175.47	-7,704.5	-151.3	650.9	522.3	128.66	5.059	
18,400.0	10,559.0	18,991.8	11,210.3	134.4	135.4	-175.52	-7,782.2	-151.3	651.3	521.5	129.81	5.017	
18,500.0	10,559.0	19,084.6	11,210.6	136.0	136.9	-175.26	-7,874.9	-147.6	651.9	520.6	131.36	4.963	
18,600.0	10,559.0	19,181.6	11,212.7	137.6	138.5	-174.95	-7,971.7	-143.2	654.4	521.3	133.05	4.918	
18,700.0	10,559.0	19,320.8	11,211.6	139.2	140.7	-174.47	-8,110.7	-136.8	654.1	518.5	135.64	4.822	
18,800.0	10,559.0	19,405.3	11,209.0	140.8	142.0	-174.31	-8,195.1	-134.6	651.3	514.2	137.08	4.751	
18,896.9	10,559.0	19,492.1	11,208.3	142.3	143.4	-174.24	-8,282.0	-133.3	650.6	512.2	138.46	4.699	
18,900.0	10,559.0	19,495.0	11,208.3	142.4	143.4	-174.24	-8,284.8	-133.3	650.6	512.1	138.50	4.698	
19,000.0	10,559.0	19,595.9	11,208.6	144.0	145.0	-174.38	-8,385.7	-134.2	650.7	510.8	139.95	4.649	
19,100.0	10,559.0	19,718.7	11,207.0	145.6	147.0	-174.90	-8,508.4	-139.4	649.0	507.5	141.49	4.587	
19,200.0	10,559.0	19,797.2	11,206.4	147.2	148.2	-175.30	-8,586.8	-143.4	647.6	505.2	142.40	4.548	
19,219.7	10,559.0	19,815.3	11,206.5	147.5	148.5	-175.39	-8,604.9	-144.3	647.6	505.0	142.61	4.541	
19,300.0	10,559.0	19,889.1	11,207.2	148.7	149.7	-175.74	-8,678.6	-147.7	648.0	504.5	143.50	4.516	
19,400.0	10,559.0	19,983.5	11,208.8	150.3	151.2	-176.06	-8,772.9	-150.6	649.5	504.8	144.72	4.488	
19,500.0	10,559.0	20,101.1	11,209.1	151.9	153.0	-176.55	-8,890.5	-155.3	649.3	503.0	146.35	4.437	
19,535.6	10,559.0	20,131.6	11,209.1	152.5	153.5	-176.65	-8,920.9	-156.2	649.2	502.4	146.75	4.424	
19,600.0	10,559.0	20,194.2	11,209.5	153.6	154.5	-176.70	-8,983.5	-156.4	649.6	501.9	147.68	4.398	
19,700.0	10,559.0	20,304.5	11,208.2	155.2	156.3	-176.91	-9,093.8	-158.0	648.2	498.9	149.31	4.341	
19,761.2	10,559.0	20,357.2	11,208.0	156.1	157.1	-177.09	-9,146.5	-159.8	647.8	497.8	150.01	4.318	
19,800.0	10,559.0	20,390.1	11,208.2	156.8	157.6	-177.21	-9,179.3	-160.8	648.0	497.5	150.45	4.307	
19,900.0	10,559.0	20,474.1	11,210.0	158.4	159.0	-177.26	-9,263.3	-160.7	650.1	498.5	151.61	4.288	
20,000.0	10,559.0	20,557.8	11,213.9	160.0	160.3	-177.13	-9,346.9	-158.4	654.8	502.1	152.78	4.286	
20,100.0	10,559.0	20,663.7	11,219.6	161.6	162.0	-176.70	-9,452.5	-152.5	660.5	505.8	154.70	4.270	
20,200.0	10,559.0	20,805.1	11,222.1	163.2	164.3	-175.72	-9,593.2	-140.0	663.0	505.2	157.74	4.203	
20,286.8	10,559.0	20,884.4	11,220.1	164.6	165.6	-175.06	-9,672.2	-131.9	661.5	502.1	159.45	4.149	
20,300.0	10,559.0	20,893.8	11,220.0	164.8	165.7	-174.97	-9,681.5	-130.8	661.6	501.9	159.66	4.144	
20,400.0	10,559.0	20,978.9	11,220.9	166.4	167.1	-174.01	-9,765.7	-119.0	663.9	502.1	161.73	4.105	
20,500.0	10,559.0	21,086.7	11,222.3	168.0	168.9	-172.91	-9,872.6	-105.3	666.5	501.9	164.64	4.048	
20,600.0	10,559.0	21,212.0	11,221.7	169.6	170.9	-172.44	-9,997.7	-98.9	666.7	499.4	167.26	3.986	
20,700.0	10,559.0	21,304.8	11,220.4	171.2	172.4	-172.33	-10,090.5	-97.2	665.4	496.5	168.86	3.940	
20,800.0	10,559.0	21,400.8	11,219.7	172.8	173.9	-172.22	-10,186.5	-95.4	664.8	494.3	170.51	3.899	
20,900.0	10,559.0	21,514.9	11,218.2	174.5	175.8	-172.26	-10,300.5	-95.3	663.4	491.2	172.28	3.851	
21,000.0	10,559.0	21,627.0	11,215.0	176.1	177.6	-172.41	-10,412.6	-96.7	660.4	486.6	173.83	3.799	
21,100.0	10,559.0	21,718.3	11,211.0	177.7	179.0	-172.57	-10,503.8	-98.4	655.8	480.7	175.11	3.745	
21,152.4	10,559.0	21,751.8	11,210.6	178.5	179.6	-172.61	-10,537.3	-98.6	655.0	479.4	175.58	3.731	
21,200.0	10,559.0	21,790.1	11,211.1	179.3	180.2	-172.62	-10,575.6	-98.5	655.6	479.5	176.12	3.723	
21,300.0	10,559.0	21,924.8	11,205.9	180.9	182.4	-172.49	-10,710.2	-96.7	651.0	472.5	178.46	3.648	
21,400.0	10,559.0	22,006.9	11,204.2	182.5	183.7	-172.39	-10,792.2	-95.2	649.0	469.1	179.92	3.607	
21,496.9	10,559.0	22,104.7	11,202.8	184.1	185.3	-172.21	-10,890.0	-92.6	647.8	466.1	181.72	3.565	
21,500.0	10,559.0	22,092.0	11,203.0	184.2	185.1	-172.24	-10,877.3	-93.0	648.0	466.6	181.42	3.572	
21,600.0	10,559.0	22,092.0	11,203.0	185.8	185.1	-172.24	-10,877.3	-93.0	656.8	477.6	179.19	3.666	
21,700.0	10,559.0	22,092.0	11,203.0	187.4	185.1	-172.24	-10,877.3	-93.0	680.4	506.3	174.14	3.907	
21,800.0	10,559.0	22,092.0	11,203.0	189.0	185.1	-172.24	-10,877.3	-93.0	717.3	550.1	167.18	4.290	
21,900.0	10,559.0	22,092.0	11,203.0	190.6	185.1	-172.24	-10,877.3	-93.0	765.5	606.2	159.33	4.805	
22,000.0	10,559.0	22,092.0	11,203.0	192.3	185.1	-172.24	-10,877.3	-93.0	823.1	671.7	151.40	5.437	
22,100.0	10,559.0	22,092.0	11,203.0	193.9	185.1	-172.24	-10,877.3	-93.0	888.3	744.4	143.92	6.172	
22,200.0	10,559.0	22,092.0	11,203.0	195.5	185.1	-172.24	-10,877.3	-93.0	959.5	822.3	137.15	6.996	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #201H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 235-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
22,300.0	10,559.0	22,092.0	11,203.0	197.1	185.1	-172.24	-10,877.3	-93.0	1,035.4	904.2	131.18	7.893	
22,400.0	10,559.0	22,092.0	11,203.0	198.7	185.1	-172.24	-10,877.3	-93.0	1,115.2	989.2	126.00	8.851	
22,500.0	10,559.0	22,092.0	11,203.0	200.4	185.1	-172.24	-10,877.3	-93.0	1,198.0	1,076.4	121.55	9.856	
22,600.0	10,559.0	22,092.0	11,203.0	202.0	185.1	-172.24	-10,877.3	-93.0	1,283.2	1,165.5	117.73	10.899	
22,700.0	10,559.0	22,092.0	11,203.0	203.6	185.1	-172.24	-10,877.3	-93.0	1,370.5	1,256.0	114.48	11.972	
22,800.0	10,559.0	22,092.0	11,203.0	205.2	185.1	-172.24	-10,877.3	-93.0	1,459.4	1,347.7	111.69	13.066	
22,900.0	10,559.0	22,092.0	11,203.0	206.9	185.1	-172.24	-10,877.3	-93.0	1,549.6	1,440.3	109.31	14.176	
23,000.0	10,559.0	22,092.0	11,203.0	208.5	185.1	-172.24	-10,877.3	-93.0	1,641.0	1,533.7	107.27	15.298	
23,028.2	10,559.0	22,092.0	11,203.0	208.9	185.1	-172.24	-10,877.3	-93.0	1,666.9	1,560.1	106.75	15.615	
23,028.8	10,559.0	22,092.0	11,203.0	209.0	185.1	-172.24	-10,877.3	-93.0	1,667.4	1,556.8	110.63	15.073	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #215H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 235-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.0	1.0	0.0	0.0	-99.27	-31.0	-189.9	192.4				
100.0	100.0	101.5	101.5	0.1	0.2	-99.23	-30.8	-189.8	192.3	192.0	0.29	666.168	
200.0	200.0	202.0	202.0	0.5	0.3	-99.11	-30.4	-189.4	191.9	191.1	0.81	238.272	
300.0	300.0	301.7	301.7	0.8	0.6	-98.95	-29.8	-189.0	191.4	189.9	1.45	131.687	
400.0	400.0	401.1	401.1	1.2	1.0	-98.84	-29.4	-188.9	191.1	189.0	2.17	88.280	
500.0	500.0	501.4	501.4	1.6	1.3	-98.78	-29.1	-188.8	191.1	188.2	2.88	66.320	
600.0	600.0	602.0	602.0	1.9	1.7	-98.66	-28.7	-188.5	190.7	187.1	3.60	53.005	
700.0	700.0	701.8	701.8	2.3	2.0	-98.48	-28.0	-188.2	190.2	185.9	4.31	44.106	
800.0	800.0	801.6	801.6	2.6	2.4	-98.21	-27.1	-187.9	189.9	184.8	5.03	37.761	
848.0	848.0	849.1	849.0	2.8	2.6	-98.07	-26.6	-187.9	189.8	184.5	5.37	35.360	
900.0	900.0	900.5	900.5	3.0	2.7	-97.93	-26.2	-188.1	189.9	184.2	5.74	33.101	
1,000.0	1,000.0	999.6	999.6	3.4	3.1	-97.68	-25.4	-188.7	190.4	184.0	6.45	29.541	
1,100.0	1,100.0	1,099.0	1,098.9	3.7	3.4	-97.42	-24.7	-189.7	191.3	184.2	7.15	26.749	
1,200.0	1,200.0	1,198.4	1,198.3	4.1	3.8	-97.20	-24.1	-191.0	192.5	184.7	7.86	24.506	
1,300.0	1,300.0	1,297.8	1,297.7	4.4	4.1	-97.08	-23.9	-192.6	194.1	185.5	8.56	22.669	
1,400.0	1,400.0	1,397.1	1,397.1	4.8	4.5	-97.01	-23.9	-194.4	195.9	186.7	9.26	21.148	
1,500.0	1,500.0	1,499.4	1,499.3	5.1	4.8	-97.10	-24.4	-196.0	197.6	187.6	9.97	19.807	
1,600.0	1,600.0	1,602.8	1,602.7	5.5	5.2	-80.78	-26.0	-195.8	197.4	186.7	10.68	18.477	
1,700.0	1,700.0	1,708.1	1,707.9	5.9	5.5	-82.28	-28.0	-193.2	194.9	183.5	11.39	17.104	
1,800.0	1,799.9	1,813.4	1,813.1	6.2	5.9	-84.30	-29.0	-187.7	189.3	177.2	12.09	15.656	
1,900.0	1,899.7	1,916.8	1,916.2	6.6	6.3	-86.96	-29.4	-179.7	181.4	168.6	12.79	14.178	
2,000.0	1,999.4	2,019.3	2,018.2	6.9	6.6	-90.47	-29.1	-169.6	171.6	158.1	13.49	12.722	
2,100.0	2,098.9	2,120.0	2,118.2	7.3	7.0	-94.67	-27.5	-158.6	161.1	146.9	14.19	11.353	
2,200.0	2,198.3	2,219.3	2,216.9	7.7	7.3	-99.62	-24.6	-147.1	150.6	135.7	14.90	10.108	
2,300.0	2,297.4	2,316.5	2,313.4	8.0	7.7	-105.69	-21.8	-136.3	142.3	126.7	15.64	9.099	
2,400.0	2,396.4	2,415.2	2,411.5	8.4	8.1	-112.79	-19.5	-125.7	136.7	120.3	16.38	8.347	
2,500.0	2,495.5	2,515.8	2,511.2	8.8	8.5	-121.08	-17.0	-113.0	132.1	115.0	17.12	7.718	
2,600.0	2,594.5	2,614.2	2,608.6	9.2	8.8	-130.24	-14.5	-98.7	129.2	111.3	17.88	7.227	
2,630.6	2,624.8	2,644.0	2,638.1	9.3	8.9	-133.05	-13.7	-94.4	129.0	110.9	18.12	7.122	CC, ES
2,700.0	2,693.5	2,711.6	2,705.0	9.6	9.2	-139.30	-12.0	-84.9	129.9	111.3	18.65	6.966	
2,800.0	2,792.5	2,809.1	2,801.5	10.0	9.6	-147.74	-9.4	-71.9	134.1	114.7	19.41	6.909	
2,900.0	2,891.6	2,906.7	2,898.3	10.3	10.0	-155.22	-6.9	-59.6	141.4	121.2	20.16	7.013	
3,000.0	2,990.6	3,006.1	2,997.0	10.7	10.4	-161.83	-4.2	-47.7	150.7	129.8	20.91	7.209	
3,100.0	3,089.6	3,106.5	3,096.4	11.1	10.7	-168.05	-0.1	-34.6	160.6	138.9	21.66	7.413	
3,200.0	3,188.6	3,204.2	3,193.2	11.5	11.1	-173.62	4.7	-21.2	171.3	148.9	22.40	7.648	
3,300.0	3,287.7	3,301.2	3,289.2	11.9	11.5	-178.29	8.8	-8.4	184.1	161.0	23.14	7.957	
3,400.0	3,386.7	3,399.5	3,386.6	12.3	11.9	177.66	12.7	4.5	198.2	174.3	23.88	8.300	
3,500.0	3,485.7	3,498.0	3,484.0	12.7	12.3	173.94	17.0	18.0	213.0	188.4	24.62	8.650	
3,600.0	3,584.8	3,592.5	3,577.5	13.1	12.7	170.70	20.9	31.7	229.1	203.8	25.33	9.043	
3,653.6	3,637.9	3,642.7	3,627.1	13.3	12.9	169.14	22.4	39.4	238.7	213.0	25.71	9.287	
3,700.0	3,683.8	3,686.0	3,669.8	13.5	13.1	167.91	23.3	46.1	247.3	221.3	26.03	9.503	
3,800.0	3,783.2	3,788.3	3,770.8	13.9	13.5	165.16	25.8	62.1	264.2	237.4	26.82	9.851	
3,900.0	3,882.8	3,893.2	3,874.4	14.3	13.9	162.39	30.8	77.7	276.8	249.2	27.63	10.021	
4,000.0	3,982.6	3,993.3	3,973.4	14.7	14.4	159.90	36.4	91.4	286.2	257.8	28.38	10.085	
4,100.0	4,082.5	4,094.2	4,073.4	15.0	14.8	157.66	41.6	103.6	293.1	263.9	29.14	10.059	
4,187.0	4,169.5	4,182.4	4,160.9	15.3	15.1	138.54	46.6	114.0	296.9	267.1	29.79	9.965	
4,200.0	4,182.5	4,195.6	4,174.0	15.4	15.2	138.21	47.4	115.5	297.3	267.4	29.89	9.947	
4,300.0	4,282.5	4,296.6	4,274.0	15.7	15.6	135.57	54.5	127.7	300.5	269.8	30.63	9.808	
4,400.0	4,382.5	4,396.9	4,373.3	16.1	16.0	132.96	62.1	139.6	303.7	272.4	31.37	9.681	
4,500.0	4,482.5	4,498.5	4,473.9	16.4	16.4	130.41	70.0	151.2	307.1	275.0	32.12	9.561	
4,600.0	4,582.5	4,601.8	4,576.2	16.7	16.8	127.82	79.0	162.2	309.8	276.9	32.87	9.425	
4,700.0	4,682.5	4,700.6	4,674.1	17.1	17.2	125.34	88.5	172.0	312.2	278.6	33.59	9.293	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #215H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 235-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.0	4,782.5	4,795.7	4,768.4	17.4	17.6	123.11	96.5	181.9	316.1	281.8	34.28	9.220	
4,900.0	4,882.5	4,894.3	4,866.0	17.8	18.0	120.96	103.8	192.7	321.4	286.4	35.00	9.185	
5,000.0	4,982.5	4,995.3	4,966.0	18.1	18.4	118.57	112.9	204.1	326.8	291.1	35.73	9.147	
5,100.0	5,082.5	5,096.0	5,065.5	18.5	18.8	116.06	123.3	215.5	332.2	295.7	36.46	9.112	
5,200.0	5,182.5	5,196.6	5,165.0	18.8	19.2	113.64	133.8	226.4	337.7	300.5	37.19	9.080	
5,300.0	5,282.5	5,297.8	5,265.1	19.2	19.6	111.32	144.4	236.6	343.1	305.2	37.91	9.049	
5,400.0	5,382.5	5,399.2	5,365.5	19.5	20.0	109.12	155.0	246.2	348.4	309.7	38.64	9.015	
5,500.0	5,482.5	5,499.7	5,465.0	19.9	20.4	107.08	165.3	255.0	353.6	314.2	39.36	8.983	
5,600.0	5,582.5	5,600.2	5,564.8	20.2	20.8	105.18	175.1	263.3	358.8	318.7	40.08	8.953	
5,700.0	5,682.5	5,701.2	5,665.0	20.6	21.2	103.51	184.1	270.9	364.0	323.2	40.79	8.922	
5,800.0	5,782.5	5,802.5	5,765.8	20.9	21.6	102.13	191.5	277.7	368.9	327.4	41.51	8.887	
5,900.0	5,882.5	5,901.7	5,864.6	21.3	22.0	100.93	198.2	284.1	373.9	331.7	42.21	8.857	
6,000.0	5,982.5	6,001.6	5,964.1	21.6	22.4	99.78	204.6	290.5	379.0	336.1	42.92	8.831	
6,100.0	6,082.5	6,102.2	6,064.3	22.0	22.7	98.75	210.6	296.6	384.1	340.4	43.63	8.803	
6,200.0	6,182.5	6,203.0	6,164.8	22.3	23.1	97.85	215.9	302.4	389.0	344.6	44.34	8.772	
6,300.0	6,282.5	6,303.8	6,265.3	22.7	23.5	97.03	220.8	307.8	393.7	348.6	45.05	8.738	
6,400.0	6,382.5	6,403.4	6,364.7	23.0	23.9	96.28	225.4	312.9	398.3	352.5	45.76	8.704	
6,500.0	6,482.5	6,501.6	6,462.6	23.4	24.2	95.50	230.4	318.3	403.2	356.8	46.45	8.680	
6,600.0	6,582.5	6,602.1	6,562.9	23.7	24.6	94.66	235.8	324.1	408.4	361.3	47.16	8.661	
6,700.0	6,682.5	6,704.6	6,665.1	24.1	25.0	93.87	241.1	329.3	413.2	365.3	47.88	8.630	
6,800.0	6,782.5	6,804.4	6,764.7	24.4	25.4	93.16	246.0	334.0	417.6	369.0	48.59	8.595	
6,900.0	6,882.5	6,903.2	6,863.2	24.8	25.7	92.53	250.3	338.8	422.3	373.0	49.29	8.567	
7,000.0	6,982.5	7,000.3	6,960.1	25.1	26.1	91.99	254.1	343.9	427.4	377.4	49.98	8.551	
7,100.0	7,082.5	7,096.8	7,056.4	25.5	26.4	91.53	257.4	349.7	433.2	382.6	50.66	8.551	
7,200.0	7,182.5	7,197.5	7,156.8	25.8	26.8	91.13	260.3	356.1	439.5	388.1	51.38	8.554	
7,300.0	7,282.5	7,299.1	7,258.3	26.2	27.2	90.79	262.8	362.1	445.3	393.2	52.09	8.549	
7,400.0	7,382.5	7,400.4	7,359.4	26.5	27.5	90.50	265.0	367.7	450.8	398.0	52.81	8.537	
7,500.0	7,482.5	7,501.8	7,460.6	26.9	27.9	90.25	267.0	373.0	456.0	402.5	53.53	8.520	
7,600.0	7,582.5	7,604.7	7,563.3	27.3	28.3	90.02	268.8	377.8	460.7	406.5	54.25	8.493	
7,700.0	7,682.5	7,707.5	7,666.1	27.6	28.7	89.82	270.4	382.0	464.8	409.8	54.97	8.456	
7,800.0	7,782.5	7,810.3	7,768.8	28.0	29.0	89.65	271.8	385.5	468.2	412.6	55.68	8.409	
7,900.0	7,882.5	7,912.9	7,871.4	28.3	29.4	89.52	272.9	388.4	471.1	414.7	56.39	8.353	
8,000.0	7,982.5	8,015.5	7,973.9	28.7	29.7	89.41	273.8	390.8	473.4	416.3	57.11	8.290	
8,100.0	8,082.5	8,117.0	8,075.4	29.0	30.1	89.32	274.6	392.6	475.2	417.4	57.81	8.220	
8,200.0	8,182.5	8,217.6	8,176.0	29.4	30.4	89.25	275.2	394.2	476.8	418.3	58.52	8.148	
8,300.0	8,282.5	8,318.7	8,277.1	29.7	30.8	89.20	275.6	395.7	478.3	419.1	59.22	8.076	
8,400.0	8,382.5	8,420.0	8,378.3	30.1	31.1	89.13	276.2	396.9	479.5	419.6	59.93	8.001	
8,500.0	8,482.5	8,521.2	8,479.5	30.4	31.5	89.05	276.9	397.9	480.5	419.8	60.64	7.924	
8,600.0	8,582.5	8,622.4	8,580.7	30.8	31.8	88.99	277.4	398.6	481.2	419.8	61.34	7.844	
8,700.0	8,682.5	8,722.2	8,680.6	31.1	32.2	88.95	277.8	399.1	481.7	419.7	62.05	7.764	
8,800.0	8,782.5	8,821.9	8,780.3	31.5	32.5	88.92	278.1	399.8	482.4	419.6	62.75	7.687	
8,900.0	8,882.5	8,923.2	8,881.5	31.9	32.8	88.92	278.1	400.3	482.9	419.5	63.45	7.611	
9,000.0	8,982.5	9,024.5	8,982.8	32.2	33.2	88.96	277.7	400.6	483.2	419.0	64.15	7.533	
9,100.0	9,082.5	9,125.3	9,083.6	32.6	33.5	89.02	277.2	400.7	483.3	418.4	64.83	7.454	
9,200.0	9,182.5	9,225.8	9,184.1	32.9	33.8	89.10	276.5	400.6	483.1	417.6	65.51	7.375	
9,300.0	9,282.5	9,325.3	9,283.6	33.3	34.1	89.21	275.6	400.5	483.1	416.9	66.20	7.297	
9,330.2	9,312.7	9,355.3	9,313.7	33.4	34.2	89.26	275.2	400.5	483.1	416.7	66.41	7.274	
9,400.0	9,382.5	9,424.1	9,382.4	33.6	34.4	89.37	274.3	400.6	483.1	416.2	66.89	7.223	
9,500.0	9,482.5	9,521.2	9,479.5	34.0	34.7	89.52	273.0	401.1	483.6	416.1	67.58	7.157	
9,600.0	9,582.5	9,619.6	9,577.9	34.3	35.1	89.67	271.7	402.2	484.7	416.4	68.27	7.100	
9,700.0	9,682.5	9,720.5	9,678.8	34.7	35.4	89.86	270.2	403.2	485.8	416.8	68.97	7.043	
9,800.0	9,782.5	9,821.3	9,779.6	35.1	35.7	90.08	268.3	404.1	486.6	417.0	69.66	6.986	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #215H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 235-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.0	9,882.5	9,922.2	9,880.5	35.4	36.1	90.35	266.0	404.8	487.4	417.0	70.36	6.927	
10,000.0	9,982.5	10,025.8	9,984.1	35.8	36.4	90.62	263.7	405.2	487.7	416.7	71.05	6.865	
10,003.5	9,986.0	10,029.6	9,987.8	35.8	36.4	90.62	263.7	405.2	487.7	416.7	71.07	6.862	
10,011.2	9,993.7	10,037.7	9,995.9	35.8	36.4	-100.67	263.6	405.2	487.7	416.6	71.12	6.857	
10,050.0	10,032.4	10,078.7	10,036.9	35.9	36.6	-100.84	263.2	405.0	487.9	416.5	71.38	6.835	
10,100.0	10,082.0	10,131.1	10,089.3	36.1	36.7	-101.52	263.2	404.5	488.6	416.9	71.68	6.817	
10,150.0	10,130.9	10,180.8	10,139.0	36.2	36.9	-102.60	263.5	403.7	490.1	418.1	71.96	6.811	
10,200.0	10,178.7	10,227.9	10,186.1	36.4	37.0	-103.94	263.8	403.1	492.9	420.7	72.23	6.824	
10,250.0	10,225.0	10,273.7	10,231.9	36.5	37.2	-105.47	264.0	402.5	497.4	424.9	72.48	6.862	
10,300.0	10,269.4	10,317.7	10,275.9	36.6	37.3	-107.08	264.1	402.0	503.9	431.2	72.72	6.930	
10,350.0	10,311.8	10,359.9	10,318.1	36.7	37.5	-108.68	264.1	401.5	512.8	439.9	72.94	7.030	
10,400.0	10,351.6	10,400.1	10,358.3	36.8	37.6	-110.15	264.1	401.1	524.4	451.3	73.15	7.169	
10,450.0	10,388.7	10,437.5	10,395.7	36.9	37.7	-111.37	264.0	400.7	539.1	465.7	73.35	7.349	
10,500.0	10,422.7	10,471.9	10,430.0	37.0	37.8	-112.21	263.9	400.3	557.0	483.4	73.53	7.574	
10,550.0	10,453.3	10,503.0	10,461.1	37.1	37.9	-112.57	263.8	400.0	578.2	504.5	73.71	7.845	
10,600.0	10,480.4	10,530.6	10,488.7	37.2	38.0	-112.33	263.7	399.6	602.9	529.1	73.87	8.163	
10,650.0	10,503.8	10,554.2	10,512.4	37.3	38.1	-111.37	263.6	399.4	630.9	556.9	74.01	8.525	
10,700.0	10,523.2	10,574.0	10,532.1	37.4	38.1	-109.58	263.5	399.2	662.0	587.9	74.14	8.930	
10,750.0	10,538.5	10,589.6	10,547.8	37.5	38.2	-106.82	263.4	399.0	695.9	621.7	74.24	9.374	
10,800.0	10,549.6	10,601.1	10,559.3	37.6	38.2	-102.96	263.4	398.8	732.3	658.0	74.33	9.852	
10,850.0	10,556.5	10,608.3	10,566.4	37.7	38.2	-97.90	263.4	398.8	770.7	696.3	74.40	10.359	
10,900.0	10,558.9	10,611.1	10,569.3	37.9	38.3	-91.62	263.3	398.7	810.6	736.2	74.44	10.889	
10,903.5	10,559.0	10,611.2	10,569.3	37.9	38.3	-91.13	263.3	398.7	813.5	739.0	74.45	10.927	
11,000.0	10,559.0	10,611.8	10,570.0	38.2	38.3	-91.16	263.3	398.7	892.9	818.3	74.51	11.982	
11,100.0	10,559.0	10,612.5	10,570.6	38.5	38.3	-91.17	263.3	398.7	976.6	902.1	74.59	13.094	
11,200.0	10,559.0	10,613.1	10,571.2	38.9	38.3	-91.17	263.3	398.7	1,061.5	986.8	74.66	14.217	
11,300.0	10,559.0	10,613.7	10,571.8	39.4	38.3	-91.16	263.3	398.7	1,147.1	1,072.4	74.74	15.348	
11,400.0	10,559.0	10,614.2	10,572.4	40.0	38.3	-91.14	263.3	398.7	1,233.2	1,158.4	74.82	16.484	
11,488.5	10,559.0	12,570.7	11,623.2	40.5	43.8	-149.43	-869.5	377.7	1,234.8	1,183.5	51.34	24.051	
11,500.0	10,559.0	12,577.9	11,623.1	40.5	43.9	-149.42	-876.8	377.9	1,234.8	1,183.4	51.42	24.014	
11,600.0	10,559.0	12,673.2	11,622.6	41.2	44.4	-149.30	-972.0	381.3	1,235.9	1,183.5	52.38	23.595	
11,700.0	10,559.0	12,753.3	11,621.8	41.9	45.0	-149.15	-1,052.0	385.3	1,237.1	1,183.8	53.36	23.186	
11,800.0	10,559.0	12,838.0	11,621.9	42.6	45.6	-148.94	-1,136.6	391.1	1,240.4	1,186.0	54.48	22.770	
11,900.0	10,559.0	12,966.9	11,621.2	43.4	46.6	-148.60	-1,265.1	400.4	1,243.4	1,187.4	56.02	22.195	
12,000.0	10,559.0	13,038.2	11,620.3	44.3	47.2	-148.41	-1,336.2	405.0	1,245.6	1,188.5	57.17	21.788	
12,100.0	10,559.0	13,120.9	11,622.2	45.2	47.9	-148.28	-1,418.8	410.0	1,250.3	1,191.9	58.40	21.410	
12,200.0	10,559.0	13,223.9	11,624.7	46.1	48.8	-148.13	-1,521.6	416.2	1,255.2	1,195.4	59.82	20.982	
12,300.0	10,559.0	13,324.3	11,627.5	47.1	49.7	-148.02	-1,621.8	421.5	1,259.9	1,198.6	61.25	20.570	
12,400.0	10,559.0	13,411.6	11,629.9	48.1	50.6	-147.91	-1,708.9	426.5	1,265.0	1,202.3	62.64	20.193	
12,500.0	10,559.0	13,573.2	11,633.4	49.1	52.2	-147.77	-1,870.2	433.5	1,269.0	1,204.4	64.65	19.628	
12,600.0	10,559.0	13,718.2	11,632.0	50.2	53.7	-147.76	-2,015.2	433.8	1,267.9	1,201.4	66.53	19.059	
12,700.0	10,559.0	13,788.1	11,631.2	51.3	54.4	-147.77	-2,085.1	433.6	1,266.4	1,198.6	67.76	18.688	
12,800.0	10,559.0	13,904.4	11,631.5	52.4	55.7	-147.83	-2,201.4	433.0	1,266.1	1,196.7	69.40	18.243	
12,900.0	10,559.0	14,029.2	11,629.3	53.6	57.1	-147.87	-2,326.2	431.3	1,263.5	1,192.3	71.18	17.750	
13,000.0	10,559.0	14,127.1	11,625.9	54.8	58.2	-147.87	-2,424.0	430.0	1,259.4	1,186.6	72.78	17.303	
13,100.0	10,559.0	14,194.0	11,624.9	56.0	59.0	-147.88	-2,490.9	429.5	1,257.4	1,183.3	74.10	16.969	
13,200.0	10,559.0	14,283.8	11,624.9	57.2	60.1	-147.91	-2,580.7	429.5	1,257.1	1,181.4	75.64	16.618	
13,245.3	10,559.0	14,331.2	11,625.0	57.8	60.6	-147.91	-2,628.1	429.8	1,257.0	1,180.6	76.43	16.447	
13,300.0	10,559.0	14,390.5	11,624.8	58.5	61.3	-147.91	-2,687.4	430.1	1,256.9	1,179.5	77.40	16.238	
13,400.0	10,559.0	14,499.0	11,623.6	59.8	62.7	-147.90	-2,795.9	430.3	1,255.6	1,176.4	79.23	15.849	
13,451.8	10,559.0	14,535.9	11,623.4	60.4	63.1	-147.91	-2,832.8	430.4	1,255.3	1,175.3	79.98	15.695	
13,500.0	10,559.0	14,573.0	11,623.7	61.0	63.6	-147.91	-2,869.9	430.6	1,255.6	1,174.9	80.70	15.559	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #215H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 235-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,600.0	10,559.0	14,708.6	11,623.9	62.4	65.3	-148.01	-3,005.5	429.1	1,254.6	1,171.9	82.71	15.168	
13,700.0	10,559.0	14,801.2	11,623.4	63.7	66.5	-148.09	-3,098.1	427.4	1,252.8	1,168.5	84.33	14.856	
13,800.0	10,559.0	14,894.8	11,623.4	65.0	67.7	-148.15	-3,191.6	426.5	1,252.0	1,166.0	86.00	14.559	
13,900.0	10,559.0	15,009.0	11,622.4	66.4	69.2	-148.19	-3,305.9	425.8	1,250.5	1,162.6	87.92	14.224	
14,000.0	10,559.0	15,102.0	11,620.9	67.7	70.4	-148.19	-3,398.9	425.4	1,248.6	1,158.9	89.68	13.923	
14,100.0	10,559.0	15,189.9	11,620.9	69.1	71.6	-148.24	-3,486.7	424.7	1,247.7	1,156.4	91.34	13.660	
14,200.0	10,559.0	15,286.3	11,621.8	70.5	72.9	-148.34	-3,583.1	423.4	1,247.5	1,154.5	93.03	13.409	
14,251.7	10,559.0	15,338.2	11,622.3	71.2	73.6	-148.39	-3,635.0	422.8	1,247.4	1,153.5	93.94	13.279	
14,300.0	10,559.0	15,369.9	11,622.8	71.9	74.1	-148.42	-3,666.7	422.5	1,247.7	1,153.1	94.62	13.186	
14,400.0	10,559.0	15,451.2	11,625.5	73.3	75.2	-148.51	-3,747.9	422.6	1,250.0	1,153.8	96.18	12.996	
14,500.0	10,559.0	15,559.2	11,627.8	74.8	76.7	-148.57	-3,855.9	423.0	1,251.6	1,153.5	98.08	12.761	
14,600.0	10,559.0	15,759.7	11,626.6	76.2	79.5	-148.65	-4,056.2	421.7	1,251.2	1,150.3	100.94	12.395	
14,700.0	10,559.0	15,857.2	11,620.7	77.6	80.9	-148.56	-4,153.6	421.2	1,245.4	1,142.4	102.97	12.095	
14,800.0	10,559.0	15,947.8	11,615.0	79.1	82.2	-148.45	-4,244.0	421.2	1,239.7	1,134.8	104.97	11.811	
14,900.0	10,559.0	16,022.9	11,611.4	80.5	83.2	-148.37	-4,319.0	421.4	1,235.5	1,128.7	106.78	11.571	
15,000.0	10,559.0	16,092.0	11,610.1	82.0	84.2	-148.33	-4,388.1	422.1	1,233.9	1,125.4	108.46	11.376	
15,100.0	10,559.0	16,202.7	11,607.8	83.5	85.8	-148.20	-4,498.7	424.8	1,233.1	1,122.3	110.74	11.134	
15,200.0	10,559.0	16,296.3	11,604.7	84.9	87.2	-148.00	-4,592.2	428.5	1,232.0	1,119.0	112.96	10.906	
15,300.0	10,559.0	16,392.0	11,601.1	86.4	88.6	-147.76	-4,687.7	433.1	1,231.0	1,115.7	115.29	10.678	
15,320.9	10,559.0	16,406.3	11,600.7	86.7	88.8	-147.72	-4,702.0	433.8	1,230.9	1,115.3	115.69	10.640	
15,400.0	10,559.0	16,460.2	11,599.8	87.9	89.6	-147.60	-4,755.8	436.7	1,231.8	1,114.6	117.17	10.513	
15,500.0	10,559.0	16,530.5	11,600.1	89.4	90.7	-147.46	-4,826.0	440.9	1,235.0	1,116.0	119.02	10.377	
15,600.0	10,559.0	16,618.0	11,601.9	90.9	92.0	-147.27	-4,913.2	447.5	1,240.3	1,119.2	121.19	10.235	
15,700.0	10,559.0	16,723.0	11,604.6	92.4	93.5	-147.11	-5,017.9	454.1	1,245.6	1,122.0	123.57	10.080	
15,800.0	10,559.0	16,908.0	11,605.2	93.9	96.3	-146.99	-5,202.8	459.0	1,246.6	1,119.7	126.89	9.824	
15,900.0	10,559.0	17,020.3	11,602.3	95.5	98.0	-146.92	-5,315.2	459.8	1,244.5	1,115.3	129.19	9.633	
16,000.0	10,559.0	17,112.3	11,599.2	97.0	99.4	-146.83	-5,407.1	460.7	1,241.9	1,110.5	131.33	9.456	
16,100.0	10,559.0	17,187.2	11,597.3	98.5	100.5	-146.74	-5,481.9	462.4	1,240.6	1,107.3	133.30	9.307	
16,103.6	10,559.0	17,189.7	11,597.3	98.6	100.5	-146.73	-5,484.4	462.5	1,240.6	1,107.3	133.37	9.302	
16,200.0	10,559.0	17,288.3	11,597.0	100.0	102.0	-146.67	-5,583.0	464.7	1,241.3	1,105.8	135.52	9.159	
16,300.0	10,559.0	17,468.3	11,589.6	101.6	104.7	-146.61	-5,762.7	462.4	1,235.9	1,097.4	138.43	8.928	
16,400.0	10,559.0	17,557.7	11,585.3	103.1	106.1	-146.60	-5,852.0	460.4	1,230.2	1,089.7	140.46	8.758	
16,500.0	10,559.0	17,674.0	11,578.3	104.6	107.8	-146.56	-5,968.0	457.9	1,223.5	1,080.8	142.75	8.571	
16,600.0	10,559.0	17,787.3	11,570.6	106.2	109.6	-146.51	-6,081.1	454.7	1,215.9	1,070.9	145.00	8.386	
16,700.0	10,559.0	17,907.1	11,560.6	107.7	111.4	-146.43	-6,200.4	451.0	1,206.9	1,059.5	147.33	8.191	
16,800.0	10,559.0	17,951.6	11,557.7	109.3	112.1	-146.41	-6,244.8	449.9	1,199.5	1,050.3	149.19	8.040	
16,900.0	10,559.0	18,010.2	11,556.2	110.8	113.0	-146.40	-6,303.4	449.4	1,196.2	1,045.2	150.95	7.925	
17,000.0	10,559.0	18,145.6	11,554.8	112.4	115.0	-146.52	-6,438.7	446.4	1,194.1	1,040.9	153.13	7.798	
17,100.0	10,559.0	18,215.9	11,552.9	113.9	116.1	-146.62	-6,508.9	443.1	1,189.3	1,034.5	154.78	7.684	
17,145.2	10,559.0	18,233.3	11,553.0	114.7	116.4	-146.65	-6,526.2	442.8	1,188.8	1,033.4	155.38	7.651	
17,200.0	10,559.0	18,278.0	11,554.7	115.5	117.0	-146.70	-6,570.9	442.8	1,190.2	1,033.9	156.30	7.615	
17,300.0	10,559.0	17,300.0	11,557.3	117.1	101.9	-146.76	-6,643.6	443.5	1,193.0	1,046.2	146.77	8.128	
17,400.0	10,559.0	18,542.6	11,553.4	118.6	121.1	-146.72	-6,835.4	443.5	1,189.6	1,028.4	161.18	7.381	
17,500.0	10,559.0	18,636.3	11,548.5	120.2	122.6	-146.59	-6,929.0	444.0	1,185.2	1,021.6	163.54	7.247	
17,600.0	10,559.0	18,730.7	11,543.6	121.8	124.1	-146.42	-7,023.2	445.7	1,181.4	1,015.4	166.01	7.116	
17,700.0	10,559.0	18,800.9	11,540.3	123.3	125.2	-146.26	-7,093.3	447.8	1,178.9	1,010.7	168.21	7.008	
17,733.5	10,559.0	18,822.1	11,539.7	123.9	125.5	-146.22	-7,114.5	448.6	1,178.7	1,009.8	168.88	6.979	
17,800.0	10,559.0	18,865.7	11,539.2	124.9	126.2	-146.15	-7,158.1	450.5	1,179.4	1,009.2	170.18	6.930	
17,900.0	10,559.0	18,941.0	11,540.6	126.5	127.4	-146.08	-7,233.2	453.6	1,182.7	1,010.6	172.12	6.871	
18,000.0	10,559.0	19,055.4	11,543.5	128.1	129.2	-146.05	-7,347.5	457.0	1,186.1	1,011.5	174.58	6.794	
18,100.0	10,559.0	19,131.7	11,545.6	129.7	130.4	-146.02	-7,423.8	459.7	1,190.0	1,013.5	176.41	6.745	
18,200.0	10,559.0	19,260.0	11,546.4	131.2	132.4	-145.92	-7,552.0	463.6	1,191.3	1,012.0	179.29	6.644	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #215H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 235-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,300.0	10,559.0	19,320.0	11,548.1	132.8	133.3	-145.86	-7,611.9	466.8	1,195.9	1,014.9	180.94	6.609	
18,400.0	10,559.0	19,625.1	11,546.5	134.4	138.1	-146.50	-7,915.3	451.8	1,190.6	1,007.3	183.33	6.494	
18,500.0	10,559.0	19,674.1	11,546.2	136.0	138.8	-146.80	-7,963.8	444.5	1,181.4	996.8	184.68	6.397	
18,600.0	10,559.0	19,736.9	11,546.4	137.6	139.8	-147.06	-8,026.3	438.8	1,176.3	990.3	185.96	6.325	
18,700.0	10,559.0	19,805.9	11,545.7	139.2	140.8	-147.14	-8,095.3	436.9	1,173.6	986.0	187.62	6.255	
18,734.2	10,559.0	19,825.9	11,545.5	139.7	141.1	-147.12	-8,115.3	437.2	1,173.4	985.2	188.22	6.234	
18,800.0	10,559.0	19,864.4	11,545.2	140.8	141.8	-147.06	-8,153.7	438.7	1,174.2	984.8	189.40	6.199	
18,900.0	10,559.0	20,053.4	11,533.1	142.4	144.8	-146.31	-8,341.8	450.6	1,171.1	976.7	194.45	6.023	
19,000.0	10,559.0	20,151.6	11,524.2	144.0	146.3	-145.89	-8,439.5	455.5	1,166.0	968.3	197.71	5.898	
19,100.0	10,559.0	20,225.1	11,519.7	145.6	147.5	-145.71	-8,512.8	457.4	1,162.0	961.8	200.18	5.805	
19,200.0	10,559.0	20,324.3	11,516.1	147.2	149.1	-145.54	-8,611.9	459.8	1,160.0	957.2	202.83	5.719	
19,300.0	10,559.0	20,434.9	11,514.4	148.7	150.8	-145.66	-8,722.5	456.5	1,156.6	951.8	204.79	5.648	
19,400.0	10,559.0	20,531.3	11,515.7	150.3	152.3	-146.02	-8,818.5	449.3	1,153.1	947.2	205.97	5.599	
19,500.0	10,559.0	20,615.5	11,517.1	151.9	153.6	-146.31	-8,902.5	443.8	1,150.5	943.3	207.21	5.552	
19,600.0	10,559.0	20,766.9	11,518.6	153.6	156.0	-147.01	-9,053.2	429.1	1,145.2	937.4	207.77	5.512	
19,700.0	10,559.0	20,825.0	11,520.9	155.2	156.9	-147.41	-9,110.7	421.5	1,140.8	932.3	208.53	5.471	
19,767.3	10,559.0	20,863.3	11,523.6	156.2	157.5	-147.70	-9,148.6	416.6	1,140.0	931.2	208.84	5.459	
19,800.0	10,559.0	20,882.6	11,525.2	156.8	157.8	-147.85	-9,167.7	414.3	1,140.2	931.3	208.93	5.457	
19,900.0	10,559.0	20,957.8	11,532.9	158.4	158.9	-148.40	-9,242.1	406.7	1,143.0	933.9	209.07	5.467	
20,000.0	10,559.0	21,074.9	11,541.3	160.0	160.8	-148.92	-9,358.7	400.4	1,146.0	936.0	209.96	5.458	
20,100.0	10,559.0	21,177.9	11,543.6	161.6	162.4	-149.02	-9,461.7	400.3	1,147.5	935.7	211.85	5.417	
20,200.0	10,559.0	21,299.5	11,543.6	163.2	164.4	-148.90	-9,583.3	403.7	1,148.7	934.0	214.61	5.352	
20,300.0	10,559.0	21,396.0	11,541.0	164.8	165.9	-148.74	-9,679.7	406.8	1,147.6	930.5	217.18	5.284	
20,322.0	10,559.0	21,418.0	11,540.4	165.1	166.3	-148.69	-9,701.6	407.5	1,147.5	929.7	217.77	5.269	
20,400.0	10,559.0	21,455.3	11,540.4	166.4	166.9	-148.64	-9,738.9	409.1	1,149.0	930.0	218.94	5.248	
20,500.0	10,559.0	21,517.3	11,543.1	168.0	167.9	-148.59	-9,800.8	412.3	1,154.8	934.4	220.38	5.240	
20,600.0	10,559.0	21,634.0	11,548.9	169.6	169.8	-148.52	-9,917.1	418.4	1,161.4	938.2	223.13	5.205	
20,700.0	10,559.0	21,751.7	11,551.3	171.2	171.7	-148.32	-10,034.6	425.4	1,165.8	939.5	226.25	5.152	
20,800.0	10,559.0	21,856.5	11,551.9	172.8	173.3	-148.07	-10,139.2	432.6	1,169.6	940.3	229.28	5.101	
20,900.0	10,559.0	21,967.1	11,552.1	174.5	175.1	-147.81	-10,249.6	439.6	1,172.7	940.3	232.43	5.046	
21,000.0	10,559.0	22,149.7	11,547.0	176.1	178.1	-147.46	-10,431.9	446.1	1,171.9	935.2	236.65	4.952	
21,100.0	10,559.0	22,254.0	11,541.2	177.7	179.8	-147.31	-10,536.1	446.9	1,167.3	927.9	239.32	4.877	
21,200.0	10,559.0	22,346.0	11,536.4	179.3	181.2	-147.22	-10,627.9	446.5	1,162.3	920.6	241.72	4.808	
21,300.0	10,559.0	22,399.3	11,534.8	180.9	182.1	-147.19	-10,681.1	446.7	1,159.9	916.3	243.59	4.762	
21,300.0	10,559.0	22,399.3	11,534.8	180.9	182.1	-147.19	-10,681.2	446.7	1,159.9	916.3	243.60	4.762	
21,400.0	10,559.0	21,400.0	11,535.2	182.5	166.1	-147.21	-10,792.3	447.2	1,160.2	926.4	233.79	4.962	
21,499.7	10,559.0	22,599.1	11,535.5	184.2	185.3	-147.40	-10,880.8	443.3	1,157.9	910.7	247.21	4.684	
21,500.0	10,559.0	22,599.3	11,535.5	184.2	185.3	-147.40	-10,881.0	443.3	1,157.9	910.7	247.22	4.684	
21,600.0	10,559.0	22,664.5	11,539.0	185.8	186.3	-147.61	-10,946.1	441.1	1,160.0	911.8	248.14	4.675	
21,700.0	10,559.0	22,748.8	11,544.2	187.4	187.7	-147.87	-11,030.1	438.5	1,163.2	914.1	249.09	4.670	
21,800.0	10,559.0	22,805.5	11,548.3	189.0	188.6	-147.98	-11,086.7	438.9	1,169.5	919.6	249.82	4.681	
21,900.0	10,559.0	22,956.1	11,554.9	190.6	191.0	-147.90	-11,236.9	446.1	1,175.3	921.8	253.48	4.636	
22,000.0	10,559.0	23,071.3	11,556.3	192.3	192.9	-147.72	-11,352.0	452.2	1,178.9	922.3	256.57	4.595	
22,100.0	10,559.0	23,225.3	11,551.6	193.9	195.4	-147.30	-11,505.6	460.3	1,178.5	917.6	260.90	4.517	
22,200.0	10,559.0	23,310.8	11,546.7	195.5	196.8	-146.96	-11,590.7	466.3	1,177.1	913.0	264.17	4.456	
22,300.0	10,559.0	23,401.9	11,542.0	197.1	198.3	-146.58	-11,681.5	473.1	1,176.5	908.9	267.60	4.397	
22,301.7	10,559.0	23,403.1	11,542.0	197.1	198.3	-146.58	-11,682.7	473.2	1,176.5	908.9	267.65	4.396	
22,400.0	10,559.0	23,470.4	11,539.9	198.7	199.4	-146.33	-11,749.7	478.4	1,177.8	907.6	270.24	4.358	
22,500.0	10,559.0	23,547.7	11,539.7	200.4	200.7	-146.11	-11,826.8	484.3	1,181.6	908.7	272.83	4.331	
22,600.0	10,559.0	23,685.2	11,540.7	202.0	202.9	-145.82	-11,964.1	493.0	1,185.5	908.7	276.80	4.283	
22,700.0	10,559.0	23,798.1	11,538.0	203.6	204.7	-145.53	-12,076.7	499.4	1,186.4	906.0	280.31	4.232	
22,800.0	10,559.0	23,885.3	11,535.0	205.2	206.2	-145.24	-12,163.7	505.0	1,186.9	903.4	283.43	4.187	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #215H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 235-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
22,900.0	10,559.0	23,954.2	11,533.6	206.9	207.3	-144.98	-12,232.3	511.3	1,189.9	903.8	286.11	4.159	SF
23,000.0	10,559.0	23,992.0	11,533.1	208.5	207.9	-144.83	-12,269.9	515.0	1,195.6	908.3	287.28	4.162	
23,028.2	10,559.0	23,992.0	11,533.1	208.9	207.9	-144.83	-12,269.9	515.0	1,198.5	911.6	286.94	4.177	
23,028.8	10,559.0	23,992.0	11,533.1	209.0	207.9	-144.83	-12,269.9	515.0	1,198.6	911.5	287.07	4.175	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #221H - 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	-90.33	-0.6	-110.1	110.1				
100.0	100.0	101.0	101.0	0.1	0.1	-90.33	-0.6	-110.1	110.1	109.8	0.26	423.556	
200.0	200.0	201.0	201.0	0.5	0.5	-90.33	-0.6	-110.1	110.1	109.1	0.98	112.689	
300.0	300.0	301.0	301.0	0.8	0.8	-90.33	-0.6	-110.1	110.1	108.4	1.69	64.990	
400.0	400.0	401.0	401.0	1.2	1.2	-90.33	-0.6	-110.1	110.1	107.7	2.41	45.662	
500.0	500.0	501.0	501.0	1.6	1.6	-90.33	-0.6	-110.1	110.1	107.0	3.13	35.195	
600.0	600.0	601.0	601.0	1.9	1.9	-90.33	-0.6	-110.1	110.1	106.2	3.84	28.632	
700.0	700.0	701.0	701.0	2.3	2.3	-90.33	-0.6	-110.1	110.1	105.5	4.56	24.132	
800.0	800.0	801.0	801.0	2.6	2.6	-90.33	-0.6	-110.1	110.1	104.8	5.28	20.854	
900.0	900.0	901.0	901.0	3.0	3.0	-90.33	-0.6	-110.1	110.1	104.1	6.00	18.360	
1,000.0	1,000.0	1,001.0	1,001.0	3.4	3.4	-90.33	-0.6	-110.1	110.1	103.4	6.71	16.399	
1,100.0	1,100.0	1,101.0	1,101.0	3.7	3.7	-90.33	-0.6	-110.1	110.1	102.6	7.43	14.817	
1,200.0	1,200.0	1,201.0	1,201.0	4.1	4.1	-90.33	-0.6	-110.1	110.1	101.9	8.15	13.513	
1,300.0	1,300.0	1,301.0	1,301.0	4.4	4.4	-90.33	-0.6	-110.1	110.1	101.2	8.86	12.420	
1,400.0	1,400.0	1,401.0	1,401.0	4.8	4.8	-90.33	-0.6	-110.1	110.1	100.5	9.58	11.490	
1,500.0	1,500.0	1,501.0	1,501.0	5.1	5.2	-90.33	-0.6	-110.1	110.1	99.8	10.30	10.690	CC
1,600.0	1,600.0	1,599.8	1,599.8	5.5	5.5	-73.35	0.0	-110.6	110.4	99.4	11.01	10.029	ES
1,700.0	1,700.0	1,698.6	1,698.6	5.9	5.9	-73.58	2.0	-112.3	111.3	99.6	11.71	9.500	
1,800.0	1,799.9	1,797.4	1,797.2	6.2	6.2	-73.97	5.3	-115.0	112.7	100.3	12.42	9.079	
1,900.0	1,899.7	1,896.1	1,895.8	6.6	6.6	-74.50	10.0	-118.7	114.8	101.7	13.12	8.749	
2,000.0	1,999.4	1,994.9	1,994.3	6.9	6.9	-75.16	15.9	-123.6	117.5	103.6	13.83	8.494	
2,100.0	2,098.9	2,093.6	2,092.5	7.3	7.3	-75.92	23.2	-129.5	120.7	106.2	14.54	8.305	
2,200.0	2,198.3	2,192.3	2,190.6	7.7	7.6	-76.77	31.7	-136.5	124.6	109.4	15.25	8.170	
2,300.0	2,297.4	2,309.2	2,288.3	8.0	8.1	-77.69	41.5	-144.6	129.1	113.1	16.04	8.049	
2,400.0	2,396.4	2,409.4	2,387.2	8.4	8.4	-78.59	52.3	-153.4	134.1	117.3	16.79	7.985	
2,500.0	2,495.5	2,509.5	2,486.0	8.8	8.8	-79.43	63.1	-162.2	139.1	121.5	17.55	7.925	
2,600.0	2,594.5	2,590.4	2,584.9	9.2	9.1	-80.22	73.8	-171.0	144.1	125.8	18.24	7.900	
2,700.0	2,693.5	2,709.8	2,683.8	9.6	9.6	-80.95	84.6	-179.8	149.1	130.0	19.08	7.815	
2,800.0	2,792.5	2,809.9	2,782.7	10.0	10.0	-81.63	95.3	-188.5	154.1	134.3	19.85	7.765	
2,900.0	2,891.6	2,889.9	2,881.6	10.3	10.3	-82.27	106.1	-197.3	159.2	138.7	20.55	7.748	
3,000.0	2,990.6	2,989.8	2,980.5	10.7	10.7	-82.87	116.9	-206.1	164.3	143.0	21.33	7.703	
3,100.0	3,089.6	3,089.6	3,079.4	11.1	11.1	-83.44	127.6	-214.9	169.4	147.3	22.11	7.661	
3,200.0	3,188.6	3,189.5	3,178.2	11.5	11.5	-83.97	138.4	-223.7	174.5	151.6	22.90	7.621	
3,300.0	3,287.7	3,289.3	3,277.1	11.9	11.9	-84.47	149.1	-232.5	179.6	156.0	23.69	7.584	
3,400.0	3,386.7	3,389.2	3,376.0	12.3	12.3	-84.94	159.9	-241.3	184.8	160.3	24.48	7.548	
3,500.0	3,485.7	3,489.1	3,474.9	12.7	12.7	-85.39	170.6	-250.1	190.0	164.7	25.28	7.515	
3,600.0	3,584.8	3,588.9	3,573.8	13.1	13.1	-85.81	181.4	-258.9	195.1	169.0	26.07	7.483	
3,653.6	3,637.9	3,642.5	3,626.8	13.3	13.3	-86.03	187.2	-263.6	197.9	171.4	26.50	7.467	
3,700.0	3,683.8	3,688.8	3,672.7	13.5	13.5	-86.17	192.2	-267.7	200.3	173.4	26.87	7.454	
3,800.0	3,783.2	3,788.6	3,771.5	13.9	13.9	-85.93	202.9	-276.5	205.7	178.0	27.66	7.437	
3,900.0	3,882.8	3,888.4	3,870.3	14.3	14.3	-85.01	213.7	-285.3	211.2	182.8	28.42	7.433	
4,000.0	3,982.6	3,988.0	3,969.0	14.7	14.7	-83.45	224.4	-294.1	217.2	188.0	29.16	7.447	
4,100.0	4,082.5	4,087.4	4,067.5	15.0	15.1	-81.33	235.1	-302.9	223.6	193.8	29.88	7.484	
4,187.0	4,169.5	4,175.0	4,154.2	15.3	15.5	-96.15	244.4	-310.4	229.8	199.3	30.50	7.535	
4,200.0	4,182.5	4,188.4	4,167.5	15.4	15.5	-95.80	245.7	-311.5	230.7	200.1	30.60	7.541	
4,300.0	4,282.5	4,291.4	4,269.8	15.7	15.9	-93.47	254.6	-318.8	237.1	205.8	31.31	7.572	
4,400.0	4,382.5	4,394.9	4,373.0	16.1	16.3	-91.79	261.4	-324.4	242.2	210.2	32.03	7.562	
4,500.0	4,482.5	4,498.8	4,476.7	16.4	16.7	-90.68	266.1	-328.2	245.8	213.0	32.73	7.508	
4,600.0	4,582.5	4,603.0	4,580.9	16.7	17.1	-90.10	268.5	-330.2	247.7	214.2	33.43	7.409	
4,700.0	4,682.5	4,705.7	4,683.5	17.1	17.4	-90.00	268.9	-330.5	248.0	213.9	34.12	7.269	
4,800.0	4,782.5	4,805.7	4,783.5	17.4	17.8	-90.00	268.9	-330.5	248.0	213.2	34.81	7.125	
4,900.0	4,882.5	4,905.7	4,883.5	17.8	18.1	-90.00	268.9	-330.5	248.0	212.5	35.50	6.987	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #221H - 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
5,000.0	4,982.5	5,005.7	4,983.5	18.1	18.4	-90.00	268.9	-330.5	248.0	211.8	36.19	6.853	
5,100.0	5,082.5	5,105.7	5,083.5	18.5	18.8	-90.00	268.9	-330.5	248.0	211.1	36.88	6.724	
5,200.0	5,182.5	5,205.7	5,183.5	18.8	19.1	-90.00	268.9	-330.5	248.0	210.4	37.58	6.600	
5,300.0	5,282.5	5,305.7	5,283.5	19.2	19.5	-90.00	268.9	-330.5	248.0	209.7	38.27	6.480	
5,400.0	5,382.5	5,405.7	5,383.5	19.5	19.8	-90.00	268.9	-330.5	248.0	209.0	38.97	6.365	
5,500.0	5,482.5	5,505.7	5,483.5	19.9	20.1	-90.00	268.9	-330.5	248.0	208.3	39.66	6.253	
5,600.0	5,582.5	5,605.7	5,583.5	20.2	20.5	-90.00	268.9	-330.5	248.0	207.6	40.36	6.145	
5,700.0	5,682.5	5,705.7	5,683.5	20.6	20.8	-90.00	268.9	-330.5	248.0	206.9	41.06	6.041	
5,800.0	5,782.5	5,805.7	5,783.5	20.9	21.2	-90.00	268.9	-330.5	248.0	206.3	41.75	5.940	
5,900.0	5,882.5	5,905.7	5,883.5	21.3	21.5	-90.00	268.9	-330.5	248.0	205.6	42.45	5.842	
6,000.0	5,982.5	6,005.7	5,983.5	21.6	21.9	-90.00	268.9	-330.5	248.0	204.9	43.15	5.747	
6,100.0	6,082.5	6,105.7	6,083.5	22.0	22.2	-90.00	268.9	-330.5	248.0	204.2	43.85	5.656	
6,200.0	6,182.5	6,205.7	6,183.5	22.3	22.6	-90.00	268.9	-330.5	248.0	203.5	44.55	5.567	
6,300.0	6,282.5	6,305.7	6,283.5	22.7	22.9	-90.00	268.9	-330.5	248.0	202.8	45.25	5.480	
6,400.0	6,382.5	6,405.7	6,383.5	23.0	23.3	-90.00	268.9	-330.5	248.0	202.1	45.95	5.397	
6,500.0	6,482.5	6,505.7	6,483.5	23.4	23.6	-90.00	268.9	-330.5	248.0	201.3	46.66	5.316	
6,600.0	6,582.5	6,605.7	6,583.5	23.7	23.9	-90.00	268.9	-330.5	248.0	200.6	47.36	5.237	
6,700.0	6,682.5	6,705.7	6,683.5	24.1	24.3	-90.00	268.9	-330.5	248.0	199.9	48.06	5.160	
6,800.0	6,782.5	6,805.7	6,783.5	24.4	24.6	-90.00	268.9	-330.5	248.0	199.2	48.76	5.086	
6,900.0	6,882.5	6,905.7	6,883.5	24.8	25.0	-90.00	268.9	-330.5	248.0	198.5	49.47	5.013	
7,000.0	6,982.5	7,005.7	6,983.5	25.1	25.3	-90.00	268.9	-330.5	248.0	197.8	50.17	4.943	
7,100.0	7,082.5	7,105.7	7,083.5	25.5	25.7	-90.00	268.9	-330.5	248.0	197.1	50.88	4.875	
7,200.0	7,182.5	7,205.7	7,183.5	25.8	26.0	-90.00	268.9	-330.5	248.0	196.4	51.58	4.808	
7,300.0	7,282.5	7,305.7	7,283.5	26.2	26.4	-90.00	268.9	-330.5	248.0	195.7	52.29	4.743	
7,400.0	7,382.5	7,405.7	7,383.5	26.5	26.7	-90.00	268.9	-330.5	248.0	195.0	52.99	4.680	
7,500.0	7,482.5	7,505.7	7,483.5	26.9	27.1	-90.00	268.9	-330.5	248.0	194.3	53.70	4.619	
7,600.0	7,582.5	7,605.7	7,583.5	27.3	27.4	-90.00	268.9	-330.5	248.0	193.6	54.40	4.559	
7,700.0	7,682.5	7,705.7	7,683.5	27.6	27.8	-90.00	268.9	-330.5	248.0	192.9	55.11	4.500	
7,800.0	7,782.5	7,805.7	7,783.5	28.0	28.1	-90.00	268.9	-330.5	248.0	192.2	55.82	4.443	
7,900.0	7,882.5	7,905.7	7,883.5	28.3	28.5	-90.00	268.9	-330.5	248.0	191.5	56.52	4.388	
8,000.0	7,982.5	8,005.7	7,983.5	28.7	28.8	-90.00	268.9	-330.5	248.0	190.8	57.23	4.333	
8,100.0	8,082.5	8,105.7	8,083.5	29.0	29.2	-90.00	268.9	-330.5	248.0	190.1	57.94	4.281	
8,200.0	8,182.5	8,205.7	8,183.5	29.4	29.5	-90.00	268.9	-330.5	248.0	189.4	58.65	4.229	
8,300.0	8,282.5	8,305.7	8,283.5	29.7	29.9	-90.00	268.9	-330.5	248.0	188.7	59.35	4.178	
8,400.0	8,382.5	8,405.7	8,383.5	30.1	30.2	-90.00	268.9	-330.5	248.0	187.9	60.06	4.129	
8,500.0	8,482.5	8,505.7	8,483.5	30.4	30.6	-90.00	268.9	-330.5	248.0	187.2	60.77	4.081	
8,600.0	8,582.5	8,605.7	8,583.5	30.8	31.0	-90.00	268.9	-330.5	248.0	186.5	61.48	4.034	
8,700.0	8,682.5	8,705.7	8,683.5	31.1	31.3	-90.00	268.9	-330.5	248.0	185.8	62.19	3.988	
8,800.0	8,782.5	8,805.7	8,783.5	31.5	31.7	-90.00	268.9	-330.5	248.0	185.1	62.89	3.943	
8,900.0	8,882.5	8,905.7	8,883.5	31.9	32.0	-90.00	268.9	-330.5	248.0	184.4	63.60	3.899	
9,000.0	8,982.5	9,005.7	8,983.5	32.2	32.4	-90.00	268.9	-330.5	248.0	183.7	64.31	3.856	
9,100.0	9,082.5	9,105.7	9,083.5	32.6	32.7	-90.00	268.9	-330.5	248.0	183.0	65.02	3.814	
9,200.0	9,182.5	9,205.7	9,183.5	32.9	33.1	-90.00	268.9	-330.5	248.0	182.3	65.73	3.773	
9,300.0	9,282.5	9,305.7	9,283.5	33.3	33.4	-90.00	268.9	-330.5	248.0	181.6	66.44	3.733	
9,400.0	9,382.5	9,405.7	9,383.5	33.6	33.8	-90.00	268.9	-330.5	248.0	180.9	67.15	3.693	
9,500.0	9,482.5	9,505.7	9,483.5	34.0	34.1	-90.00	268.9	-330.5	248.0	180.1	67.86	3.655	
9,600.0	9,582.5	9,605.7	9,583.5	34.3	34.5	-90.00	268.9	-330.5	248.0	179.4	68.57	3.617	
9,700.0	9,682.5	9,705.7	9,683.5	34.7	34.8	-90.00	268.9	-330.5	248.0	178.7	69.28	3.580	
9,800.0	9,782.5	9,805.7	9,783.5	35.1	35.2	-90.00	268.9	-330.5	248.0	178.0	69.99	3.543	
9,900.0	9,882.5	9,905.7	9,883.5	35.4	35.5	-90.00	268.9	-330.5	248.0	177.3	70.70	3.508	
10,000.0	9,982.5	10,005.7	9,983.5	35.8	35.9	-90.00	268.9	-330.5	248.0	176.6	71.41	3.473	
10,003.5	9,986.0	10,009.2	9,987.0	35.8	35.9	-90.00	268.9	-330.5	248.0	176.6	71.44	3.472	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #221H - 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	10,032.4	10,055.6	10,033.4	35.9	36.1	79.16	268.9	-330.5	247.6	175.9	71.75	3.451	
10,100.0	10,082.0	10,105.2	10,083.0	36.1	36.2	80.68	268.9	-330.5	246.5	174.5	72.06	3.421	
10,150.0	10,130.9	10,154.1	10,131.9	36.2	36.4	83.20	268.9	-330.5	245.0	172.7	72.35	3.387	
10,200.0	10,178.7	10,201.8	10,179.7	36.4	36.6	86.62	268.9	-330.5	243.7	171.0	72.62	3.355	
10,241.2	10,217.0	10,240.1	10,218.0	36.5	36.7	90.00	268.9	-330.5	243.2	170.4	72.83	3.339	
10,250.0	10,225.0	10,248.1	10,226.0	36.5	36.8	90.77	268.9	-330.5	243.2	170.4	72.87	3.338	SF
10,300.0	10,269.4	10,307.4	10,270.4	36.6	37.0	95.39	268.9	-330.5	244.6	171.5	73.15	3.344	
10,350.0	10,311.8	10,334.9	10,312.8	36.7	37.1	100.17	268.9	-330.5	248.9	175.6	73.32	3.395	
10,400.0	10,351.6	10,374.8	10,352.6	36.8	37.2	104.76	268.9	-330.5	257.0	183.5	73.54	3.495	
10,450.0	10,388.7	10,411.8	10,389.7	36.9	37.3	108.85	268.9	-330.5	269.8	196.0	73.75	3.658	
10,500.0	10,422.7	10,445.8	10,423.7	37.0	37.5	112.21	268.9	-330.5	287.5	213.6	73.97	3.887	
10,550.0	10,453.3	10,476.5	10,454.3	37.1	37.6	114.65	268.9	-330.5	310.4	236.2	74.17	4.185	
10,600.0	10,480.4	10,503.6	10,481.4	37.2	37.7	116.01	268.9	-330.5	338.1	263.7	74.36	4.546	
10,650.0	10,503.8	10,527.0	10,504.8	37.3	37.7	116.16	268.9	-330.5	370.1	295.6	74.54	4.966	
10,700.0	10,523.2	10,546.4	10,524.2	37.4	37.8	114.93	268.9	-330.5	406.0	331.3	74.68	5.436	
10,750.0	10,538.5	10,561.7	10,539.5	37.5	37.9	112.08	268.9	-330.5	445.0	370.2	74.80	5.949	
10,800.0	10,549.6	10,572.8	10,550.6	37.6	37.9	107.29	268.9	-330.5	486.5	411.7	74.89	6.497	
10,850.0	10,556.5	10,579.6	10,557.5	37.7	37.9	100.23	268.9	-330.5	530.0	455.1	74.96	7.071	
10,900.0	10,558.9	10,582.1	10,559.9	37.9	37.9	90.75	268.9	-330.5	574.8	499.8	75.00	7.664	
10,903.5	10,559.0	10,582.1	10,560.0	37.9	37.9	90.00	268.9	-330.5	578.0	503.0	75.00	7.706	
11,000.0	10,559.0	10,582.1	10,560.0	38.2	37.9	90.00	268.9	-330.5	667.4	592.3	75.05	8.892	
11,100.0	10,559.0	10,582.1	10,560.0	38.5	37.9	90.00	268.9	-330.5	762.8	687.7	75.09	10.158	
11,200.0	10,559.0	10,582.1	10,560.0	38.9	37.9	90.00	268.9	-330.5	860.1	785.0	75.13	11.449	
11,300.0	10,559.0	10,582.1	10,560.0	39.4	37.9	90.00	268.9	-330.5	958.6	883.4	75.15	12.755	
11,400.0	10,559.0	10,582.1	10,560.0	40.0	37.9	90.00	268.9	-330.5	1,057.8	982.6	75.17	14.072	
11,488.5	10,559.0	10,582.1	10,560.0	40.5	37.9	90.00	268.9	-330.5	1,146.0	1,070.8	75.19	15.242	
11,500.0	10,559.0	10,582.1	10,560.0	40.5	37.9	90.00	268.9	-330.5	1,157.5	1,082.3	75.19	15.394	
11,600.0	10,559.0	10,582.1	10,560.0	41.2	37.9	90.00	268.9	-330.5	1,257.3	1,182.1	75.20	16.718	
11,700.0	10,559.0	10,582.1	10,560.0	41.9	37.9	90.00	268.9	-330.5	1,357.1	1,281.9	75.22	18.042	
11,800.0	10,559.0	10,582.1	10,560.0	42.6	37.9	90.00	268.9	-330.5	1,457.0	1,381.8	75.24	19.365	
11,900.0	10,559.0	10,582.1	10,560.0	43.4	37.9	90.00	268.9	-330.5	1,556.9	1,481.6	75.26	20.688	
12,000.0	10,559.0	10,582.1	10,560.0	44.3	37.9	90.00	268.9	-330.5	1,656.8	1,581.5	75.27	22.010	
12,100.0	10,559.0	10,582.1	10,560.0	45.2	37.9	90.00	268.9	-330.5	1,756.7	1,681.4	75.29	23.331	
12,200.0	10,559.0	10,582.1	10,560.0	46.1	37.9	90.01	268.9	-330.5	1,856.6	1,781.3	75.31	24.652	
12,300.0	10,559.0	14,240.9	12,506.0	47.1	52.7	-179.99	-1,685.7	-244.3	1,946.0	1,900.3	45.73	42.557	
12,400.0	10,559.0	14,340.9	12,506.0	48.1	53.7	-179.99	-1,785.7	-243.6	1,946.0	1,899.2	46.77	41.612	
12,500.0	10,559.0	14,440.9	12,506.0	49.1	54.6	-179.99	-1,885.7	-242.9	1,946.0	1,898.2	47.83	40.683	
12,600.0	10,559.0	14,540.9	12,506.0	50.2	55.6	-179.99	-1,985.7	-242.2	1,946.0	1,897.1	48.93	39.774	
12,700.0	10,559.0	14,640.9	12,506.0	51.3	56.6	-179.99	-2,085.7	-241.5	1,946.0	1,896.0	50.05	38.885	
12,800.0	10,559.0	14,740.9	12,506.0	52.4	57.6	-179.99	-2,185.7	-240.8	1,946.0	1,894.8	51.19	38.017	
12,900.0	10,559.0	14,840.9	12,506.0	53.6	58.7	-179.99	-2,285.7	-240.1	1,946.0	1,893.6	52.35	37.172	
13,000.0	10,559.0	14,940.9	12,506.0	54.8	59.8	-179.99	-2,385.7	-239.4	1,946.0	1,892.5	53.54	36.350	
13,100.0	10,559.0	15,040.9	12,506.0	56.0	60.9	-179.99	-2,485.7	-238.7	1,946.0	1,891.3	54.74	35.551	
13,200.0	10,559.0	15,140.9	12,506.0	57.2	62.1	-179.99	-2,585.7	-238.0	1,946.0	1,890.0	55.96	34.775	
13,300.0	10,559.0	15,240.9	12,506.0	58.5	63.2	-179.99	-2,685.7	-237.3	1,946.0	1,888.8	57.20	34.022	
13,400.0	10,559.0	15,340.9	12,506.0	59.8	64.4	-179.99	-2,785.7	-236.6	1,946.0	1,887.5	58.45	33.292	
13,500.0	10,559.0	15,440.9	12,506.0	61.0	65.6	-179.99	-2,885.7	-235.9	1,946.0	1,886.3	59.72	32.585	
13,600.0	10,559.0	15,540.9	12,506.0	62.4	66.9	-179.99	-2,985.7	-235.2	1,946.0	1,885.0	61.00	31.901	
13,700.0	10,559.0	15,640.9	12,506.0	63.7	68.1	-179.99	-3,085.7	-234.5	1,946.0	1,883.7	62.30	31.237	
13,800.0	10,559.0	15,740.9	12,506.0	65.0	69.4	-179.99	-3,185.7	-233.9	1,946.0	1,882.4	63.60	30.596	
13,900.0	10,559.0	15,840.9	12,506.0	66.4	70.7	-179.99	-3,285.7	-233.2	1,946.0	1,881.1	64.92	29.974	
14,000.0	10,559.0	15,940.9	12,506.0	67.7	72.0	-179.99	-3,385.7	-232.5	1,946.0	1,879.7	66.25	29.373	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #221H - 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	10,559.0	16,040.9	12,506.0	69.1	73.3	-179.99	-3,485.7	-231.8	1,946.0	1,878.4	67.59	28.791	
14,200.0	10,559.0	16,140.9	12,506.0	70.5	74.6	-179.99	-3,585.7	-231.1	1,946.0	1,877.1	68.94	28.227	
14,300.0	10,559.0	16,240.9	12,506.0	71.9	75.9	-179.99	-3,685.7	-230.4	1,946.0	1,875.7	70.30	27.682	
14,400.0	10,559.0	16,340.9	12,506.0	73.3	77.3	-179.99	-3,785.7	-229.7	1,946.0	1,874.3	71.67	27.154	
14,500.0	10,559.0	16,440.9	12,506.0	74.8	78.6	-179.99	-3,885.7	-229.0	1,946.0	1,873.0	73.04	26.643	
14,600.0	10,559.0	16,540.9	12,506.0	76.2	80.0	-179.99	-3,985.7	-228.3	1,946.0	1,871.6	74.42	26.148	
14,700.0	10,559.0	16,640.9	12,506.0	77.6	81.4	-179.99	-4,085.7	-227.6	1,946.0	1,870.2	75.81	25.669	
14,800.0	10,559.0	16,740.9	12,506.0	79.1	82.8	-179.99	-4,185.7	-226.9	1,946.0	1,868.8	77.21	25.205	
14,900.0	10,559.0	16,840.9	12,506.0	80.5	84.2	-179.99	-4,285.6	-226.2	1,946.0	1,867.4	78.61	24.755	
15,000.0	10,559.0	16,940.9	12,506.0	82.0	85.6	-179.99	-4,385.6	-225.5	1,946.0	1,866.0	80.02	24.319	
15,100.0	10,559.0	17,040.9	12,506.0	83.5	87.0	-179.99	-4,485.6	-224.8	1,946.0	1,864.6	81.43	23.897	
15,200.0	10,559.0	17,140.9	12,506.0	84.9	88.4	-179.99	-4,585.6	-224.1	1,946.0	1,863.1	82.85	23.487	
15,300.0	10,559.0	17,240.9	12,506.0	86.4	89.8	-179.99	-4,685.6	-223.4	1,946.0	1,861.7	84.28	23.090	
15,400.0	10,559.0	17,340.9	12,506.0	87.9	91.3	-179.99	-4,785.6	-222.7	1,946.0	1,860.3	85.71	22.704	
15,500.0	10,559.0	17,440.9	12,506.0	89.4	92.7	-179.99	-4,885.6	-222.0	1,946.0	1,858.9	87.15	22.331	
15,600.0	10,559.0	17,540.9	12,506.0	90.9	94.2	-179.99	-4,985.6	-221.3	1,946.0	1,857.4	88.58	21.968	
15,700.0	10,559.0	17,640.9	12,506.0	92.4	95.7	-179.99	-5,085.6	-220.6	1,946.0	1,856.0	90.03	21.615	
15,800.0	10,559.0	17,740.9	12,506.0	93.9	97.1	-179.99	-5,185.6	-219.9	1,946.0	1,854.5	91.48	21.273	
15,900.0	10,559.0	17,840.9	12,506.0	95.5	98.6	-179.99	-5,285.6	-219.2	1,946.0	1,853.1	92.93	20.941	
16,000.0	10,559.0	17,940.9	12,506.0	97.0	100.1	-179.99	-5,385.6	-218.5	1,946.0	1,851.6	94.38	20.618	
16,100.0	10,559.0	18,040.9	12,506.0	98.5	101.6	-179.99	-5,485.6	-217.8	1,946.0	1,850.2	95.84	20.304	
16,200.0	10,559.0	18,140.9	12,506.0	100.0	103.0	-179.99	-5,585.6	-217.1	1,946.0	1,848.7	97.31	19.999	
16,300.0	10,559.0	18,240.9	12,506.0	101.6	104.5	-179.99	-5,685.6	-216.4	1,946.0	1,847.2	98.77	19.702	
16,400.0	10,559.0	18,340.9	12,506.0	103.1	106.0	-179.99	-5,785.6	-215.7	1,946.0	1,845.8	100.24	19.413	
16,500.0	10,559.0	18,440.9	12,506.0	104.6	107.5	-179.99	-5,885.6	-215.0	1,946.0	1,844.3	101.71	19.132	
16,600.0	10,559.0	18,540.9	12,506.0	106.2	109.0	-179.99	-5,985.6	-214.3	1,946.0	1,842.8	103.19	18.859	
16,700.0	10,559.0	18,640.9	12,506.0	107.7	110.6	-179.99	-6,085.6	-213.6	1,946.0	1,841.3	104.67	18.593	
16,800.0	10,559.0	18,740.9	12,506.0	109.3	112.1	-179.99	-6,185.6	-212.9	1,946.0	1,839.9	106.15	18.333	
16,900.0	10,559.0	18,840.9	12,506.0	110.8	113.6	-179.99	-6,285.6	-212.2	1,946.0	1,838.4	107.63	18.081	
17,000.0	10,559.0	18,940.9	12,506.0	112.4	115.1	-179.99	-6,385.6	-211.5	1,946.0	1,836.9	109.11	17.835	
17,100.0	10,559.0	19,040.9	12,506.0	113.9	116.6	-179.99	-6,485.6	-210.8	1,946.0	1,835.4	110.60	17.595	
17,200.0	10,559.0	19,140.9	12,506.0	115.5	118.2	-179.99	-6,585.6	-210.2	1,946.0	1,833.9	112.09	17.361	
17,300.0	10,559.0	19,240.9	12,506.0	117.1	119.7	-179.99	-6,685.6	-209.5	1,946.0	1,832.4	113.58	17.133	
17,400.0	10,559.0	19,340.9	12,506.0	118.6	121.2	-179.99	-6,785.6	-208.8	1,946.0	1,830.9	115.08	16.911	
17,500.0	10,559.0	19,440.9	12,506.0	120.2	122.8	-179.99	-6,885.6	-208.1	1,946.0	1,829.4	116.57	16.694	
17,600.0	10,559.0	19,540.9	12,506.0	121.8	124.3	-179.99	-6,985.6	-207.4	1,946.0	1,827.9	118.07	16.482	
17,700.0	10,559.0	19,640.9	12,506.0	123.3	125.9	-179.99	-7,085.6	-206.7	1,946.0	1,826.4	119.57	16.275	
17,800.0	10,559.0	19,740.9	12,506.0	124.9	127.4	-179.99	-7,185.6	-206.0	1,946.0	1,824.9	121.07	16.073	
17,900.0	10,559.0	19,840.9	12,506.0	126.5	129.0	-179.99	-7,285.6	-205.3	1,946.0	1,823.4	122.57	15.876	
18,000.0	10,559.0	19,940.9	12,506.0	128.1	130.5	-179.99	-7,385.6	-204.6	1,946.0	1,821.9	124.08	15.684	
18,100.0	10,559.0	20,040.9	12,506.0	129.7	132.1	-179.99	-7,485.6	-203.9	1,946.0	1,820.4	125.58	15.496	
18,200.0	10,559.0	20,140.9	12,506.0	131.2	133.6	-179.99	-7,585.6	-203.2	1,946.0	1,818.9	127.09	15.312	
18,300.0	10,559.0	20,240.9	12,506.0	132.8	135.2	-179.99	-7,685.6	-202.5	1,946.0	1,817.4	128.60	15.132	
18,400.0	10,559.0	20,340.9	12,506.0	134.4	136.8	-179.99	-7,785.6	-201.8	1,946.0	1,815.9	130.11	14.956	
18,500.0	10,559.0	20,440.9	12,506.0	136.0	138.3	-179.99	-7,885.6	-201.1	1,946.0	1,814.4	131.62	14.785	
18,600.0	10,559.0	20,540.9	12,506.0	137.6	139.9	-179.99	-7,985.6	-200.4	1,946.0	1,812.9	133.14	14.617	
18,700.0	10,559.0	20,640.9	12,506.0	139.2	141.5	-179.99	-8,085.6	-199.7	1,946.0	1,811.3	134.65	14.452	
18,800.0	10,559.0	20,740.9	12,506.0	140.8	143.0	-179.99	-8,185.6	-199.0	1,946.0	1,809.8	136.17	14.291	
18,900.0	10,559.0	20,840.9	12,506.0	142.4	144.6	-179.99	-8,285.6	-198.3	1,946.0	1,808.3	137.68	14.134	
19,000.0	10,559.0	20,940.9	12,506.0	144.0	146.2	-179.99	-8,385.5	-197.6	1,946.0	1,806.8	139.20	13.980	
19,100.0	10,559.0	21,040.9	12,506.0	145.6	147.7	-179.99	-8,485.5	-196.9	1,946.0	1,805.3	140.72	13.829	
19,200.0	10,559.0	21,140.9	12,506.0	147.2	149.3	-179.99	-8,585.5	-196.2	1,946.0	1,803.8	142.24	13.681	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #221H - 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	10,559.0	21,240.9	12,506.0	148.7	150.9	-179.99	-8,685.5	-195.5	1,946.0	1,802.2	143.76	13.536	
19,400.0	10,559.0	21,340.9	12,506.0	150.3	152.5	-179.99	-8,785.5	-194.8	1,946.0	1,800.7	145.29	13.394	
19,500.0	10,559.0	21,440.9	12,506.0	151.9	154.1	-179.99	-8,885.5	-194.1	1,946.0	1,799.2	146.81	13.255	
19,600.0	10,559.0	21,540.9	12,506.0	153.6	155.6	-179.99	-8,985.5	-193.4	1,946.0	1,797.7	148.33	13.119	
19,700.0	10,559.0	21,640.9	12,506.0	155.2	157.2	-179.99	-9,085.5	-192.7	1,946.0	1,796.1	149.86	12.986	
19,800.0	10,559.0	21,740.9	12,506.0	156.8	158.8	-179.99	-9,185.5	-192.0	1,946.0	1,794.6	151.39	12.855	
19,900.0	10,559.0	21,840.9	12,506.0	158.4	160.4	-179.99	-9,285.5	-191.3	1,946.0	1,793.1	152.91	12.726	
20,000.0	10,559.0	21,940.9	12,506.0	160.0	162.0	-179.99	-9,385.5	-190.6	1,946.0	1,791.6	154.44	12.600	
20,100.0	10,559.0	22,040.9	12,506.0	161.6	163.6	-179.99	-9,485.5	-189.9	1,946.0	1,790.0	155.97	12.477	
20,200.0	10,559.0	22,140.9	12,506.0	163.2	165.2	-179.99	-9,585.5	-189.2	1,946.0	1,788.5	157.50	12.356	
20,300.0	10,559.0	22,240.9	12,506.0	164.8	166.8	-179.99	-9,685.5	-188.5	1,946.0	1,787.0	159.03	12.237	
20,400.0	10,559.0	22,340.9	12,506.0	166.4	168.4	-179.99	-9,785.5	-187.8	1,946.0	1,785.4	160.56	12.120	
20,500.0	10,559.0	22,440.9	12,506.0	168.0	170.0	-179.99	-9,885.5	-187.1	1,946.0	1,783.9	162.09	12.006	
20,600.0	10,559.0	22,540.9	12,506.0	169.6	171.5	-179.99	-9,985.5	-186.4	1,946.0	1,782.4	163.62	11.893	
20,700.0	10,559.0	22,640.9	12,506.0	171.2	173.1	-179.99	-10,085.5	-185.8	1,946.0	1,780.8	165.16	11.783	
20,800.0	10,559.0	22,740.9	12,506.0	172.8	174.7	-179.99	-10,185.5	-185.1	1,946.0	1,779.3	166.69	11.674	
20,900.0	10,559.0	22,840.9	12,506.0	174.5	176.3	-179.99	-10,285.5	-184.4	1,946.0	1,777.8	168.23	11.568	
21,000.0	10,559.0	22,940.9	12,506.0	176.1	177.9	-179.99	-10,385.5	-183.7	1,946.0	1,776.2	169.76	11.463	
21,100.0	10,559.0	23,040.9	12,506.0	177.7	179.5	-179.99	-10,485.5	-183.0	1,946.0	1,774.7	171.30	11.360	
21,200.0	10,559.0	23,140.9	12,506.0	179.3	181.1	-179.99	-10,585.5	-182.3	1,946.0	1,773.2	172.83	11.259	
21,300.0	10,559.0	23,240.9	12,506.0	180.9	182.7	-179.99	-10,685.5	-181.6	1,946.0	1,771.6	174.37	11.160	
21,400.0	10,559.0	23,340.9	12,506.0	182.5	184.4	-179.99	-10,785.5	-180.9	1,946.0	1,770.1	175.91	11.063	
21,500.0	10,559.0	23,440.9	12,506.0	184.2	186.0	-179.99	-10,885.5	-180.2	1,946.0	1,768.6	177.45	10.967	
21,600.0	10,559.0	23,540.9	12,506.0	185.8	187.6	-179.99	-10,985.5	-179.5	1,946.0	1,767.0	178.99	10.872	
21,700.0	10,559.0	23,640.9	12,506.0	187.4	189.2	-179.99	-11,085.5	-178.8	1,946.0	1,765.5	180.52	10.780	
21,800.0	10,559.0	23,740.9	12,506.0	189.0	190.8	-179.99	-11,185.5	-178.1	1,946.0	1,763.9	182.06	10.689	
21,900.0	10,559.0	23,840.9	12,506.0	190.6	192.4	-179.99	-11,285.5	-177.4	1,946.0	1,762.4	183.60	10.599	
22,000.0	10,559.0	23,940.9	12,506.0	192.3	194.0	-179.99	-11,385.5	-176.7	1,946.0	1,760.9	185.15	10.511	
22,100.0	10,559.0	24,040.9	12,506.0	193.9	195.6	-179.99	-11,485.5	-176.0	1,946.0	1,759.3	186.69	10.424	
22,200.0	10,559.0	24,140.9	12,506.0	195.5	197.2	-179.99	-11,585.5	-175.3	1,946.0	1,757.8	188.23	10.338	
22,300.0	10,559.0	24,240.9	12,506.0	197.1	198.8	-179.99	-11,685.5	-174.6	1,946.0	1,756.2	189.77	10.254	
22,400.0	10,559.0	24,340.9	12,506.0	198.7	200.4	-179.99	-11,785.5	-173.9	1,946.0	1,754.7	191.31	10.172	
22,500.0	10,559.0	24,440.9	12,506.0	200.4	202.0	-179.99	-11,885.5	-173.2	1,946.0	1,753.1	192.86	10.090	
22,600.0	10,559.0	24,540.9	12,506.0	202.0	203.7	-179.99	-11,985.5	-172.5	1,946.0	1,751.6	194.40	10.010	
22,700.0	10,559.0	24,640.9	12,506.0	203.6	205.3	-179.99	-12,085.5	-171.8	1,946.0	1,750.1	195.94	9.931	
22,800.0	10,559.0	24,740.9	12,506.0	205.2	206.9	-179.99	-12,185.5	-171.1	1,946.0	1,748.5	197.49	9.854	
22,806.5	10,559.0	24,747.4	12,506.0	205.3	207.0	-179.99	-12,192.0	-171.1	1,946.0	1,748.4	197.59	9.849	
22,900.0	10,559.0	24,828.8	12,506.0	206.9	208.3	-179.99	-12,273.4	-170.5	1,946.0	1,747.2	198.88	9.785	
23,000.0	10,559.0	24,828.8	12,506.0	208.5	208.3	-179.99	-12,273.4	-170.5	1,949.2	1,750.3	198.94	9.798	
23,028.2	10,559.0	24,828.8	12,506.0	208.9	208.3	-179.99	-12,273.4	-170.5	1,951.0	1,752.2	198.89	9.810	
23,028.8	10,559.0	24,828.8	12,506.0	209.0	208.3	-179.99	-12,273.4	-170.5	1,951.1	1,752.1	199.03	9.803	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #225H - 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	-105.57	-30.6	-109.8	114.0				
100.0	100.0	101.0	101.0	0.1	0.1	-105.57	-30.6	-109.8	114.0	113.7	0.26	438.594	
200.0	200.0	201.0	201.0	0.5	0.5	-105.57	-30.6	-109.8	114.0	113.0	0.98	116.690	
300.0	300.0	301.0	301.0	0.8	0.8	-105.57	-30.6	-109.8	114.0	112.3	1.69	67.298	
400.0	400.0	401.0	401.0	1.2	1.2	-105.57	-30.6	-109.8	114.0	111.6	2.41	47.283	
500.0	500.0	501.0	501.0	1.6	1.6	-105.57	-30.6	-109.8	114.0	110.9	3.13	36.445	
600.0	600.0	601.0	601.0	1.9	1.9	-105.57	-30.6	-109.8	114.0	110.1	3.84	29.649	
700.0	700.0	701.0	701.0	2.3	2.3	-105.57	-30.6	-109.8	114.0	109.4	4.56	24.989	
800.0	800.0	801.0	801.0	2.6	2.6	-105.57	-30.6	-109.8	114.0	108.7	5.28	21.595	
900.0	900.0	901.0	901.0	3.0	3.0	-105.57	-30.6	-109.8	114.0	108.0	6.00	19.012	
1,000.0	1,000.0	1,001.0	1,001.0	3.4	3.4	-105.57	-30.6	-109.8	114.0	107.3	6.71	16.982	
1,100.0	1,100.0	1,101.0	1,101.0	3.7	3.7	-105.57	-30.6	-109.8	114.0	106.6	7.43	15.343	
1,200.0	1,200.0	1,201.0	1,201.0	4.1	4.1	-105.57	-30.6	-109.8	114.0	105.8	8.15	13.993	
1,300.0	1,300.0	1,301.0	1,301.0	4.4	4.4	-105.57	-30.6	-109.8	114.0	105.1	8.86	12.861	
1,400.0	1,400.0	1,401.0	1,401.0	4.8	4.8	-105.57	-30.6	-109.8	114.0	104.4	9.58	11.898	
1,500.0	1,500.0	1,501.0	1,501.0	5.1	5.2	-105.57	-30.6	-109.8	114.0	103.7	10.30	11.070	
1,600.0	1,600.0	1,603.0	1,603.0	5.5	5.5	-88.85	-30.1	-109.0	113.1	102.1	11.01	10.267	
1,700.0	1,700.0	1,704.8	1,704.8	5.9	5.9	-89.89	-28.7	-106.7	110.5	98.7	11.72	9.422	
1,800.0	1,799.9	1,806.6	1,806.4	6.2	6.2	-91.74	-26.4	-102.8	106.2	93.7	12.43	8.541	
1,900.0	1,899.7	1,908.1	1,907.7	6.6	6.6	-94.57	-23.1	-97.4	100.4	87.2	13.13	7.642	
2,000.0	1,999.4	2,009.3	2,008.6	6.9	7.0	-98.70	-19.0	-90.4	93.3	79.5	13.84	6.746	
2,100.0	2,098.9	2,110.1	2,109.0	7.3	7.3	-104.59	-13.9	-82.0	85.5	70.9	14.53	5.881	
2,200.0	2,198.3	2,210.6	2,208.8	7.7	7.7	-112.91	-7.9	-72.1	77.6	62.3	15.24	5.091	
2,300.0	2,297.4	2,310.5	2,307.8	8.0	8.1	-124.38	-1.1	-60.7	70.9	54.9	15.95	4.443	
2,400.0	2,396.4	2,408.9	2,405.3	8.4	8.4	-138.08	5.9	-49.0	67.5	50.8	16.71	4.042	
2,429.1	2,425.2	2,437.6	2,433.7	8.5	8.5	-142.24	8.0	-45.6	67.4	50.4	16.93	3.978	CC, ES
2,500.0	2,495.5	2,507.5	2,502.8	8.8	8.8	-152.29	13.0	-37.3	68.4	51.0	17.48	3.915	SF
2,600.0	2,594.5	2,606.0	2,600.4	9.2	9.2	-165.37	20.0	-25.5	73.4	55.2	18.25	4.024	
2,700.0	2,693.5	2,704.5	2,698.0	9.6	9.6	-176.34	27.1	-13.7	81.7	62.7	19.00	4.301	
2,800.0	2,792.5	2,803.0	2,795.5	10.0	9.9	174.93	34.2	-2.0	92.5	72.7	19.75	4.682	
2,900.0	2,891.6	2,901.6	2,893.1	10.3	10.3	168.11	41.2	9.8	104.9	84.4	20.50	5.118	
3,000.0	2,990.6	3,000.1	2,990.7	10.7	10.7	162.78	48.3	21.5	118.5	97.3	21.25	5.579	
3,100.0	3,089.6	3,101.4	3,088.3	11.1	11.1	158.57	55.3	33.3	133.0	110.9	22.01	6.041	
3,200.0	3,188.6	3,202.8	3,185.8	11.5	11.5	155.19	62.4	45.0	147.9	125.2	22.77	6.497	
3,300.0	3,287.7	3,304.3	3,283.4	11.9	11.9	152.44	69.5	56.8	163.3	139.8	23.54	6.940	
3,400.0	3,386.7	3,394.2	3,381.0	12.3	12.3	150.16	76.5	68.5	179.0	154.8	24.26	7.381	
3,500.0	3,485.7	3,507.3	3,478.5	12.7	12.7	148.25	83.6	80.3	195.0	169.9	25.07	7.776	
3,600.0	3,584.8	3,608.7	3,576.1	13.1	13.1	146.63	90.7	92.0	211.1	185.2	25.85	8.167	
3,653.6	3,637.9	3,644.1	3,628.5	13.3	13.3	145.85	94.4	98.4	219.8	193.6	26.18	8.394	
3,700.0	3,683.8	3,689.8	3,673.7	13.5	13.5	145.26	97.7	103.8	227.1	200.6	26.54	8.558	
3,800.0	3,783.2	3,788.6	3,771.5	13.9	13.9	143.83	104.8	115.6	241.5	214.2	27.30	8.846	
3,900.0	3,882.8	3,887.5	3,869.5	14.3	14.3	142.20	111.9	127.4	253.9	225.9	28.05	9.053	
4,000.0	3,982.6	3,986.6	3,967.6	14.7	14.7	140.36	119.0	139.2	264.6	235.8	28.80	9.188	
4,100.0	4,082.5	4,085.7	4,065.7	15.0	15.1	138.31	126.1	151.0	273.6	244.1	29.54	9.262	
4,187.0	4,169.5	4,171.8	4,151.0	15.3	15.4	119.28	132.3	161.3	280.2	250.0	30.18	9.285	
4,200.0	4,182.5	4,184.7	4,163.8	15.4	15.5	118.96	133.2	162.8	281.1	250.8	30.27	9.286	
4,300.0	4,282.5	4,283.7	4,261.8	15.7	15.9	116.58	140.3	174.7	288.4	257.4	31.00	9.303	
4,400.0	4,382.5	4,382.8	4,359.9	16.1	16.3	114.32	147.4	186.5	296.1	264.4	31.72	9.336	
4,500.0	4,482.5	4,481.8	4,458.0	16.4	16.7	112.18	154.5	198.3	304.3	271.9	32.44	9.381	
4,600.0	4,582.5	4,580.8	4,556.0	16.7	17.1	110.15	161.6	210.1	312.9	279.7	33.16	9.438	
4,700.0	4,682.5	4,679.8	4,654.1	17.1	17.5	108.23	168.7	221.9	321.9	288.0	33.87	9.503	
4,800.0	4,782.5	4,778.9	4,752.1	17.4	17.9	106.42	175.8	233.7	331.2	296.6	34.58	9.576	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #225H - Wellbore #1 - BLM Plan #1

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.0	4,882.5	4,877.9	4,850.2	17.8	18.3	104.71	182.9	245.5	340.8	305.5	35.29	9.656	
5,000.0	4,982.5	4,976.9	4,948.3	18.1	18.7	103.09	190.0	257.4	350.7	314.7	36.01	9.740	
5,100.0	5,082.5	5,075.9	5,046.3	18.5	19.1	101.55	197.1	269.2	360.9	324.2	36.71	9.829	
5,200.0	5,182.5	5,175.0	5,144.4	18.8	19.5	100.11	204.1	281.0	371.3	333.9	37.42	9.921	
5,300.0	5,282.5	5,274.0	5,242.5	19.2	20.0	98.74	211.2	292.8	381.9	343.8	38.13	10.016	
5,400.0	5,382.5	5,373.0	5,340.5	19.5	20.4	97.45	218.3	304.6	392.8	353.9	38.84	10.113	
5,500.0	5,482.5	5,472.1	5,438.6	19.9	20.8	96.22	225.4	316.4	403.8	364.3	39.55	10.211	
5,600.0	5,582.5	5,571.1	5,536.6	20.2	21.2	95.07	232.5	328.2	415.0	374.8	40.26	10.309	
5,700.0	5,682.5	5,670.1	5,634.7	20.6	21.6	93.97	239.6	340.1	426.4	385.4	40.96	10.409	
5,800.0	5,782.5	5,769.1	5,732.8	20.9	22.0	92.93	246.7	351.9	437.9	396.2	41.67	10.508	
5,900.0	5,882.5	5,868.2	5,830.9	21.3	22.4	91.94	253.8	363.7	449.5	407.2	42.38	10.608	
6,000.0	5,982.5	5,978.5	5,940.3	21.6	22.9	91.01	260.9	375.5	460.1	416.9	43.20	10.650	
6,100.0	6,082.5	6,089.6	6,050.9	22.0	23.3	90.31	266.4	384.6	468.3	424.3	44.00	10.642	
6,200.0	6,182.5	6,201.2	6,162.2	22.3	23.7	89.84	270.2	391.0	474.0	429.2	44.77	10.587	
6,300.0	6,282.5	6,313.1	6,274.0	22.7	24.1	89.58	272.4	394.6	477.2	431.7	45.52	10.485	
6,400.0	6,382.5	6,422.5	6,383.5	23.0	24.5	89.52	272.9	395.5	478.0	431.8	46.22	10.342	
6,500.0	6,482.5	6,522.5	6,483.5	23.4	24.8	89.52	272.9	395.5	478.0	431.1	46.92	10.189	
6,600.0	6,582.5	6,622.5	6,583.5	23.7	25.1	89.52	272.9	395.5	478.0	430.4	47.61	10.041	
6,700.0	6,682.5	6,722.5	6,683.5	24.1	25.4	89.52	272.9	395.5	478.0	429.7	48.30	9.897	
6,800.0	6,782.5	6,822.5	6,783.5	24.4	25.8	89.52	272.9	395.5	478.0	429.0	49.00	9.756	
6,900.0	6,882.5	6,922.5	6,883.5	24.8	26.1	89.52	272.9	395.5	478.0	428.3	49.69	9.620	
7,000.0	6,982.5	7,022.5	6,983.5	25.1	26.4	89.52	272.9	395.5	478.0	427.6	50.39	9.487	
7,100.0	7,082.5	7,122.5	7,083.5	25.5	26.8	89.52	272.9	395.5	478.0	426.9	51.08	9.358	
7,200.0	7,182.5	7,222.5	7,183.5	25.8	27.1	89.52	272.9	395.5	478.0	426.2	51.78	9.232	
7,300.0	7,282.5	7,322.5	7,283.5	26.2	27.4	89.52	272.9	395.5	478.0	425.5	52.48	9.109	
7,400.0	7,382.5	7,422.5	7,383.5	26.5	27.8	89.52	272.9	395.5	478.0	424.9	53.18	8.990	
7,500.0	7,482.5	7,522.5	7,483.5	26.9	28.1	89.52	272.9	395.5	478.0	424.2	53.87	8.873	
7,600.0	7,582.5	7,622.5	7,583.5	27.3	28.4	89.52	272.9	395.5	478.0	423.5	54.57	8.759	
7,700.0	7,682.5	7,722.5	7,683.5	27.6	28.8	89.52	272.9	395.5	478.0	422.8	55.27	8.649	
7,800.0	7,782.5	7,822.5	7,783.5	28.0	29.1	89.52	272.9	395.5	478.0	422.1	55.97	8.540	
7,900.0	7,882.5	7,922.5	7,883.5	28.3	29.4	89.52	272.9	395.5	478.0	421.4	56.67	8.435	
8,000.0	7,982.5	8,022.5	7,983.5	28.7	29.8	89.52	272.9	395.5	478.0	420.7	57.37	8.332	
8,100.0	8,082.5	8,122.5	8,083.5	29.0	30.1	89.52	272.9	395.5	478.0	420.0	58.07	8.231	
8,200.0	8,182.5	8,222.5	8,183.5	29.4	30.5	89.52	272.9	395.5	478.0	419.3	58.78	8.133	
8,300.0	8,282.5	8,322.5	8,283.5	29.7	30.8	89.52	272.9	395.5	478.0	418.5	59.48	8.037	
8,400.0	8,382.5	8,422.5	8,383.5	30.1	31.1	89.52	272.9	395.5	478.0	417.8	60.18	7.943	
8,500.0	8,482.5	8,522.5	8,483.5	30.4	31.5	89.52	272.9	395.5	478.0	417.1	60.88	7.852	
8,600.0	8,582.5	8,622.5	8,583.5	30.8	31.8	89.52	272.9	395.5	478.0	416.4	61.58	7.762	
8,700.0	8,682.5	8,722.5	8,683.5	31.1	32.2	89.52	272.9	395.5	478.0	415.7	62.29	7.674	
8,800.0	8,782.5	8,822.5	8,783.5	31.5	32.5	89.52	272.9	395.5	478.0	415.0	62.99	7.589	
8,900.0	8,882.5	8,922.5	8,883.5	31.9	32.8	89.52	272.9	395.5	478.0	414.3	63.70	7.505	
9,000.0	8,982.5	9,022.5	8,983.5	32.2	33.2	89.52	272.9	395.5	478.0	413.6	64.40	7.423	
9,100.0	9,082.5	9,122.5	9,083.5	32.6	33.5	89.52	272.9	395.5	478.0	412.9	65.10	7.343	
9,200.0	9,182.5	9,222.5	9,183.5	32.9	33.9	89.52	272.9	395.5	478.0	412.2	65.81	7.264	
9,300.0	9,282.5	9,322.5	9,283.5	33.3	34.2	89.52	272.9	395.5	478.0	411.5	66.51	7.187	
9,400.0	9,382.5	9,422.5	9,383.5	33.6	34.5	89.52	272.9	395.5	478.0	410.8	67.22	7.112	
9,500.0	9,482.5	9,522.5	9,483.5	34.0	34.9	89.52	272.9	395.5	478.0	410.1	67.92	7.038	
9,600.0	9,582.5	9,622.5	9,583.5	34.3	35.2	89.52	272.9	395.5	478.0	409.4	68.63	6.965	
9,700.0	9,682.5	9,722.5	9,683.5	34.7	35.6	89.52	272.9	395.5	478.0	408.7	69.33	6.894	
9,800.0	9,782.5	9,822.5	9,783.5	35.1	35.9	89.52	272.9	395.5	478.0	408.0	70.04	6.825	
9,900.0	9,882.5	9,922.5	9,883.5	35.4	36.3	89.52	272.9	395.5	478.0	407.3	70.75	6.757	
10,000.0	9,982.5	10,022.5	9,983.5	35.8	36.6	89.52	272.9	395.5	478.0	406.6	71.45	6.690	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #225H - 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
10,003.5	9,986.0	10,026.0	9,987.0	35.8	36.6	89.52	272.9	395.5	478.0	406.5	71.48	6.688	
10,050.0	10,032.4	10,072.5	10,033.4	35.9	36.8	-101.96	272.9	395.5	478.4	406.6	71.79	6.664	
10,100.0	10,082.0	10,122.1	10,083.0	36.1	37.0	-102.55	272.9	395.5	479.7	407.6	72.11	6.653	
10,150.0	10,130.9	10,171.0	10,131.9	36.2	37.1	-103.51	272.9	395.5	482.2	409.8	72.40	6.659	
10,200.0	10,178.7	10,218.7	10,179.7	36.4	37.3	-104.76	272.9	395.5	485.9	413.3	72.68	6.686	
10,250.0	10,225.0	10,265.0	10,226.0	36.5	37.4	-106.22	272.9	395.5	491.3	418.4	72.95	6.736	
10,300.0	10,269.4	10,309.5	10,270.4	36.6	37.6	-107.77	272.9	395.5	498.8	425.6	73.19	6.814	
10,350.0	10,311.8	10,351.8	10,312.8	36.7	37.7	-109.30	272.9	395.5	508.6	435.2	73.43	6.927	
10,400.0	10,351.6	10,408.3	10,352.6	36.8	37.9	-110.68	272.9	395.5	521.2	447.5	73.70	7.071	
10,450.0	10,388.7	10,428.7	10,389.7	36.9	38.0	-111.79	272.9	395.5	536.8	462.9	73.85	7.269	
10,500.0	10,422.7	10,462.7	10,423.7	37.0	38.1	-112.51	272.9	395.5	555.6	481.6	74.04	7.505	
10,550.0	10,453.3	10,506.6	10,454.3	37.1	38.3	-112.74	272.9	395.5	577.9	503.6	74.26	7.782	
10,600.0	10,480.4	10,520.5	10,481.4	37.2	38.3	-112.36	272.9	395.5	603.5	529.1	74.37	8.114	
10,650.0	10,503.8	10,543.8	10,504.8	37.3	38.4	-111.26	272.9	395.5	632.3	557.8	74.52	8.485	
10,700.0	10,523.2	10,563.2	10,524.2	37.4	38.5	-109.30	272.9	395.5	664.1	589.5	74.64	8.898	
10,750.0	10,538.5	10,578.6	10,539.5	37.5	38.5	-106.36	272.9	395.5	698.7	624.0	74.74	9.348	
10,800.0	10,549.6	10,589.7	10,550.6	37.6	38.6	-102.29	272.9	395.5	735.6	660.8	74.82	9.832	
10,850.0	10,556.5	10,603.5	10,557.5	37.7	38.6	-97.01	272.9	395.5	774.5	699.6	74.91	10.339	
10,900.0	10,558.9	10,601.0	10,559.9	37.9	38.6	-90.50	272.9	395.5	814.8	739.9	74.93	10.875	
10,903.5	10,559.0	10,601.0	10,560.0	37.9	38.6	-90.00	272.9	395.5	817.7	742.8	74.93	10.913	
11,000.0	10,559.0	10,601.0	10,560.0	38.2	38.6	-90.00	272.9	395.5	897.7	822.7	74.98	11.972	
11,100.0	10,559.0	10,601.0	10,560.0	38.5	38.6	-90.00	272.9	395.5	981.9	906.9	75.04	13.085	
11,200.0	10,559.0	10,601.0	10,560.0	38.9	38.6	-90.00	272.9	395.5	1,067.2	992.1	75.10	14.210	
11,300.0	10,559.0	10,601.0	10,560.0	39.4	38.6	-90.00	272.9	395.5	1,153.2	1,078.1	75.17	15.342	
11,400.0	10,559.0	10,601.0	10,560.0	40.0	38.6	-90.00	272.9	395.5	1,239.7	1,164.5	75.23	16.479	
11,488.5	10,559.0	10,601.0	10,560.0	40.5	38.6	-90.00	272.9	395.5	1,316.4	1,241.1	75.29	17.485	
11,500.0	10,559.0	10,601.0	10,560.0	40.5	38.6	-90.00	272.9	395.5	1,326.4	1,251.1	75.29	17.617	
11,600.0	10,559.0	10,601.0	10,560.0	41.2	38.6	-90.00	272.9	395.5	1,414.3	1,338.9	75.36	18.767	
11,700.0	10,559.0	10,601.0	10,560.0	41.9	38.6	-90.00	272.9	395.5	1,503.7	1,428.3	75.42	19.937	
11,800.0	10,559.0	10,601.0	10,560.0	42.6	38.6	-90.00	272.9	395.5	1,594.3	1,518.9	75.48	21.123	
11,900.0	10,559.0	10,601.0	10,560.0	43.4	38.6	-90.00	272.9	395.5	1,686.0	1,610.5	75.54	22.321	
12,000.0	10,559.0	13,584.3	12,137.0	44.3	49.1	-157.55	-1,381.2	405.0	1,706.3	1,654.9	51.45	33.168	
12,100.0	10,559.0	13,684.3	12,137.0	45.2	49.9	-157.55	-1,481.2	405.7	1,706.3	1,653.8	52.53	32.484	
12,200.0	10,559.0	13,784.3	12,137.0	46.1	50.8	-157.55	-1,581.2	406.4	1,706.3	1,652.7	53.66	31.800	
12,300.0	10,559.0	13,884.3	12,137.0	47.1	51.6	-157.55	-1,681.2	407.1	1,706.3	1,651.5	54.83	31.119	
12,400.0	10,559.0	13,984.3	12,137.0	48.1	52.6	-157.55	-1,781.2	407.7	1,706.3	1,650.3	56.05	30.444	
12,500.0	10,559.0	14,084.3	12,137.0	49.1	53.5	-157.55	-1,881.2	408.4	1,706.3	1,649.0	57.30	29.778	
12,600.0	10,559.0	14,184.3	12,137.0	50.2	54.5	-157.55	-1,981.2	409.1	1,706.3	1,647.7	58.59	29.123	
12,700.0	10,559.0	14,284.3	12,137.0	51.3	55.5	-157.55	-2,081.2	409.8	1,706.3	1,646.4	59.91	28.480	
12,800.0	10,559.0	14,384.3	12,137.0	52.4	56.6	-157.55	-2,181.2	410.5	1,706.3	1,645.1	61.27	27.850	
12,900.0	10,559.0	14,484.3	12,137.0	53.6	57.6	-157.55	-2,281.2	411.2	1,706.3	1,643.7	62.65	27.235	
13,000.0	10,559.0	14,584.3	12,137.0	54.8	58.8	-157.55	-2,381.2	411.9	1,706.3	1,642.3	64.06	26.635	
13,100.0	10,559.0	14,684.3	12,137.0	56.0	59.9	-157.55	-2,481.2	412.6	1,706.3	1,640.8	65.50	26.050	
13,200.0	10,559.0	14,784.3	12,137.0	57.2	61.0	-157.55	-2,581.2	413.3	1,706.3	1,639.4	66.96	25.481	
13,300.0	10,559.0	14,884.3	12,137.0	58.5	62.2	-157.55	-2,681.2	414.0	1,706.3	1,637.9	68.45	24.929	
13,400.0	10,559.0	14,984.3	12,137.0	59.8	63.4	-157.55	-2,781.2	414.7	1,706.3	1,636.4	69.95	24.392	
13,500.0	10,559.0	15,084.3	12,137.0	61.0	64.6	-157.55	-2,881.2	415.4	1,706.3	1,634.8	71.48	23.871	
13,600.0	10,559.0	15,184.3	12,137.0	62.4	65.9	-157.55	-2,981.2	416.1	1,706.3	1,633.3	73.02	23.367	
13,700.0	10,559.0	15,284.3	12,137.0	63.7	67.1	-157.55	-3,081.2	416.8	1,706.3	1,631.7	74.59	22.877	
13,800.0	10,559.0	15,384.3	12,137.0	65.0	68.4	-157.55	-3,181.2	417.4	1,706.3	1,630.1	76.16	22.403	
13,900.0	10,559.0	15,484.3	12,137.0	66.4	69.7	-157.55	-3,281.2	418.1	1,706.3	1,628.6	77.76	21.944	
14,000.0	10,559.0	15,584.3	12,137.0	67.7	71.0	-157.55	-3,381.2	418.8	1,706.3	1,626.9	79.36	21.500	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #225H - 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	10,559.0	15,684.3	12,137.0	69.1	72.3	-157.55	-3,481.2	419.5	1,706.3	1,625.3	80.99	21.069	
14,200.0	10,559.0	15,784.3	12,137.0	70.5	73.6	-157.55	-3,581.2	420.2	1,706.3	1,623.7	82.62	20.652	
14,300.0	10,559.0	15,884.3	12,137.0	71.9	74.9	-157.55	-3,681.2	420.9	1,706.3	1,622.0	84.27	20.249	
14,400.0	10,559.0	15,984.3	12,137.0	73.3	76.3	-157.55	-3,781.1	421.6	1,706.3	1,620.4	85.93	19.858	
14,500.0	10,559.0	16,084.3	12,137.0	74.8	77.7	-157.55	-3,881.1	422.3	1,706.3	1,618.7	87.59	19.480	
14,600.0	10,559.0	16,184.3	12,137.0	76.2	79.0	-157.55	-3,981.1	423.0	1,706.3	1,617.0	89.27	19.113	
14,700.0	10,559.0	16,284.3	12,137.0	77.6	80.4	-157.55	-4,081.1	423.7	1,706.3	1,615.3	90.96	18.759	
14,800.0	10,559.0	16,384.3	12,137.0	79.1	81.8	-157.55	-4,181.1	424.4	1,706.3	1,613.6	92.66	18.415	
14,900.0	10,559.0	16,484.3	12,137.0	80.5	83.2	-157.55	-4,281.1	425.1	1,706.3	1,611.9	94.36	18.082	
15,000.0	10,559.0	16,584.3	12,137.0	82.0	84.6	-157.55	-4,381.1	425.8	1,706.3	1,610.2	96.08	17.759	
15,100.0	10,559.0	16,684.3	12,137.0	83.5	86.1	-157.55	-4,481.1	426.5	1,706.3	1,608.5	97.80	17.447	
15,200.0	10,559.0	16,784.3	12,137.0	84.9	87.5	-157.55	-4,581.1	427.1	1,706.3	1,606.8	99.53	17.144	
15,300.0	10,559.0	16,884.3	12,137.0	86.4	88.9	-157.55	-4,681.1	427.8	1,706.3	1,605.0	101.27	16.850	
15,400.0	10,559.0	16,984.3	12,137.0	87.9	90.4	-157.55	-4,781.1	428.5	1,706.3	1,603.3	103.01	16.565	
15,500.0	10,559.0	17,084.3	12,137.0	89.4	91.8	-157.55	-4,881.1	429.2	1,706.3	1,601.5	104.76	16.288	
15,600.0	10,559.0	17,184.3	12,137.0	90.9	93.3	-157.55	-4,981.1	429.9	1,706.3	1,599.8	106.51	16.020	
15,700.0	10,559.0	17,284.3	12,137.0	92.4	94.8	-157.55	-5,081.1	430.6	1,706.3	1,598.0	108.27	15.759	
15,800.0	10,559.0	17,384.3	12,137.0	93.9	96.2	-157.55	-5,181.1	431.3	1,706.3	1,596.2	110.04	15.506	
15,900.0	10,559.0	17,484.3	12,137.0	95.5	97.7	-157.55	-5,281.1	432.0	1,706.3	1,594.5	111.81	15.261	
16,000.0	10,559.0	17,584.3	12,137.0	97.0	99.2	-157.55	-5,381.1	432.7	1,706.3	1,592.7	113.58	15.022	
16,100.0	10,559.0	17,684.3	12,137.0	98.5	100.7	-157.55	-5,481.1	433.4	1,706.3	1,590.9	115.37	14.790	
16,200.0	10,559.0	17,784.3	12,137.0	100.0	102.2	-157.55	-5,581.1	434.1	1,706.3	1,589.1	117.15	14.565	
16,300.0	10,559.0	17,884.3	12,137.0	101.6	103.7	-157.55	-5,681.1	434.8	1,706.3	1,587.3	118.94	14.346	
16,400.0	10,559.0	17,984.3	12,137.0	103.1	105.2	-157.55	-5,781.1	435.5	1,706.3	1,585.5	120.73	14.133	
16,500.0	10,559.0	18,084.3	12,137.0	104.6	106.7	-157.55	-5,881.1	436.2	1,706.3	1,583.7	122.53	13.925	
16,600.0	10,559.0	18,184.3	12,137.0	106.2	108.2	-157.55	-5,981.1	436.8	1,706.3	1,581.9	124.33	13.724	
16,700.0	10,559.0	18,284.3	12,137.0	107.7	109.7	-157.55	-6,081.1	437.5	1,706.3	1,580.1	126.13	13.527	
16,800.0	10,559.0	18,384.3	12,137.0	109.3	111.2	-157.55	-6,181.1	438.2	1,706.3	1,578.3	127.94	13.336	
16,900.0	10,559.0	18,484.3	12,137.0	110.8	112.8	-157.55	-6,281.1	438.9	1,706.3	1,576.5	129.75	13.150	
17,000.0	10,559.0	18,584.3	12,137.0	112.4	114.3	-157.55	-6,381.1	439.6	1,706.3	1,574.7	131.57	12.969	
17,100.0	10,559.0	18,684.3	12,137.0	113.9	115.8	-157.55	-6,481.1	440.3	1,706.3	1,572.9	133.39	12.792	
17,200.0	10,559.0	18,784.3	12,137.0	115.5	117.3	-157.55	-6,581.1	441.0	1,706.3	1,571.1	135.21	12.620	
17,300.0	10,559.0	18,884.3	12,137.0	117.1	118.9	-157.55	-6,681.1	441.7	1,706.3	1,569.2	137.03	12.452	
17,400.0	10,559.0	18,984.3	12,137.0	118.6	120.4	-157.55	-6,781.1	442.4	1,706.3	1,567.4	138.85	12.288	
17,500.0	10,559.0	19,084.3	12,137.0	120.2	122.0	-157.56	-6,881.1	443.1	1,706.3	1,565.6	140.68	12.128	
17,600.0	10,559.0	19,184.3	12,137.0	121.8	123.5	-157.56	-6,981.1	443.8	1,706.3	1,563.7	142.51	11.973	
17,700.0	10,559.0	19,284.3	12,137.0	123.3	125.1	-157.56	-7,081.1	444.5	1,706.3	1,561.9	144.34	11.821	
17,800.0	10,559.0	19,384.3	12,137.0	124.9	126.6	-157.56	-7,181.1	445.2	1,706.3	1,560.1	146.18	11.672	
17,900.0	10,559.0	19,484.3	12,137.0	126.5	128.2	-157.56	-7,281.1	445.8	1,706.2	1,558.2	148.02	11.527	
18,000.0	10,559.0	19,584.3	12,137.0	128.1	129.7	-157.56	-7,381.1	446.5	1,706.2	1,556.4	149.86	11.386	
18,100.0	10,559.0	19,684.3	12,137.0	129.7	131.3	-157.56	-7,481.1	447.2	1,706.2	1,554.5	151.70	11.248	
18,200.0	10,559.0	19,784.3	12,137.0	131.2	132.8	-157.56	-7,581.1	447.9	1,706.2	1,552.7	153.54	11.113	
18,300.0	10,559.0	19,884.3	12,137.0	132.8	134.4	-157.56	-7,681.1	448.6	1,706.2	1,550.9	155.39	10.981	
18,400.0	10,559.0	19,984.3	12,137.0	134.4	136.0	-157.56	-7,781.1	449.3	1,706.2	1,549.0	157.23	10.852	
18,500.0	10,559.0	20,084.3	12,137.0	136.0	137.5	-157.56	-7,881.1	450.0	1,706.2	1,547.2	159.08	10.725	
18,600.0	10,559.0	20,184.3	12,137.0	137.6	139.1	-157.56	-7,981.0	450.7	1,706.2	1,545.3	160.93	10.602	
18,700.0	10,559.0	20,284.3	12,137.0	139.2	140.7	-157.56	-8,081.0	451.4	1,706.2	1,543.5	162.79	10.482	
18,800.0	10,559.0	20,384.3	12,137.0	140.8	142.2	-157.56	-8,181.0	452.1	1,706.2	1,541.6	164.64	10.363	
18,900.0	10,559.0	20,484.3	12,137.0	142.4	143.8	-157.56	-8,281.0	452.8	1,706.2	1,539.7	166.49	10.248	
19,000.0	10,559.0	20,584.3	12,137.0	144.0	145.4	-157.56	-8,381.0	453.5	1,706.2	1,537.9	168.35	10.135	
19,100.0	10,559.0	20,684.3	12,137.0	145.6	147.0	-157.56	-8,481.0	454.2	1,706.2	1,536.0	170.21	10.024	
19,200.0	10,559.0	20,784.3	12,137.0	147.2	148.5	-157.56	-8,581.0	454.9	1,706.2	1,534.2	172.07	9.916	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #225H - 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	10,559.0	20,884.3	12,137.0	148.7	150.1	-157.56	-8,681.0	455.5	1,706.2	1,532.3	173.93	9.810	
19,400.0	10,559.0	20,984.3	12,137.0	150.3	151.7	-157.56	-8,781.0	456.2	1,706.2	1,530.4	175.79	9.706	
19,500.0	10,559.0	21,084.3	12,137.0	151.9	153.3	-157.56	-8,881.0	456.9	1,706.2	1,528.6	177.66	9.604	
19,600.0	10,559.0	21,184.3	12,137.0	153.6	154.9	-157.56	-8,981.0	457.6	1,706.2	1,526.7	179.52	9.504	
19,700.0	10,559.0	21,284.3	12,137.0	155.2	156.5	-157.56	-9,081.0	458.3	1,706.2	1,524.8	181.39	9.407	
19,800.0	10,559.0	21,384.3	12,137.0	156.8	158.1	-157.56	-9,181.0	459.0	1,706.2	1,523.0	183.25	9.311	
19,900.0	10,559.0	21,484.3	12,137.0	158.4	159.6	-157.56	-9,281.0	459.7	1,706.2	1,521.1	185.12	9.217	
20,000.0	10,559.0	21,584.3	12,137.0	160.0	161.2	-157.56	-9,381.0	460.4	1,706.2	1,519.2	186.99	9.125	
20,100.0	10,559.0	21,684.3	12,137.0	161.6	162.8	-157.56	-9,481.0	461.1	1,706.2	1,517.4	188.86	9.034	
20,200.0	10,559.0	21,784.3	12,137.0	163.2	164.4	-157.56	-9,581.0	461.8	1,706.2	1,515.5	190.73	8.946	
20,300.0	10,559.0	21,884.3	12,137.0	164.8	166.0	-157.56	-9,681.0	462.5	1,706.2	1,513.6	192.60	8.859	
20,400.0	10,559.0	21,984.3	12,137.0	166.4	167.6	-157.56	-9,781.0	463.2	1,706.2	1,511.7	194.48	8.773	
20,500.0	10,559.0	22,084.3	12,137.0	168.0	169.2	-157.56	-9,881.0	463.9	1,706.2	1,509.9	196.35	8.690	
20,600.0	10,559.0	22,184.3	12,137.0	169.6	170.8	-157.56	-9,981.0	464.6	1,706.2	1,508.0	198.23	8.607	
20,700.0	10,559.0	22,284.3	12,137.0	171.2	172.4	-157.56	-10,081.0	465.2	1,706.2	1,506.1	200.10	8.527	
20,800.0	10,559.0	22,384.3	12,137.0	172.8	174.0	-157.56	-10,181.0	465.9	1,706.2	1,504.2	201.98	8.447	
20,900.0	10,559.0	22,484.3	12,137.0	174.5	175.6	-157.56	-10,281.0	466.6	1,706.2	1,502.3	203.86	8.370	
21,000.0	10,559.0	22,584.3	12,137.0	176.1	177.2	-157.56	-10,381.0	467.3	1,706.2	1,500.5	205.73	8.293	
21,100.0	10,559.0	22,684.3	12,137.0	177.7	178.8	-157.56	-10,481.0	468.0	1,706.2	1,498.6	207.61	8.218	
21,200.0	10,559.0	22,784.3	12,137.0	179.3	180.4	-157.56	-10,581.0	468.7	1,706.2	1,496.7	209.49	8.144	
21,300.0	10,559.0	22,884.3	12,137.0	180.9	182.0	-157.56	-10,681.0	469.4	1,706.2	1,494.8	211.37	8.072	
21,400.0	10,559.0	22,984.3	12,137.0	182.5	183.6	-157.56	-10,781.0	470.1	1,706.2	1,492.9	213.25	8.001	
21,500.0	10,559.0	23,084.3	12,137.0	184.2	185.2	-157.56	-10,881.0	470.8	1,706.2	1,491.1	215.14	7.931	
21,600.0	10,559.0	23,184.3	12,137.0	185.8	186.8	-157.56	-10,981.0	471.5	1,706.2	1,489.2	217.02	7.862	
21,700.0	10,559.0	23,284.3	12,137.0	187.4	188.4	-157.56	-11,081.0	472.2	1,706.2	1,487.3	218.90	7.794	
21,800.0	10,559.0	23,384.3	12,137.0	189.0	190.0	-157.56	-11,181.0	472.9	1,706.2	1,485.4	220.79	7.728	
21,900.0	10,559.0	23,484.3	12,137.0	190.6	191.7	-157.56	-11,281.0	473.6	1,706.2	1,483.5	222.67	7.662	
22,000.0	10,559.0	23,584.3	12,137.0	192.3	193.3	-157.56	-11,381.0	474.3	1,706.2	1,481.6	224.56	7.598	
22,100.0	10,559.0	23,684.3	12,137.0	193.9	194.9	-157.56	-11,481.0	474.9	1,706.2	1,479.7	226.44	7.535	
22,200.0	10,559.0	23,784.3	12,137.0	195.5	196.5	-157.56	-11,581.0	475.6	1,706.2	1,477.9	228.33	7.472	
22,300.0	10,559.0	23,884.3	12,137.0	197.1	198.1	-157.56	-11,681.0	476.3	1,706.2	1,476.0	230.22	7.411	
22,400.0	10,559.0	23,984.3	12,137.0	198.7	199.7	-157.56	-11,781.0	477.0	1,706.2	1,474.1	232.10	7.351	
22,500.0	10,559.0	24,084.3	12,137.0	200.4	201.3	-157.56	-11,881.0	477.7	1,706.2	1,472.2	233.99	7.292	
22,600.0	10,559.0	24,184.3	12,137.0	202.0	202.9	-157.56	-11,981.0	478.4	1,706.2	1,470.3	235.88	7.233	
22,700.0	10,559.0	24,284.3	12,137.0	203.6	204.6	-157.56	-12,081.0	479.1	1,706.2	1,468.4	237.77	7.176	
22,800.0	10,559.0	24,384.3	12,137.0	205.2	206.2	-157.56	-12,180.9	479.8	1,706.2	1,466.5	239.66	7.119	
22,895.7	10,559.0	24,480.0	12,137.0	206.8	207.7	-157.56	-12,276.7	480.5	1,706.2	1,464.7	241.47	7.066	
22,900.0	10,559.0	24,472.8	12,137.0	206.9	207.6	-157.56	-12,269.4	480.4	1,706.2	1,464.8	241.40	7.068	
23,000.0	10,559.0	24,472.8	12,137.0	208.5	207.6	-157.56	-12,269.4	480.4	1,709.8	1,468.2	241.63	7.076	
23,028.2	10,559.0	24,472.8	12,137.0	208.9	207.6	-157.56	-12,269.4	480.4	1,711.9	1,470.3	241.56	7.087	
23,028.8	10,559.0	24,472.8	12,137.0	209.0	207.6	-157.56	-12,269.4	480.4	1,711.9	1,470.2	241.68	7.083	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #241H - 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	134.71	-29.8	30.1	42.3				
100.0	100.0	101.0	99.0	0.1	0.1	134.71	-29.8	30.1	42.3	42.1	0.26	162.912	
200.0	200.0	201.0	199.0	0.5	0.5	134.71	-29.8	30.1	42.3	41.4	0.98	43.344	
300.0	300.0	301.0	299.0	0.8	0.8	134.71	-29.8	30.1	42.3	40.6	1.69	24.997	
400.0	400.0	401.0	399.0	1.2	1.2	134.71	-29.8	30.1	42.3	39.9	2.41	17.563	
500.0	500.0	501.0	499.0	1.6	1.6	134.71	-29.8	30.1	42.3	39.2	3.13	13.537	
600.0	600.0	601.0	599.0	1.9	1.9	134.71	-29.8	30.1	42.3	38.5	3.84	11.013	
700.0	700.0	701.0	699.0	2.3	2.3	134.71	-29.8	30.1	42.3	37.8	4.56	9.282	
800.0	800.0	801.0	799.0	2.6	2.6	134.71	-29.8	30.1	42.3	37.1	5.28	8.021	
900.0	900.0	901.0	899.0	3.0	3.0	134.71	-29.8	30.1	42.3	36.3	6.00	7.062	
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	134.71	-29.8	30.1	42.3	35.6	6.71	6.308	
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	134.71	-29.8	30.1	42.3	34.9	7.43	5.699	
1,200.0	1,200.0	1,201.0	1,199.0	4.1	4.1	134.71	-29.8	30.1	42.3	34.2	8.15	5.197	
1,300.0	1,300.0	1,301.0	1,299.0	4.4	4.4	134.71	-29.8	30.1	42.3	33.5	8.86	4.777	
1,400.0	1,400.0	1,401.0	1,399.0	4.8	4.8	134.71	-29.8	30.1	42.3	32.8	9.58	4.419	
1,500.0	1,500.0	1,499.0	1,499.0	5.1	5.1	134.71	-29.8	30.1	42.3	32.0	10.29	4.115 CC	
1,600.0	1,600.0	1,599.5	1,599.5	5.5	5.5	151.39	-28.9	30.2	42.6	31.6	11.01	3.867	
1,700.0	1,700.0	1,699.9	1,699.9	5.9	5.9	150.29	-26.3	30.5	43.3	31.5	11.72	3.691 ES	
1,800.0	1,799.9	1,800.3	1,800.2	6.2	6.2	148.52	-21.9	31.0	44.5	32.0	12.44	3.576	
1,900.0	1,899.7	1,900.7	1,900.4	6.6	6.6	146.21	-15.8	31.7	46.2	33.1	13.15	3.514	
2,000.0	1,999.4	2,001.1	2,000.5	6.9	6.9	143.48	-8.0	32.7	48.6	34.7	13.87	3.502	
2,100.0	2,098.9	2,101.5	2,100.3	7.3	7.3	140.50	1.6	33.8	51.6	37.0	14.59	3.535	
2,200.0	2,198.3	2,201.7	2,200.0	7.7	7.7	137.40	13.0	35.1	55.3	40.0	15.32	3.608	
2,300.0	2,297.4	2,302.0	2,299.4	8.0	8.0	134.31	26.0	36.7	59.7	43.7	16.05	3.719	
2,400.0	2,396.4	2,401.8	2,398.2	8.4	8.4	131.58	39.8	38.3	64.6	47.8	16.80	3.846	
2,500.0	2,495.5	2,501.6	2,497.1	8.8	8.8	129.24	53.6	39.9	69.6	52.1	17.55	3.968	
2,600.0	2,594.5	2,601.5	2,595.9	9.2	9.2	127.21	67.4	41.5	74.8	56.5	18.31	4.083	
2,700.0	2,693.5	2,701.3	2,694.8	9.6	9.6	125.45	81.2	43.2	80.0	60.9	19.08	4.193	
2,800.0	2,792.5	2,801.1	2,793.7	10.0	10.0	123.90	95.0	44.8	85.3	65.4	19.85	4.296	
2,900.0	2,891.6	2,901.0	2,892.5	10.3	10.3	122.54	108.8	46.4	90.6	70.0	20.63	4.393	
3,000.0	2,990.6	3,000.8	2,991.4	10.7	10.7	121.33	122.6	48.0	96.0	74.6	21.40	4.484	
3,100.0	3,089.6	3,100.7	3,090.3	11.1	11.1	120.24	136.4	49.7	101.4	79.2	22.19	4.570	
3,200.0	3,188.6	3,200.5	3,189.1	11.5	11.5	119.27	150.2	51.3	106.9	83.9	22.97	4.651	
3,300.0	3,287.7	3,300.3	3,288.0	11.9	11.9	118.39	164.0	52.9	112.3	88.6	23.76	4.727	
3,400.0	3,386.7	3,400.2	3,386.8	12.3	12.3	117.59	177.8	54.5	117.8	93.3	24.56	4.799	
3,500.0	3,485.7	3,500.0	3,485.7	12.7	12.7	116.87	191.6	56.2	123.4	98.0	25.35	4.866	
3,600.0	3,584.8	3,600.2	3,584.6	13.1	13.1	116.20	205.4	57.8	128.9	102.8	26.15	4.930	
3,653.6	3,637.9	3,653.4	3,637.6	13.3	13.3	115.87	212.8	58.7	131.9	105.3	26.58	4.962	
3,700.0	3,683.8	3,700.3	3,683.4	13.5	13.5	115.52	219.2	59.4	134.3	107.4	26.95	4.985	
3,800.0	3,783.2	3,799.5	3,782.3	13.9	13.9	114.08	233.0	61.0	138.9	111.1	27.74	5.005	
3,900.0	3,882.8	3,899.4	3,881.3	14.3	14.3	112.21	245.7	62.5	142.5	113.9	28.53	4.994	
4,000.0	3,982.6	3,999.4	3,980.8	14.7	14.7	110.47	255.8	63.7	145.2	115.9	29.29	4.955	
4,100.0	4,082.5	4,099.6	4,080.7	15.0	15.1	108.84	263.4	64.6	146.9	116.9	30.04	4.891	
4,187.0	4,169.5	4,186.8	4,167.8	15.3	15.4	90.42	267.9	65.1	147.7	117.0	30.66	4.816	
4,200.0	4,182.5	4,199.9	4,180.9	15.4	15.4	90.23	268.4	65.2	147.7	117.0	30.75	4.803	
4,300.0	4,282.5	4,300.3	4,281.3	15.7	15.8	89.31	270.7	65.5	148.0	116.5	31.45	4.705	
4,400.0	4,382.5	4,400.5	4,381.5	16.1	16.1	89.23	270.9	65.5	148.0	115.9	32.14	4.605	
4,500.0	4,482.5	4,500.5	4,481.5	16.4	16.5	89.23	270.9	65.5	148.0	115.2	32.83	4.509	
4,600.0	4,582.5	4,600.5	4,581.5	16.7	16.8	89.23	270.9	65.5	148.0	114.5	33.52	4.416	
4,700.0	4,682.5	4,700.5	4,681.5	17.1	17.2	89.23	270.9	65.5	148.0	113.8	34.21	4.327	
4,800.0	4,782.5	4,800.5	4,781.5	17.4	17.5	89.23	270.9	65.5	148.0	113.1	34.90	4.242	
4,900.0	4,882.5	4,900.5	4,881.5	17.8	17.9	89.23	270.9	65.5	148.0	112.4	35.59	4.159	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #241H - 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
5,000.0	4,982.5	5,000.5	4,981.5	18.1	18.2	89.23	270.9	65.5	148.0	111.7	36.28	4.080	
5,100.0	5,082.5	5,100.5	5,081.5	18.5	18.5	89.23	270.9	65.5	148.0	111.0	36.97	4.004	
5,200.0	5,182.5	5,200.5	5,181.5	18.8	18.9	89.23	270.9	65.5	148.0	110.4	37.67	3.930	
5,300.0	5,282.5	5,300.5	5,281.5	19.2	19.2	89.23	270.9	65.5	148.0	109.7	38.36	3.859	
5,400.0	5,382.5	5,400.5	5,381.5	19.5	19.6	89.23	270.9	65.5	148.0	109.0	39.06	3.790	
5,500.0	5,482.5	5,500.5	5,481.5	19.9	19.9	89.23	270.9	65.5	148.0	108.3	39.75	3.723	
5,600.0	5,582.5	5,600.5	5,581.5	20.2	20.3	89.23	270.9	65.5	148.0	107.6	40.45	3.659	
5,700.0	5,682.5	5,700.5	5,681.5	20.6	20.6	89.23	270.9	65.5	148.0	106.9	41.15	3.597	
5,800.0	5,782.5	5,800.5	5,781.5	20.9	21.0	89.23	270.9	65.5	148.0	106.2	41.85	3.537	
5,900.0	5,882.5	5,900.5	5,881.5	21.3	21.3	89.23	270.9	65.5	148.0	105.5	42.55	3.479	
6,000.0	5,982.5	6,000.5	5,981.5	21.6	21.7	89.23	270.9	65.5	148.0	104.8	43.25	3.423	
6,100.0	6,082.5	6,100.5	6,081.5	22.0	22.0	89.23	270.9	65.5	148.0	104.1	43.95	3.368	
6,200.0	6,182.5	6,200.5	6,181.5	22.3	22.4	89.23	270.9	65.5	148.0	103.4	44.65	3.315	
6,300.0	6,282.5	6,300.5	6,281.5	22.7	22.7	89.23	270.9	65.5	148.0	102.7	45.35	3.264	
6,400.0	6,382.5	6,400.5	6,381.5	23.0	23.1	89.23	270.9	65.5	148.0	102.0	46.05	3.214	
6,500.0	6,482.5	6,500.5	6,481.5	23.4	23.4	89.23	270.9	65.5	148.0	101.3	46.75	3.166	
6,600.0	6,582.5	6,600.5	6,581.5	23.7	23.8	89.23	270.9	65.5	148.0	100.6	47.45	3.119	
6,700.0	6,682.5	6,700.5	6,681.5	24.1	24.1	89.23	270.9	65.5	148.0	99.9	48.16	3.074	
6,800.0	6,782.5	6,800.5	6,781.5	24.4	24.5	89.23	270.9	65.5	148.0	99.2	48.86	3.029	
6,900.0	6,882.5	6,900.5	6,881.5	24.8	24.8	89.23	270.9	65.5	148.0	98.5	49.56	2.986	
7,000.0	6,982.5	7,000.5	6,981.5	25.1	25.2	89.23	270.9	65.5	148.0	97.8	50.27	2.945	
7,100.0	7,082.5	7,100.5	7,081.5	25.5	25.5	89.23	270.9	65.5	148.0	97.0	50.97	2.904	
7,200.0	7,182.5	7,200.5	7,181.5	25.8	25.9	89.23	270.9	65.5	148.0	96.3	51.68	2.864	
7,300.0	7,282.5	7,300.5	7,281.5	26.2	26.2	89.23	270.9	65.5	148.0	95.6	52.38	2.826	
7,400.0	7,382.5	7,400.5	7,381.5	26.5	26.6	89.23	270.9	65.5	148.0	94.9	53.09	2.788	
7,500.0	7,482.5	7,500.5	7,481.5	26.9	26.9	89.23	270.9	65.5	148.0	94.2	53.80	2.752	
7,600.0	7,582.5	7,600.5	7,581.5	27.3	27.3	89.23	270.9	65.5	148.0	93.5	54.50	2.716	
7,700.0	7,682.5	7,700.5	7,681.5	27.6	27.6	89.23	270.9	65.5	148.0	92.8	55.21	2.681	
7,800.0	7,782.5	7,800.5	7,781.5	28.0	28.0	89.23	270.9	65.5	148.0	92.1	55.91	2.647	
7,900.0	7,882.5	7,900.5	7,881.5	28.3	28.4	89.23	270.9	65.5	148.0	91.4	56.62	2.614	
8,000.0	7,982.5	8,000.5	7,981.5	28.7	28.7	89.23	270.9	65.5	148.0	90.7	57.33	2.582	
8,100.0	8,082.5	8,100.5	8,081.5	29.0	29.1	89.23	270.9	65.5	148.0	90.0	58.04	2.550	
8,200.0	8,182.5	8,200.5	8,181.5	29.4	29.4	89.23	270.9	65.5	148.0	89.3	58.74	2.520	
8,300.0	8,282.5	8,300.5	8,281.5	29.7	29.8	89.23	270.9	65.5	148.0	88.6	59.45	2.490	
8,400.0	8,382.5	8,400.5	8,381.5	30.1	30.1	89.23	270.9	65.5	148.0	87.9	60.16	2.460	
8,500.0	8,482.5	8,500.5	8,481.5	30.4	30.5	89.23	270.9	65.5	148.0	87.2	60.87	2.432	
8,600.0	8,582.5	8,600.5	8,581.5	30.8	30.8	89.23	270.9	65.5	148.0	86.4	61.58	2.404	
8,700.0	8,682.5	8,700.5	8,681.5	31.1	31.2	89.23	270.9	65.5	148.0	85.7	62.29	2.376	
8,800.0	8,782.5	8,800.5	8,781.5	31.5	31.5	89.23	270.9	65.5	148.0	85.0	62.99	2.350	
8,900.0	8,882.5	8,900.5	8,881.5	31.9	31.9	89.23	270.9	65.5	148.0	84.3	63.70	2.324	
9,000.0	8,982.5	9,000.5	8,981.5	32.2	32.2	89.23	270.9	65.5	148.0	83.6	64.41	2.298	
9,100.0	9,082.5	9,100.5	9,081.5	32.6	32.6	89.23	270.9	65.5	148.0	82.9	65.12	2.273	
9,200.0	9,182.5	9,200.5	9,181.5	32.9	33.0	89.23	270.9	65.5	148.0	82.2	65.83	2.248	
9,300.0	9,282.5	9,300.5	9,281.5	33.3	33.3	89.23	270.9	65.5	148.0	81.5	66.54	2.224	
9,400.0	9,382.5	9,400.5	9,381.5	33.6	33.7	89.23	270.9	65.5	148.0	80.8	67.25	2.201	
9,500.0	9,482.5	9,500.5	9,481.5	34.0	34.0	89.23	270.9	65.5	148.0	80.1	67.96	2.178	
9,600.0	9,582.5	9,600.5	9,581.5	34.3	34.4	89.23	270.9	65.5	148.0	79.3	68.67	2.155	
9,700.0	9,682.5	9,700.5	9,681.5	34.7	34.7	89.23	270.9	65.5	148.0	78.6	69.38	2.133	
9,800.0	9,782.5	9,800.5	9,781.5	35.1	35.1	89.23	270.9	65.5	148.0	77.9	70.09	2.112	
9,900.0	9,882.5	9,900.5	9,881.5	35.4	35.4	89.23	270.9	65.5	148.0	77.2	70.80	2.091	
10,000.0	9,982.5	10,000.5	9,981.5	35.8	35.8	89.23	270.9	65.5	148.0	76.5	71.51	2.070	
10,003.5	9,986.0	10,004.0	9,985.0	35.8	35.8	89.23	270.9	65.5	148.0	76.5	71.54	2.069	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #241H - 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	10,032.4	10,050.5	10,031.4	35.9	36.0	-102.74	270.9	65.5	148.4	76.6	71.86	2.066	SF
10,100.0	10,082.0	10,100.0	10,081.0	36.1	36.1	-104.89	270.9	65.5	149.9	77.7	72.19	2.077	
10,150.0	10,130.9	10,148.9	10,129.9	36.2	36.3	-108.33	270.9	65.5	153.0	80.5	72.50	2.110	
10,200.0	10,178.7	10,203.3	10,177.7	36.4	36.5	-112.70	270.9	65.5	158.4	85.6	72.83	2.175	
10,250.0	10,225.0	10,243.0	10,224.0	36.5	36.7	-117.57	270.9	65.5	166.9	93.9	73.08	2.284	
10,300.0	10,269.4	10,287.4	10,268.4	36.6	36.8	-122.46	270.9	65.5	179.4	106.1	73.34	2.446	
10,350.0	10,311.8	10,329.8	10,310.8	36.7	37.0	-126.99	270.9	65.5	196.3	122.7	73.57	2.668	
10,400.0	10,351.6	10,369.6	10,350.6	36.8	37.1	-130.88	270.9	65.5	217.8	144.0	73.78	2.952	
10,450.0	10,388.7	10,406.7	10,387.7	36.9	37.2	-133.97	270.9	65.5	243.9	169.9	73.98	3.297	
10,500.0	10,422.7	10,440.7	10,421.7	37.0	37.4	-136.18	270.9	65.5	274.2	200.1	74.15	3.699	
10,550.0	10,453.3	10,471.3	10,452.3	37.1	37.5	-137.43	270.9	65.5	308.5	234.2	74.30	4.152	
10,600.0	10,480.4	10,501.6	10,479.4	37.2	37.6	-137.66	270.9	65.5	346.1	271.7	74.45	4.649	
10,650.0	10,503.8	10,521.8	10,502.8	37.3	37.6	-136.69	270.9	65.5	386.7	312.2	74.54	5.188	
10,700.0	10,523.2	10,541.2	10,522.2	37.4	37.7	-134.19	270.9	65.5	429.8	355.1	74.63	5.758	
10,750.0	10,538.5	10,556.5	10,537.5	37.5	37.8	-129.59	270.9	65.5	474.8	400.1	74.70	6.357	
10,800.0	10,549.6	10,567.6	10,548.6	37.6	37.8	-121.87	270.9	65.5	521.5	446.7	74.74	6.977	
10,850.0	10,556.5	10,574.5	10,555.5	37.7	37.8	-109.52	270.9	65.5	569.2	494.4	74.77	7.613	
10,900.0	10,558.9	10,577.0	10,557.9	37.9	37.8	-91.46	270.9	65.5	617.6	542.8	74.77	8.260	
10,903.5	10,559.0	10,577.0	10,558.0	37.9	37.8	-90.00	270.9	65.5	621.0	546.2	74.77	8.305	
11,000.0	10,559.0	10,577.0	10,558.0	38.2	37.8	-90.00	270.9	65.5	714.9	640.1	74.77	9.561	
11,100.0	10,559.0	10,577.0	10,558.0	38.5	37.8	-90.00	270.9	65.5	812.1	737.3	74.76	10.862	
11,200.0	10,559.0	10,577.0	10,558.0	38.9	37.8	-90.00	270.9	65.5	909.1	834.4	74.76	12.160	
11,300.0	10,559.0	10,577.0	10,558.0	39.4	37.8	-90.00	270.9	65.5	1,006.0	931.2	74.77	13.456	
11,400.0	10,559.0	10,577.0	10,558.0	40.0	37.8	-90.00	270.9	65.5	1,102.6	1,027.9	74.77	14.747	
11,488.5	10,559.0	10,577.0	10,558.0	40.5	37.8	-90.00	270.9	65.5	1,187.9	1,113.1	74.78	15.886	
11,500.0	10,559.0	10,577.0	10,558.0	40.5	37.8	-90.00	270.9	65.5	1,199.0	1,124.2	74.78	16.034	
11,600.0	10,559.0	10,577.0	10,558.0	41.2	37.8	-90.00	270.9	65.5	1,295.5	1,220.8	74.79	17.323	
11,700.0	10,559.0	10,577.0	10,558.0	41.9	37.8	-90.00	270.9	65.5	1,392.6	1,317.8	74.80	18.618	
11,800.0	10,559.0	10,577.0	10,558.0	42.6	37.8	-90.00	270.9	65.5	1,490.0	1,415.2	74.81	19.917	
11,900.0	10,559.0	10,577.0	10,558.0	43.4	37.8	-90.00	270.9	65.5	1,587.8	1,513.0	74.83	21.219	
12,000.0	10,559.0	10,577.0	10,558.0	44.3	37.8	-90.00	270.9	65.5	1,685.8	1,611.0	74.85	22.524	
12,100.0	10,559.0	10,577.0	10,558.0	45.2	37.8	-90.00	270.9	65.5	1,784.1	1,709.2	74.86	23.831	
12,200.0	10,559.0	10,577.0	10,558.0	46.1	37.8	-90.00	270.9	65.5	1,882.5	1,807.6	74.88	25.139	
12,300.0	10,559.0	10,577.0	10,558.0	47.1	37.8	-90.00	270.9	65.5	1,981.1	1,906.2	74.90	26.448	
12,400.0	10,559.0	10,577.0	10,558.0	48.1	37.8	-90.00	270.9	65.5	2,079.8	2,004.9	74.92	27.759	
12,500.0	10,559.0	10,577.0	10,558.0	49.1	37.8	-90.00	270.9	65.5	2,178.6	2,103.7	74.95	29.069	
12,600.0	10,559.0	10,577.0	10,558.0	50.2	37.8	-90.00	270.9	65.5	2,277.6	2,202.6	74.97	30.380	
12,700.0	10,559.0	10,577.0	10,558.0	51.3	37.8	-90.00	270.9	65.5	2,376.6	2,301.6	74.99	31.690	
12,800.0	10,559.0	10,577.0	10,558.0	52.4	37.8	-90.00	270.9	65.5	2,475.7	2,400.7	75.02	33.001	
12,900.0	10,559.0	10,577.0	10,558.0	53.6	37.8	-90.00	270.9	65.5	2,574.9	2,499.8	75.05	34.311	
13,000.0	10,559.0	10,577.0	10,558.0	54.8	37.8	-90.00	270.9	65.5	2,674.1	2,599.0	75.07	35.620	
13,100.0	10,559.0	10,577.0	10,558.0	56.0	37.8	-90.00	270.9	65.5	2,773.4	2,698.3	75.10	36.929	
13,200.0	10,559.0	10,577.0	10,558.0	57.2	37.8	-90.00	270.9	65.5	2,872.7	2,797.6	75.13	38.237	
13,300.0	10,559.0	10,577.0	10,558.0	58.5	37.8	-90.00	270.9	65.5	2,972.1	2,897.0	75.16	39.544	
13,400.0	10,559.0	16,365.5	13,538.0	59.8	66.7	-173.84	-2,783.5	84.7	2,997.3	2,935.1	62.16	48.222	
13,500.0	10,559.0	16,465.5	13,538.0	61.0	67.8	-173.84	-2,883.4	85.4	2,997.3	2,933.9	63.40	47.276	
13,600.0	10,559.0	16,565.5	13,538.0	62.4	69.0	-173.84	-2,983.4	86.1	2,997.3	2,932.6	64.66	46.356	
13,700.0	10,559.0	16,665.5	13,538.0	63.7	70.2	-173.84	-3,083.4	86.8	2,997.3	2,931.4	65.93	45.461	
13,800.0	10,559.0	16,765.5	13,538.0	65.0	71.4	-173.84	-3,183.4	87.5	2,997.3	2,930.1	67.22	44.591	
13,900.0	10,559.0	16,865.5	13,538.0	66.4	72.6	-173.84	-3,283.4	88.2	2,997.3	2,928.8	68.52	43.745	
14,000.0	10,559.0	16,965.5	13,538.0	67.7	73.9	-173.84	-3,383.4	88.9	2,997.3	2,927.5	69.83	42.923	
14,100.0	10,559.0	17,065.5	13,538.0	69.1	75.1	-173.84	-3,483.4	89.6	2,997.3	2,926.2	71.15	42.125	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #241H - 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	10,559.0	17,165.5	13,538.0	70.5	76.4	-173.84	-3,583.4	90.2	2,997.3	2,924.8	72.49	41.350	
14,300.0	10,559.0	17,265.5	13,538.0	71.9	77.7	-173.84	-3,683.4	90.9	2,997.3	2,923.5	73.83	40.598	
14,400.0	10,559.0	17,365.5	13,538.0	73.3	79.0	-173.84	-3,783.4	91.6	2,997.3	2,922.1	75.18	39.867	
14,500.0	10,559.0	17,465.5	13,538.0	74.8	80.3	-173.84	-3,883.4	92.3	2,997.3	2,920.8	76.55	39.157	
14,600.0	10,559.0	17,565.5	13,538.0	76.2	81.7	-173.84	-3,983.4	93.0	2,997.3	2,919.4	77.92	38.468	
14,700.0	10,559.0	17,665.5	13,538.0	77.6	83.0	-173.84	-4,083.4	93.7	2,997.3	2,918.0	79.30	37.798	
14,800.0	10,559.0	17,765.5	13,538.0	79.1	84.4	-173.84	-4,183.4	94.4	2,997.3	2,916.6	80.68	37.148	
14,900.0	10,559.0	17,865.5	13,538.0	80.5	85.7	-173.84	-4,283.4	95.1	2,997.3	2,915.2	82.08	36.517	
15,000.0	10,559.0	17,965.5	13,538.0	82.0	87.1	-173.84	-4,383.4	95.8	2,997.3	2,913.8	83.48	35.903	
15,100.0	10,559.0	18,065.5	13,538.0	83.5	88.5	-173.84	-4,483.4	96.5	2,997.3	2,912.4	84.89	35.307	
15,200.0	10,559.0	18,165.5	13,538.0	84.9	89.9	-173.84	-4,583.4	97.2	2,997.3	2,911.0	86.31	34.728	
15,300.0	10,559.0	18,265.5	13,538.0	86.4	91.3	-173.84	-4,683.4	97.9	2,997.3	2,909.6	87.73	34.165	
15,400.0	10,559.0	18,365.5	13,538.0	87.9	92.7	-173.84	-4,783.4	98.6	2,997.3	2,908.1	89.16	33.618	
15,500.0	10,559.0	18,465.5	13,538.0	89.4	94.1	-173.84	-4,883.4	99.3	2,997.3	2,906.7	90.59	33.086	
15,600.0	10,559.0	18,565.5	13,538.0	90.9	95.5	-173.84	-4,983.4	100.0	2,997.3	2,905.3	92.03	32.569	
15,700.0	10,559.0	18,665.5	13,538.0	92.4	97.0	-173.84	-5,083.4	100.7	2,997.3	2,903.8	93.47	32.066	
15,800.0	10,559.0	18,765.5	13,538.0	93.9	98.4	-173.84	-5,183.4	101.3	2,997.3	2,902.4	94.92	31.576	
15,900.0	10,559.0	18,865.5	13,538.0	95.5	99.8	-173.84	-5,283.4	102.0	2,997.3	2,900.9	96.38	31.100	
16,000.0	10,559.0	18,965.5	13,538.0	97.0	101.3	-173.84	-5,383.4	102.7	2,997.3	2,899.5	97.83	30.637	
16,100.0	10,559.0	19,065.5	13,538.0	98.5	102.8	-173.84	-5,483.4	103.4	2,997.3	2,898.0	99.30	30.186	
16,200.0	10,559.0	19,165.5	13,538.0	100.0	104.2	-173.84	-5,583.4	104.1	2,997.3	2,896.5	100.76	29.746	
16,300.0	10,559.0	19,265.5	13,538.0	101.6	105.7	-173.84	-5,683.4	104.8	2,997.3	2,895.1	102.23	29.319	
16,400.0	10,559.0	19,365.5	13,538.0	103.1	107.2	-173.84	-5,783.4	105.5	2,997.3	2,893.6	103.71	28.902	
16,500.0	10,559.0	19,465.5	13,538.0	104.6	108.6	-173.84	-5,883.4	106.2	2,997.3	2,892.1	105.18	28.496	
16,600.0	10,559.0	19,565.5	13,538.0	106.2	110.1	-173.84	-5,983.4	106.9	2,997.3	2,890.6	106.66	28.100	
16,700.0	10,559.0	19,665.5	13,538.0	107.7	111.6	-173.84	-6,083.4	107.6	2,997.3	2,889.1	108.15	27.715	
16,800.0	10,559.0	19,765.5	13,538.0	109.3	113.1	-173.84	-6,183.4	108.3	2,997.3	2,887.7	109.64	27.338	
16,900.0	10,559.0	19,865.5	13,538.0	110.8	114.6	-173.84	-6,283.4	109.0	2,997.3	2,886.2	111.13	26.972	
17,000.0	10,559.0	19,965.5	13,538.0	112.4	116.1	-173.84	-6,383.4	109.7	2,997.3	2,884.7	112.62	26.614	
17,100.0	10,559.0	20,065.5	13,538.0	113.9	117.6	-173.84	-6,483.4	110.4	2,997.3	2,883.2	114.12	26.265	
17,200.0	10,559.0	20,165.5	13,538.0	115.5	119.1	-173.84	-6,583.4	111.1	2,997.3	2,881.7	115.62	25.925	
17,300.0	10,559.0	20,265.5	13,538.0	117.1	120.6	-173.84	-6,683.4	111.7	2,997.3	2,880.2	117.12	25.592	
17,400.0	10,559.0	20,365.5	13,538.0	118.6	122.2	-173.84	-6,783.4	112.4	2,997.3	2,878.7	118.62	25.268	
17,500.0	10,559.0	20,465.5	13,538.0	120.2	123.7	-173.84	-6,883.4	113.1	2,997.3	2,877.2	120.13	24.951	
17,600.0	10,559.0	20,565.5	13,538.0	121.8	125.2	-173.84	-6,983.4	113.8	2,997.3	2,875.7	121.64	24.641	
17,700.0	10,559.0	20,665.5	13,538.0	123.3	126.7	-173.84	-7,083.3	114.5	2,997.3	2,874.1	123.15	24.339	
17,800.0	10,559.0	20,765.5	13,538.0	124.9	128.3	-173.84	-7,183.3	115.2	2,997.3	2,872.6	124.66	24.043	
17,900.0	10,559.0	20,865.5	13,538.0	126.5	129.8	-173.84	-7,283.3	115.9	2,997.3	2,871.1	126.18	23.754	
18,000.0	10,559.0	20,965.5	13,538.0	128.1	131.3	-173.84	-7,383.3	116.6	2,997.3	2,869.6	127.70	23.472	
18,100.0	10,559.0	21,065.5	13,538.0	129.7	132.9	-173.84	-7,483.3	117.3	2,997.3	2,868.1	129.22	23.196	
18,200.0	10,559.0	21,165.5	13,538.0	131.2	134.4	-173.84	-7,583.3	118.0	2,997.3	2,866.6	130.74	22.926	
18,300.0	10,559.0	21,265.5	13,538.0	132.8	135.9	-173.84	-7,683.3	118.7	2,997.3	2,865.0	132.26	22.662	
18,400.0	10,559.0	21,365.5	13,538.0	134.4	137.5	-173.84	-7,783.3	119.4	2,997.3	2,863.5	133.79	22.404	
18,500.0	10,559.0	21,465.5	13,538.0	136.0	139.0	-173.84	-7,883.3	120.1	2,997.3	2,862.0	135.31	22.151	
18,600.0	10,559.0	21,565.5	13,538.0	137.6	140.6	-173.84	-7,983.3	120.8	2,997.3	2,860.4	136.84	21.904	
18,700.0	10,559.0	21,665.5	13,538.0	139.2	142.1	-173.84	-8,083.3	121.5	2,997.3	2,858.9	138.37	21.661	
18,800.0	10,559.0	21,765.5	13,538.0	140.8	143.7	-173.84	-8,183.3	122.2	2,997.3	2,857.4	139.90	21.424	
18,900.0	10,559.0	21,865.5	13,538.0	142.4	145.3	-173.84	-8,283.3	122.8	2,997.3	2,855.9	141.43	21.192	
19,000.0	10,559.0	21,965.5	13,538.0	144.0	146.8	-173.84	-8,383.3	123.5	2,997.3	2,854.3	142.97	20.965	
19,100.0	10,559.0	22,065.5	13,538.0	145.6	148.4	-173.84	-8,483.3	124.2	2,997.3	2,852.8	144.51	20.742	
19,200.0	10,559.0	22,165.5	13,538.0	147.2	150.0	-173.84	-8,583.3	124.9	2,997.3	2,851.2	146.04	20.523	
19,300.0	10,559.0	22,265.5	13,538.0	148.7	151.5	-173.84	-8,683.3	125.6	2,997.3	2,849.7	147.58	20.309	

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 #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 #241H - Wellbore #1 - BLM Plan #1

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 usft

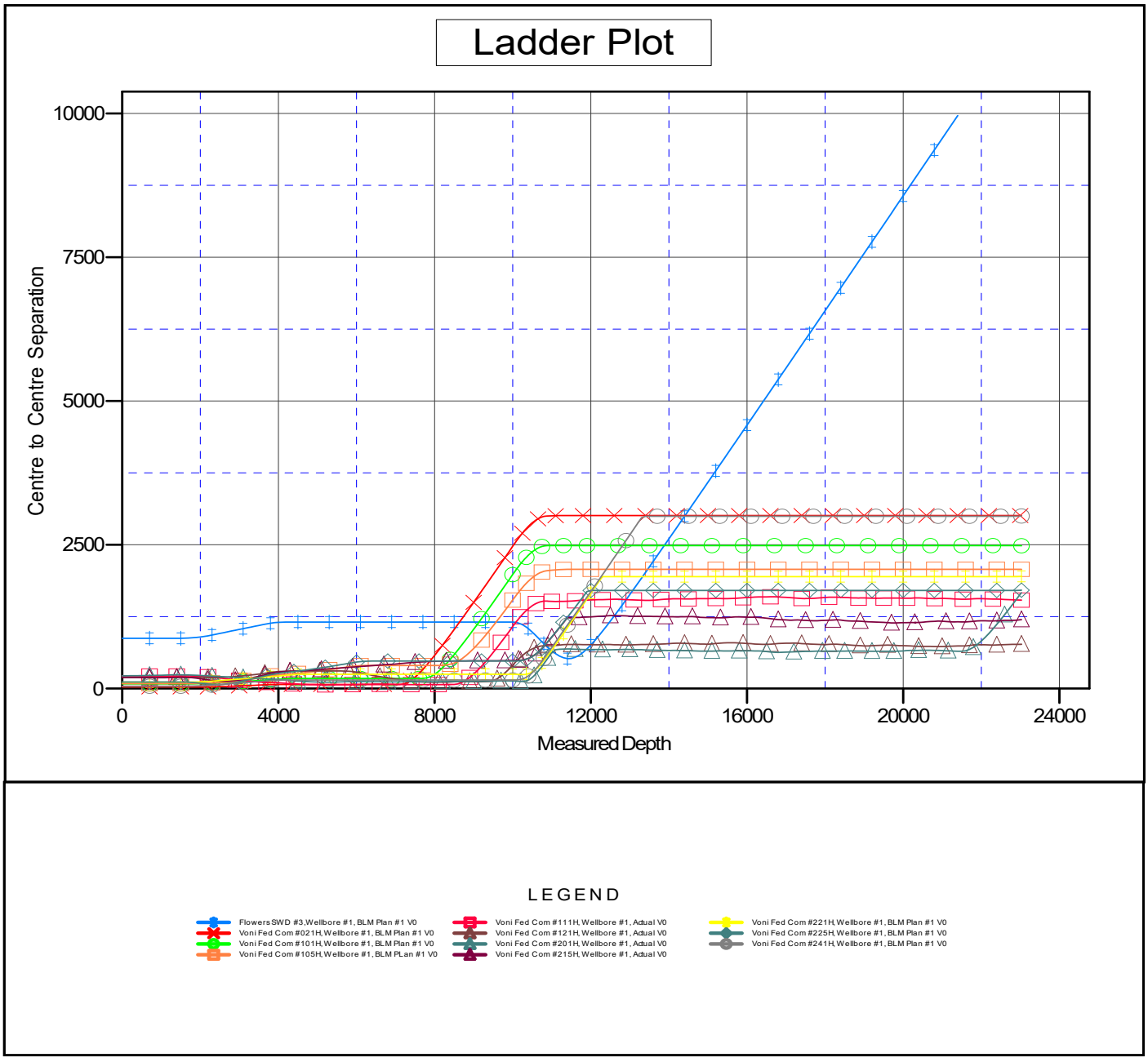
Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,400.0	10,559.0	22,365.5	13,538.0	150.3	153.1	-173.84	-8,783.3	126.3	2,997.3	2,848.2	149.12	20.100	
19,500.0	10,559.0	22,465.5	13,538.0	151.9	154.7	-173.84	-8,883.3	127.0	2,997.3	2,846.6	150.66	19.894	
19,600.0	10,559.0	22,565.5	13,538.0	153.6	156.2	-173.84	-8,983.3	127.7	2,997.3	2,845.1	152.20	19.693	
19,700.0	10,559.0	22,665.5	13,538.0	155.2	157.8	-173.84	-9,083.3	128.4	2,997.3	2,843.5	153.75	19.495	
19,800.0	10,559.0	22,765.5	13,538.0	156.8	159.4	-173.84	-9,183.3	129.1	2,997.3	2,842.0	155.29	19.301	
19,900.0	10,559.0	22,865.5	13,538.0	158.4	160.9	-173.84	-9,283.3	129.8	2,997.3	2,840.4	156.84	19.111	
20,000.0	10,559.0	22,965.5	13,538.0	160.0	162.5	-173.84	-9,383.3	130.5	2,997.3	2,838.9	158.38	18.924	
20,100.0	10,559.0	23,065.5	13,538.0	161.6	164.1	-173.84	-9,483.3	131.2	2,997.3	2,837.4	159.93	18.741	
20,200.0	10,559.0	23,165.5	13,538.0	163.2	165.7	-173.84	-9,583.3	131.9	2,997.3	2,835.8	161.48	18.561	
20,300.0	10,559.0	23,265.5	13,538.0	164.8	167.3	-173.84	-9,683.3	132.6	2,997.3	2,834.3	163.03	18.385	
20,400.0	10,559.0	23,365.5	13,538.0	166.4	168.9	-173.84	-9,783.3	133.3	2,997.3	2,832.7	164.58	18.212	
20,500.0	10,559.0	23,465.5	13,538.0	168.0	170.4	-173.84	-9,883.3	133.9	2,997.3	2,831.1	166.13	18.041	
20,600.0	10,559.0	23,565.5	13,538.0	169.6	172.0	-173.84	-9,983.3	134.6	2,997.3	2,829.6	167.69	17.874	
20,700.0	10,559.0	23,665.5	13,538.0	171.2	173.6	-173.84	-10,083.3	135.3	2,997.3	2,828.0	169.24	17.710	
20,800.0	10,559.0	23,765.5	13,538.0	172.8	175.2	-173.84	-10,183.3	136.0	2,997.3	2,826.5	170.79	17.549	
20,900.0	10,559.0	23,865.5	13,538.0	174.5	176.8	-173.84	-10,283.3	136.7	2,997.3	2,824.9	172.35	17.391	
21,000.0	10,559.0	23,965.5	13,538.0	176.1	178.4	-173.84	-10,383.3	137.4	2,997.3	2,823.4	173.90	17.235	
21,100.0	10,559.0	24,065.5	13,538.0	177.7	180.0	-173.84	-10,483.3	138.1	2,997.3	2,821.8	175.46	17.082	
21,200.0	10,559.0	24,165.5	13,538.0	179.3	181.6	-173.84	-10,583.3	138.8	2,997.3	2,820.3	177.02	16.932	
21,300.0	10,559.0	24,265.5	13,538.0	180.9	183.2	-173.84	-10,683.3	139.5	2,997.3	2,818.7	178.58	16.784	
21,400.0	10,559.0	24,365.5	13,538.0	182.5	184.8	-173.84	-10,783.3	140.2	2,997.3	2,817.1	180.14	16.639	
21,500.0	10,559.0	24,465.5	13,538.0	184.2	186.3	-173.85	-10,883.3	140.9	2,997.3	2,815.6	181.70	16.496	
21,600.0	10,559.0	24,565.5	13,538.0	185.8	187.9	-173.85	-10,983.3	141.6	2,997.3	2,814.0	183.26	16.356	
21,700.0	10,559.0	24,665.5	13,538.0	187.4	189.5	-173.85	-11,083.3	142.3	2,997.3	2,812.5	184.82	16.218	
21,800.0	10,559.0	24,765.5	13,538.0	189.0	191.1	-173.85	-11,183.2	143.0	2,997.3	2,810.9	186.38	16.082	
21,900.0	10,559.0	24,865.5	13,538.0	190.6	192.7	-173.85	-11,283.2	143.7	2,997.3	2,809.3	187.94	15.948	
22,000.0	10,559.0	24,965.5	13,538.0	192.3	194.3	-173.85	-11,383.2	144.4	2,997.3	2,807.8	189.50	15.817	
22,100.0	10,559.0	25,065.5	13,538.0	193.9	195.9	-173.85	-11,483.2	145.0	2,997.3	2,806.2	191.07	15.687	
22,200.0	10,559.0	25,165.5	13,538.0	195.5	197.5	-173.85	-11,583.2	145.7	2,997.3	2,804.6	192.63	15.560	
22,300.0	10,559.0	25,265.5	13,538.0	197.1	199.1	-173.85	-11,683.2	146.4	2,997.3	2,803.1	194.20	15.434	
22,400.0	10,559.0	25,365.5	13,538.0	198.7	200.8	-173.85	-11,783.2	147.1	2,997.3	2,801.5	195.76	15.311	
22,500.0	10,559.0	25,465.5	13,538.0	200.4	202.4	-173.85	-11,883.2	147.8	2,997.3	2,799.9	197.33	15.189	
22,600.0	10,559.0	25,565.5	13,538.0	202.0	204.0	-173.85	-11,983.2	148.5	2,997.3	2,798.4	198.89	15.070	
22,700.0	10,559.0	25,665.5	13,538.0	203.6	205.6	-173.85	-12,083.2	149.2	2,997.3	2,796.8	200.46	14.952	
22,800.0	10,559.0	25,765.5	13,538.0	205.2	207.2	-173.85	-12,183.2	149.9	2,997.3	2,795.2	202.03	14.836	
22,892.5	10,559.0	25,858.0	13,538.0	206.7	208.7	-173.85	-12,275.7	150.5	2,997.3	2,793.8	203.48	14.730	
22,900.0	10,559.0	25,853.0	13,538.0	206.9	208.6	-173.85	-12,270.8	150.5	2,997.3	2,793.8	203.45	14.732	
23,000.0	10,559.0	25,853.0	13,538.0	208.5	208.6	-173.85	-12,270.8	150.5	2,999.4	2,795.6	203.76	14.720	
23,028.2	10,559.0	25,853.0	13,538.0	208.9	208.6	-173.85	-12,270.8	150.5	3,000.6	2,796.7	203.82	14.722	
23,028.8	10,559.0	25,853.0	13,538.0	209.0	208.6	-173.85	-12,270.8	150.5	3,000.6	2,796.7	203.91	14.716	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 @ 3221.5usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Voni Fed Com #131H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.29°

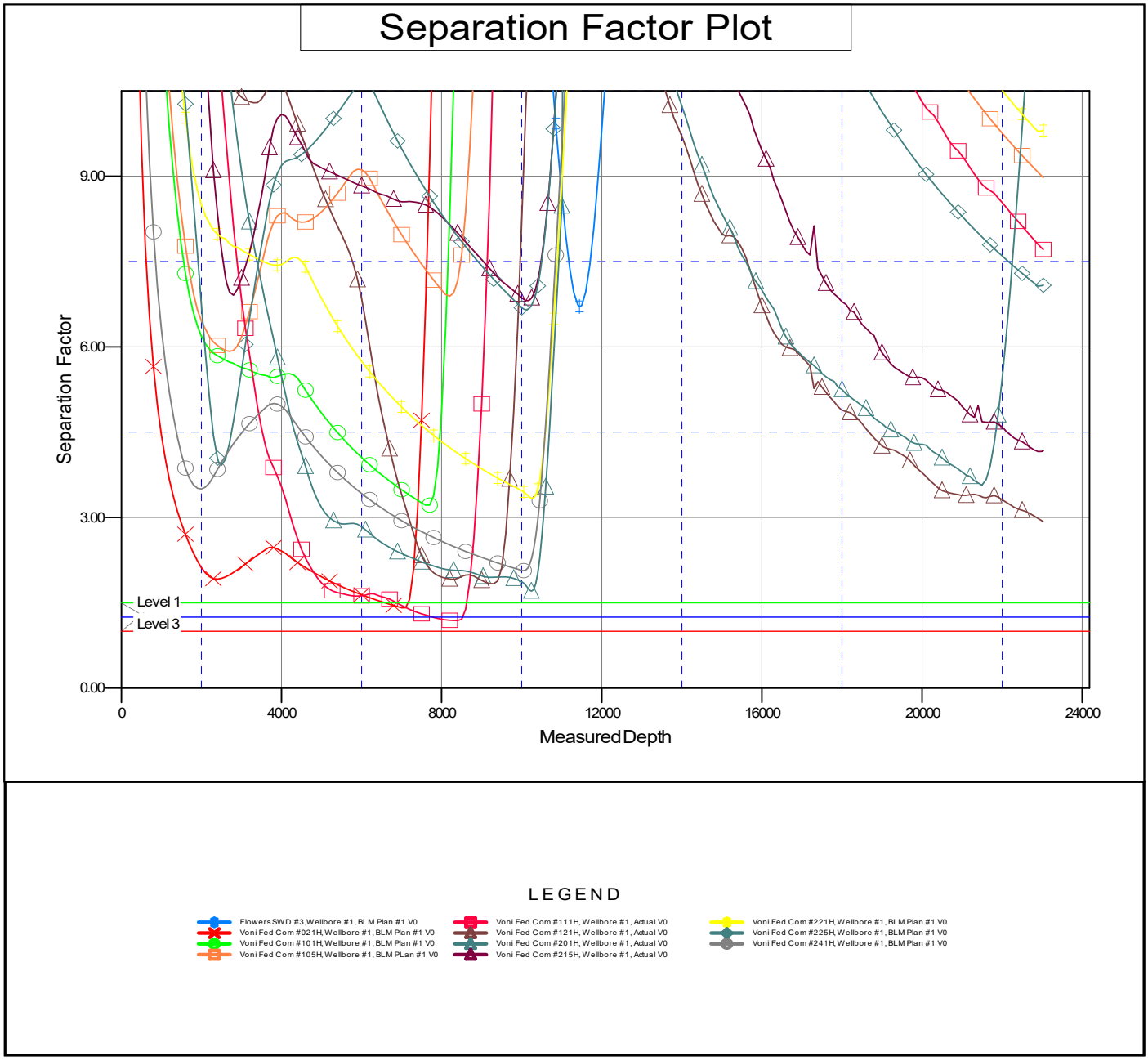


Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Voni Fed Com #131H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3221.5usft
Reference Site:	Voni	**MD Reference:**	KB @ 3221.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Voni Fed Com #131H	**Survey 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 @ 3221.5usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Voni Fed Com #131H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.29°



Company: Matador Production Company
Well: Voni Fed Com #131H
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 6.35°
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°

T G M

Azimuths to Grid North
True North: -0.29°
Magnetic North: 6.35°

Magnetic Field
Strength: 47426.4snT
Dip Angle: 59.81°
Date: 2/24/2021
Model: IGRF2015

SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
0.0	23028.2	BLM Plan #2 (Wellbore #1)	MWD

WELL DETAILS: Voni Fed Com #131H

GL @ 3193.0 KB @ 3221.5usft

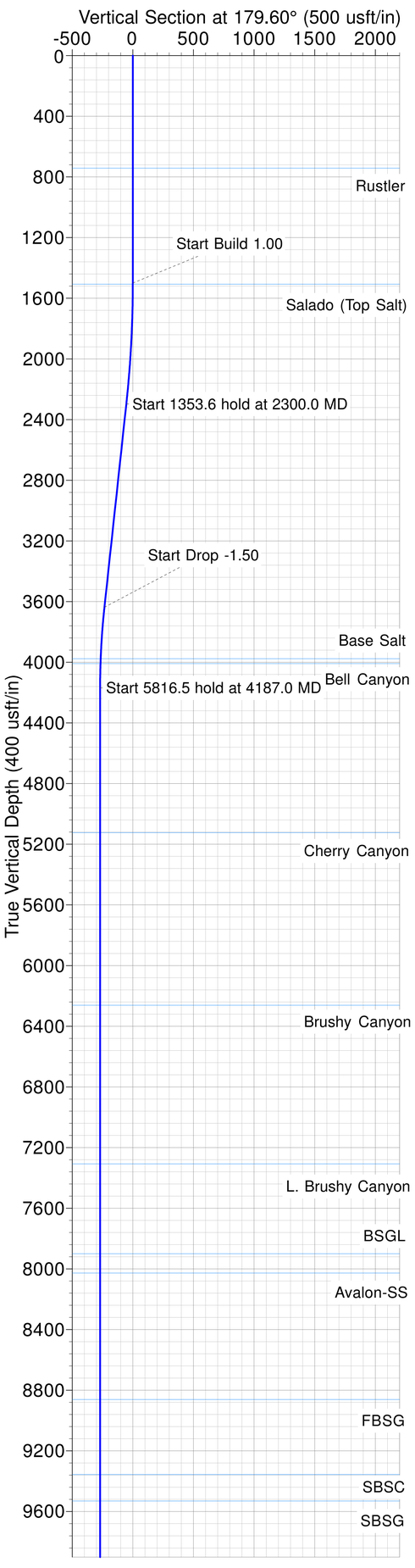
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.0	0.0	376683.06	668548.50	32° 2' 4.019 N	103° 47' 21.909 W	

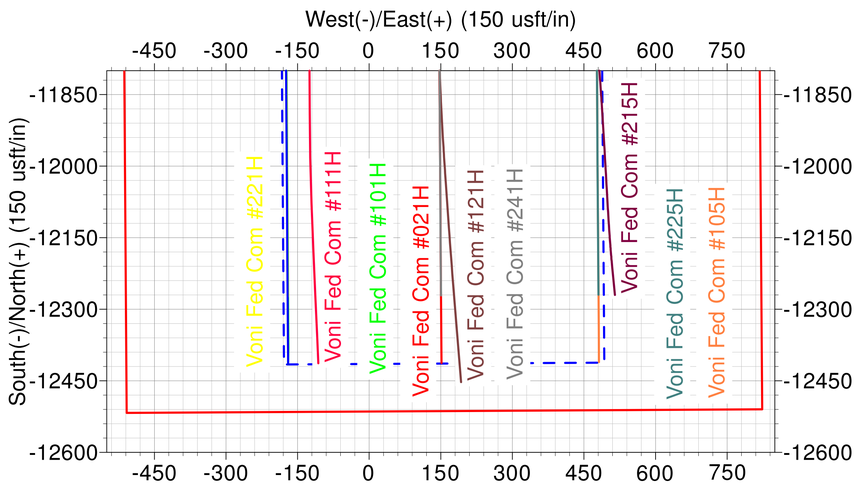
DESIGN TARGET DETAILS

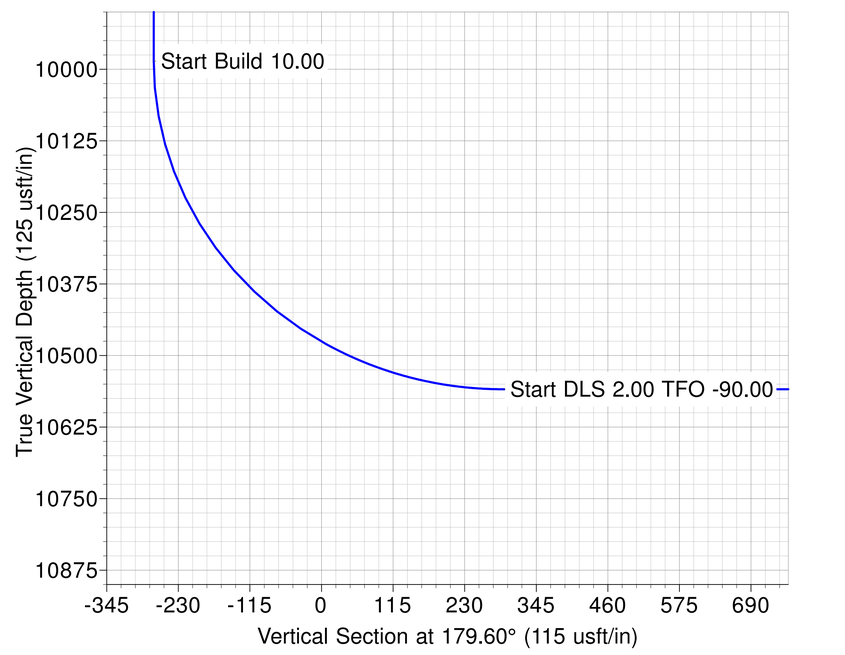
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
VP - Voni Fed Com #131H	9986.0	269.0	-82.5	376952.00	668466.00	32° 2' 6.684 N	103° 47' 22.852 W
BHL - Voni Fed Com #131H	10559.0	-12413.6	-169.8	364268.47	668378.67	32° 0' 1.169 N	103° 47' 24.607 W

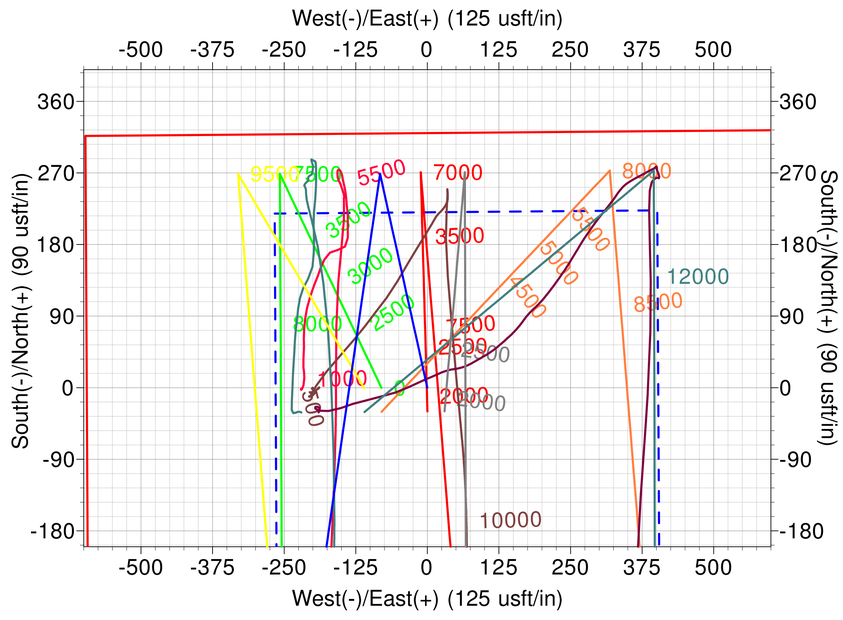
SECTION DETAILS

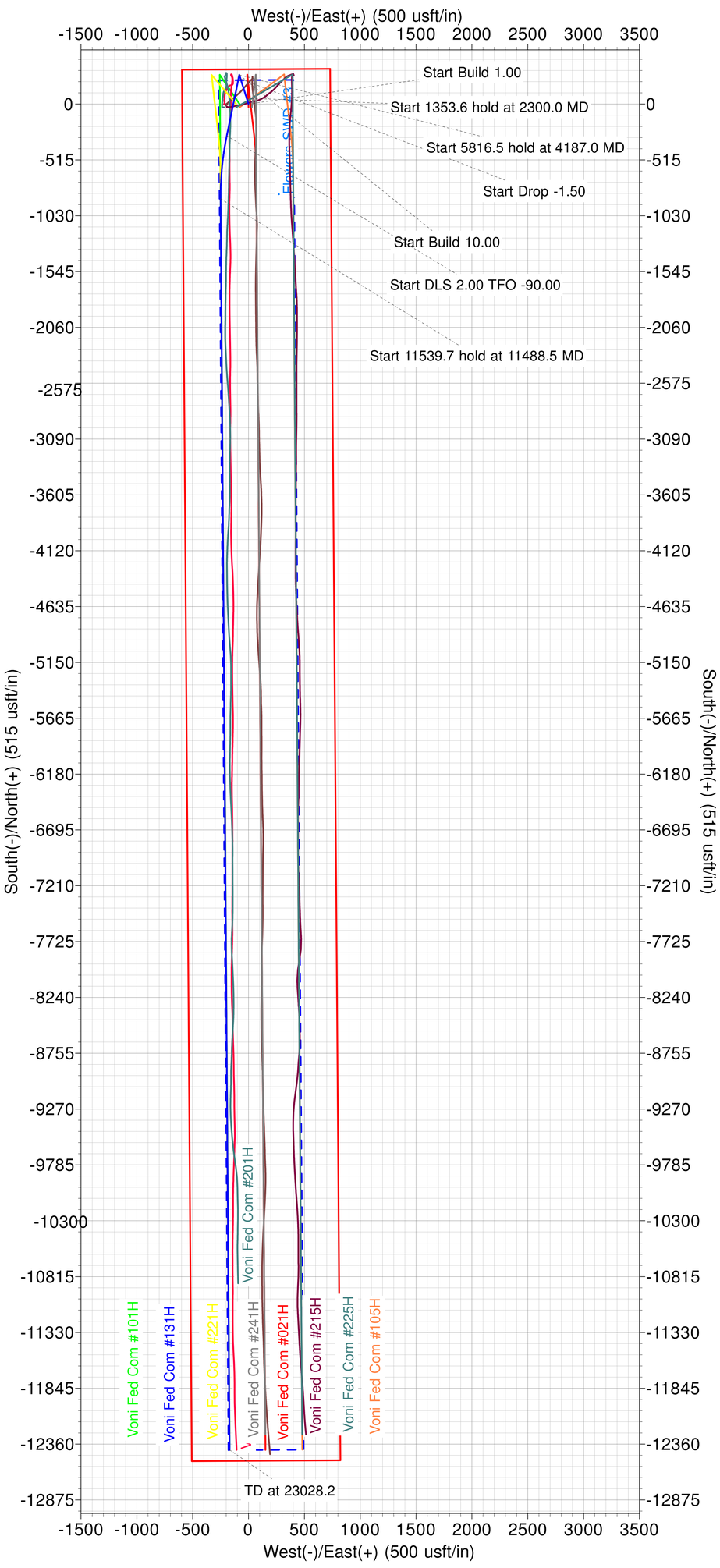
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	Start Build 1.00
2300.0	8.00	342.95	2297.4	53.3	-16.4	1.00	342.95	-53.4	Start 1353.6 hold at 2300.0 MD
3653.6	8.00	342.95	3637.9	233.4	-71.6	0.00	0.00	-233.9	Start Drop -1.50
4187.0	0.00	0.00	4169.5	269.0	-82.5	1.50	180.00	-269.5	Start 5816.5 hold at 4187.0 MD
10003.5	0.00	0.00	9986.0	269.0	-82.5	0.00	0.00	-269.5	Start Build 10.00
10903.5	90.00	191.30	10559.0	-292.9	-194.8	10.00	191.30	291.5	Start DLS 2.00 TFO -90.00
11488.5	90.00	179.60	10559.0	-874.2	-250.2	2.00	-90.00	872.4	Start 11539.7 hold at 11488.5 MD
23028.2	90.00	179.60	10559.0	-12413.6	-169.8	0.00	0.00	12412.1	TD at 23028.2

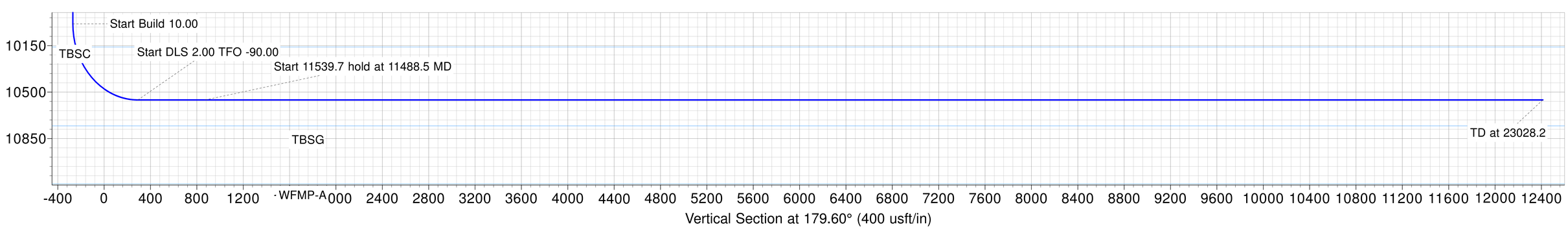












Matador Production Company

Rustler Breaks
Voni
Voni Fed Com #131H

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 #131H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3221.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3221.5usft
Site:	Voni	**North Reference:**	Grid
Well:	Voni Fed Com #131H	**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 #131H

Well Position	**+N/-S**	31.3 usft	**Northing:**	376,683.06 usft	**Latitude:**	32° 2' 4.019 N
	+E/-W	249.9 usft	**Easting:**	668,548.51 usft	**Longitude:**	103° 47' 21.909 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,193.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/24/2021	6.64	59.81	47,426.41072769

Design BLM Plan #2

Audit Notes:

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

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.60

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

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	23,028.2	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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,300.0	8.00	342.95	2,297.4	53.3	-16.4	1.00	1.00	0.00	342.95	
3,653.6	8.00	342.95	3,637.9	233.4	-71.6	0.00	0.00	0.00	0.00	
4,187.0	0.00	0.00	4,169.5	269.0	-82.5	1.50	-1.50	0.00	180.00	
10,003.5	0.00	0.00	9,986.0	269.0	-82.5	0.00	0.00	0.00	0.00	VP - Voni Fed Com #1
10,903.5	90.00	191.30	10,559.0	-292.9	-194.8	10.00	10.00	0.00	191.30	
11,488.5	90.00	179.60	10,559.0	-874.2	-250.2	2.00	0.00	-2.00	-90.00	
23,028.2	90.00	179.60	10,559.0	-12,413.6	-169.8	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 #131H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3221.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3221.5usft
Site:	Voni	**North Reference:**	Grid
Well:	Voni Fed Com #131H	**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
742.2	0.00	0.00	742.2	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 1.00									
1,507.1	0.07	342.95	1,507.1	0.0	0.0	0.0	1.00	1.00	0.00
Salado (Top Salt)									
1,600.0	1.00	342.95	1,600.0	0.8	-0.3	-0.8	1.00	1.00	0.00
1,700.0	2.00	342.95	1,700.0	3.3	-1.0	-3.3	1.00	1.00	0.00
1,800.0	3.00	342.95	1,799.9	7.5	-2.3	-7.5	1.00	1.00	0.00
1,900.0	4.00	342.95	1,899.7	13.3	-4.1	-13.4	1.00	1.00	0.00
2,000.0	5.00	342.95	1,999.4	20.8	-6.4	-20.9	1.00	1.00	0.00
2,100.0	6.00	342.95	2,098.9	30.0	-9.2	-30.1	1.00	1.00	0.00
2,200.0	7.00	342.95	2,198.3	40.8	-12.5	-40.9	1.00	1.00	0.00
2,300.0	8.00	342.95	2,297.4	53.3	-16.4	-53.4	1.00	1.00	0.00
Start 1353.6 hold at 2300.0 MD									
2,400.0	8.00	342.95	2,396.4	66.6	-20.4	-66.8	0.00	0.00	0.00
2,500.0	8.00	342.95	2,495.5	79.9	-24.5	-80.1	0.00	0.00	0.00
2,600.0	8.00	342.95	2,594.5	93.2	-28.6	-93.4	0.00	0.00	0.00
2,700.0	8.00	342.95	2,693.5	106.5	-32.7	-106.8	0.00	0.00	0.00
2,800.0	8.00	342.95	2,792.5	119.8	-36.8	-120.1	0.00	0.00	0.00
2,900.0	8.00	342.95	2,891.6	133.1	-40.8	-133.4	0.00	0.00	0.00
3,000.0	8.00	342.95	2,990.6	146.4	-44.9	-146.8	0.00	0.00	0.00
3,100.0	8.00	342.95	3,089.6	159.8	-49.0	-160.1	0.00	0.00	0.00
3,200.0	8.00	342.95	3,188.6	173.1	-53.1	-173.4	0.00	0.00	0.00
3,300.0	8.00	342.95	3,287.7	186.4	-57.2	-186.8	0.00	0.00	0.00
3,400.0	8.00	342.95	3,386.7	199.7	-61.3	-200.1	0.00	0.00	0.00
3,500.0	8.00	342.95	3,485.7	213.0	-65.3	-213.4	0.00	0.00	0.00
3,600.0	8.00	342.95	3,584.8	226.3	-69.4	-226.8	0.00	0.00	0.00
3,653.6	8.00	342.95	3,637.9	233.4	-71.6	-233.9	0.00	0.00	0.00
Start Drop -1.50									
3,700.0	7.30	342.95	3,683.8	239.3	-73.4	-239.8	1.50	-1.50	0.00
3,800.0	5.80	342.95	3,783.2	250.2	-76.8	-250.8	1.50	-1.50	0.00
3,900.0	4.30	342.95	3,882.8	258.7	-79.3	-259.2	1.50	-1.50	0.00
3,994.1	2.89	342.95	3,976.7	264.3	-81.1	-264.9	1.50	-1.50	0.00
Base Salt									
4,000.0	2.80	342.95	3,982.6	264.6	-81.2	-265.1	1.50	-1.50	0.00
4,026.0	2.41	342.95	4,008.6	265.7	-81.5	-266.3	1.50	-1.50	0.00
Bell Canyon									

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Voni Fed Com #131H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3221.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3221.5usft
Site:	Voni	**North Reference:**	Grid
Well:	Voni Fed Com #131H	**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)
4,100.0	1.30	342.95	4,082.5	268.0	-82.2	-268.6	1.50	-1.50	0.00
4,187.0	0.00	0.00	4,169.5	269.0	-82.5	-269.5	1.50	-1.50	0.00
Start 5816.5 hold at 4187.0 MD									
4,200.0	0.00	0.00	4,182.5	269.0	-82.5	-269.5	0.00	0.00	0.00
4,300.0	0.00	0.00	4,282.5	269.0	-82.5	-269.5	0.00	0.00	0.00
4,400.0	0.00	0.00	4,382.5	269.0	-82.5	-269.5	0.00	0.00	0.00
4,500.0	0.00	0.00	4,482.5	269.0	-82.5	-269.5	0.00	0.00	0.00
4,600.0	0.00	0.00	4,582.5	269.0	-82.5	-269.5	0.00	0.00	0.00
4,700.0	0.00	0.00	4,682.5	269.0	-82.5	-269.5	0.00	0.00	0.00
4,800.0	0.00	0.00	4,782.5	269.0	-82.5	-269.5	0.00	0.00	0.00
4,900.0	0.00	0.00	4,882.5	269.0	-82.5	-269.5	0.00	0.00	0.00
5,000.0	0.00	0.00	4,982.5	269.0	-82.5	-269.5	0.00	0.00	0.00
5,100.0	0.00	0.00	5,082.5	269.0	-82.5	-269.5	0.00	0.00	0.00
5,141.3	0.00	0.00	5,123.8	269.0	-82.5	-269.5	0.00	0.00	0.00
Cherry Canyon									
5,200.0	0.00	0.00	5,182.5	269.0	-82.5	-269.5	0.00	0.00	0.00
5,300.0	0.00	0.00	5,282.5	269.0	-82.5	-269.5	0.00	0.00	0.00
5,400.0	0.00	0.00	5,382.5	269.0	-82.5	-269.5	0.00	0.00	0.00
5,500.0	0.00	0.00	5,482.5	269.0	-82.5	-269.5	0.00	0.00	0.00
5,600.0	0.00	0.00	5,582.5	269.0	-82.5	-269.5	0.00	0.00	0.00
5,700.0	0.00	0.00	5,682.5	269.0	-82.5	-269.5	0.00	0.00	0.00
5,800.0	0.00	0.00	5,782.5	269.0	-82.5	-269.5	0.00	0.00	0.00
5,900.0	0.00	0.00	5,882.5	269.0	-82.5	-269.5	0.00	0.00	0.00
6,000.0	0.00	0.00	5,982.5	269.0	-82.5	-269.5	0.00	0.00	0.00
6,100.0	0.00	0.00	6,082.5	269.0	-82.5	-269.5	0.00	0.00	0.00
6,200.0	0.00	0.00	6,182.5	269.0	-82.5	-269.5	0.00	0.00	0.00
6,279.5	0.00	0.00	6,262.0	269.0	-82.5	-269.5	0.00	0.00	0.00
Brushy Canyon									
6,300.0	0.00	0.00	6,282.5	269.0	-82.5	-269.5	0.00	0.00	0.00
6,400.0	0.00	0.00	6,382.5	269.0	-82.5	-269.5	0.00	0.00	0.00
6,500.0	0.00	0.00	6,482.5	269.0	-82.5	-269.5	0.00	0.00	0.00
6,600.0	0.00	0.00	6,582.5	269.0	-82.5	-269.5	0.00	0.00	0.00
6,700.0	0.00	0.00	6,682.5	269.0	-82.5	-269.5	0.00	0.00	0.00
6,800.0	0.00	0.00	6,782.5	269.0	-82.5	-269.5	0.00	0.00	0.00
6,900.0	0.00	0.00	6,882.5	269.0	-82.5	-269.5	0.00	0.00	0.00
7,000.0	0.00	0.00	6,982.5	269.0	-82.5	-269.5	0.00	0.00	0.00
7,100.0	0.00	0.00	7,082.5	269.0	-82.5	-269.5	0.00	0.00	0.00
7,200.0	0.00	0.00	7,182.5	269.0	-82.5	-269.5	0.00	0.00	0.00
7,300.0	0.00	0.00	7,282.5	269.0	-82.5	-269.5	0.00	0.00	0.00
7,324.9	0.00	0.00	7,307.4	269.0	-82.5	-269.5	0.00	0.00	0.00
L. Brushy Canyon									
7,400.0	0.00	0.00	7,382.5	269.0	-82.5	-269.5	0.00	0.00	0.00
7,500.0	0.00	0.00	7,482.5	269.0	-82.5	-269.5	0.00	0.00	0.00
7,600.0	0.00	0.00	7,582.5	269.0	-82.5	-269.5	0.00	0.00	0.00
7,700.0	0.00	0.00	7,682.5	269.0	-82.5	-269.5	0.00	0.00	0.00
7,800.0	0.00	0.00	7,782.5	269.0	-82.5	-269.5	0.00	0.00	0.00
7,900.0	0.00	0.00	7,882.5	269.0	-82.5	-269.5	0.00	0.00	0.00
7,917.8	0.00	0.00	7,900.3	269.0	-82.5	-269.5	0.00	0.00	0.00
BSGL									
8,000.0	0.00	0.00	7,982.5	269.0	-82.5	-269.5	0.00	0.00	0.00
8,044.7	0.00	0.00	8,027.2	269.0	-82.5	-269.5	0.00	0.00	0.00
Avalon-SS									
8,100.0	0.00	0.00	8,082.5	269.0	-82.5	-269.5	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Voni Fed Com #131H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3221.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3221.5usft
Site:	Voni	**North Reference:**	Grid
Well:	Voni Fed Com #131H	**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	8,182.5	269.0	-82.5	-269.5	0.00	0.00	0.00
8,300.0	0.00	0.00	8,282.5	269.0	-82.5	-269.5	0.00	0.00	0.00
8,400.0	0.00	0.00	8,382.5	269.0	-82.5	-269.5	0.00	0.00	0.00
8,500.0	0.00	0.00	8,482.5	269.0	-82.5	-269.5	0.00	0.00	0.00
8,600.0	0.00	0.00	8,582.5	269.0	-82.5	-269.5	0.00	0.00	0.00
8,700.0	0.00	0.00	8,682.5	269.0	-82.5	-269.5	0.00	0.00	0.00
8,800.0	0.00	0.00	8,782.5	269.0	-82.5	-269.5	0.00	0.00	0.00
8,878.9	0.00	0.00	8,861.4	269.0	-82.5	-269.5	0.00	0.00	0.00
FBSG									
8,900.0	0.00	0.00	8,882.5	269.0	-82.5	-269.5	0.00	0.00	0.00
9,000.0	0.00	0.00	8,982.5	269.0	-82.5	-269.5	0.00	0.00	0.00
9,100.0	0.00	0.00	9,082.5	269.0	-82.5	-269.5	0.00	0.00	0.00
9,200.0	0.00	0.00	9,182.5	269.0	-82.5	-269.5	0.00	0.00	0.00
9,300.0	0.00	0.00	9,282.5	269.0	-82.5	-269.5	0.00	0.00	0.00
9,373.5	0.00	0.00	9,356.0	269.0	-82.5	-269.5	0.00	0.00	0.00
SBSC									
9,400.0	0.00	0.00	9,382.5	269.0	-82.5	-269.5	0.00	0.00	0.00
9,500.0	0.00	0.00	9,482.5	269.0	-82.5	-269.5	0.00	0.00	0.00
9,547.9	0.00	0.00	9,530.4	269.0	-82.5	-269.5	0.00	0.00	0.00
SBSG									
9,600.0	0.00	0.00	9,582.5	269.0	-82.5	-269.5	0.00	0.00	0.00
9,700.0	0.00	0.00	9,682.5	269.0	-82.5	-269.5	0.00	0.00	0.00
9,800.0	0.00	0.00	9,782.5	269.0	-82.5	-269.5	0.00	0.00	0.00
9,900.0	0.00	0.00	9,882.5	269.0	-82.5	-269.5	0.00	0.00	0.00
10,000.0	0.00	0.00	9,982.5	269.0	-82.5	-269.5	0.00	0.00	0.00
10,003.5	0.00	0.00	9,986.0	269.0	-82.5	-269.5	0.00	0.00	0.00
Start Build 10.00 - VP - Voni Fed Com #131H									
10,100.0	9.65	191.30	10,082.0	261.0	-84.1	-261.6	10.00	10.00	0.00
10,180.3	17.68	191.30	10,160.0	242.4	-87.8	-243.0	10.00	10.00	0.00
TBSC									
10,200.0	19.65	191.30	10,178.7	236.2	-89.0	-236.9	10.00	10.00	0.00
10,300.0	29.65	191.30	10,269.4	195.4	-97.2	-196.1	10.00	10.00	0.00
10,400.0	39.65	191.30	10,351.6	139.7	-108.3	-140.5	10.00	10.00	0.00
10,500.0	49.65	191.30	10,422.7	70.9	-122.1	-71.7	10.00	10.00	0.00
10,600.0	59.65	191.30	10,480.4	-9.0	-138.0	8.0	10.00	10.00	0.00
10,700.0	69.65	191.30	10,523.2	-97.5	-155.7	96.4	10.00	10.00	0.00
10,800.0	79.65	191.30	10,549.6	-192.0	-174.6	190.7	10.00	10.00	0.00
10,900.0	89.65	191.30	10,558.9	-289.5	-194.1	288.1	10.00	10.00	0.00
10,903.5	90.00	191.30	10,559.0	-292.9	-194.8	291.5	10.00	10.00	0.00
Start DLS 2.00 TFO -90.00									
11,000.0	90.00	189.37	10,559.0	-387.8	-212.1	386.3	2.00	0.00	-2.00
11,100.0	90.00	187.37	10,559.0	-486.8	-226.6	485.2	2.00	0.00	-2.00
11,200.0	90.00	185.37	10,559.0	-586.1	-237.7	584.5	2.00	0.00	-2.00
11,300.0	90.00	183.37	10,559.0	-685.8	-245.4	684.1	2.00	0.00	-2.00
11,400.0	90.00	181.37	10,559.0	-785.7	-249.5	784.0	2.00	0.00	-2.00
11,488.5	90.00	179.60	10,559.0	-874.2	-250.2	872.4	2.00	0.00	-2.00
Start 11539.7 hold at 11488.5 MD									
11,500.0	90.00	179.60	10,559.0	-885.7	-250.2	884.0	0.00	0.00	0.00
11,600.0	90.00	179.60	10,559.0	-985.7	-249.5	984.0	0.00	0.00	0.00
11,700.0	90.00	179.60	10,559.0	-1,085.7	-248.8	1,084.0	0.00	0.00	0.00
11,800.0	90.00	179.60	10,559.0	-1,185.7	-248.1	1,184.0	0.00	0.00	0.00
11,900.0	90.00	179.60	10,559.0	-1,285.7	-247.4	1,284.0	0.00	0.00	0.00
12,000.0	90.00	179.60	10,559.0	-1,385.7	-246.7	1,384.0	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Voni Fed Com #131H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3221.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3221.5usft
Site:	Voni	**North Reference:**	Grid
Well:	Voni Fed Com #131H	**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	179.60	10,559.0	-1,485.7	-246.0	1,484.0	0.00	0.00	0.00
12,200.0	90.00	179.60	10,559.0	-1,585.7	-245.3	1,584.0	0.00	0.00	0.00
12,300.0	90.00	179.60	10,559.0	-1,685.7	-244.6	1,684.0	0.00	0.00	0.00
12,400.0	90.00	179.60	10,559.0	-1,785.7	-243.9	1,784.0	0.00	0.00	0.00
12,500.0	90.00	179.60	10,559.0	-1,885.7	-243.2	1,884.0	0.00	0.00	0.00
12,600.0	90.00	179.60	10,559.0	-1,985.7	-242.5	1,984.0	0.00	0.00	0.00
12,700.0	90.00	179.60	10,559.0	-2,085.7	-241.8	2,084.0	0.00	0.00	0.00
12,800.0	90.00	179.60	10,559.0	-2,185.7	-241.1	2,184.0	0.00	0.00	0.00
12,900.0	90.00	179.60	10,559.0	-2,285.7	-240.4	2,284.0	0.00	0.00	0.00
13,000.0	90.00	179.60	10,559.0	-2,385.7	-239.7	2,384.0	0.00	0.00	0.00
13,100.0	90.00	179.60	10,559.0	-2,485.7	-239.0	2,484.0	0.00	0.00	0.00
13,200.0	90.00	179.60	10,559.0	-2,585.7	-238.3	2,584.0	0.00	0.00	0.00
13,300.0	90.00	179.60	10,559.0	-2,685.7	-237.6	2,684.0	0.00	0.00	0.00
13,400.0	90.00	179.60	10,559.0	-2,785.7	-236.9	2,784.0	0.00	0.00	0.00
13,500.0	90.00	179.60	10,559.0	-2,885.7	-236.2	2,884.0	0.00	0.00	0.00
13,600.0	90.00	179.60	10,559.0	-2,985.7	-235.5	2,984.0	0.00	0.00	0.00
13,700.0	90.00	179.60	10,559.0	-3,085.7	-234.8	3,084.0	0.00	0.00	0.00
13,800.0	90.00	179.60	10,559.0	-3,185.7	-234.1	3,184.0	0.00	0.00	0.00
13,900.0	90.00	179.60	10,559.0	-3,285.7	-233.4	3,284.0	0.00	0.00	0.00
14,000.0	90.00	179.60	10,559.0	-3,385.7	-232.7	3,384.0	0.00	0.00	0.00
14,100.0	90.00	179.60	10,559.0	-3,485.7	-232.0	3,484.0	0.00	0.00	0.00
14,200.0	90.00	179.60	10,559.0	-3,585.7	-231.3	3,584.0	0.00	0.00	0.00
14,300.0	90.00	179.60	10,559.0	-3,685.7	-230.6	3,684.0	0.00	0.00	0.00
14,400.0	90.00	179.60	10,559.0	-3,785.7	-230.0	3,784.0	0.00	0.00	0.00
14,500.0	90.00	179.60	10,559.0	-3,885.7	-229.3	3,884.0	0.00	0.00	0.00
14,600.0	90.00	179.60	10,559.0	-3,985.7	-228.6	3,984.0	0.00	0.00	0.00
14,700.0	90.00	179.60	10,559.0	-4,085.7	-227.9	4,084.0	0.00	0.00	0.00
14,800.0	90.00	179.60	10,559.0	-4,185.7	-227.2	4,184.0	0.00	0.00	0.00
14,900.0	90.00	179.60	10,559.0	-4,285.7	-226.5	4,284.0	0.00	0.00	0.00
15,000.0	90.00	179.60	10,559.0	-4,385.7	-225.8	4,384.0	0.00	0.00	0.00
15,100.0	90.00	179.60	10,559.0	-4,485.7	-225.1	4,484.0	0.00	0.00	0.00
15,200.0	90.00	179.60	10,559.0	-4,585.6	-224.4	4,584.0	0.00	0.00	0.00
15,300.0	90.00	179.60	10,559.0	-4,685.6	-223.7	4,684.0	0.00	0.00	0.00
15,400.0	90.00	179.60	10,559.0	-4,785.6	-223.0	4,784.0	0.00	0.00	0.00
15,500.0	90.00	179.60	10,559.0	-4,885.6	-222.3	4,884.0	0.00	0.00	0.00
15,600.0	90.00	179.60	10,559.0	-4,985.6	-221.6	4,984.0	0.00	0.00	0.00
15,700.0	90.00	179.60	10,559.0	-5,085.6	-220.9	5,084.0	0.00	0.00	0.00
15,800.0	90.00	179.60	10,559.0	-5,185.6	-220.2	5,184.0	0.00	0.00	0.00
15,900.0	90.00	179.60	10,559.0	-5,285.6	-219.5	5,284.0	0.00	0.00	0.00
16,000.0	90.00	179.60	10,559.0	-5,385.6	-218.8	5,384.0	0.00	0.00	0.00
16,100.0	90.00	179.60	10,559.0	-5,485.6	-218.1	5,484.0	0.00	0.00	0.00
16,200.0	90.00	179.60	10,559.0	-5,585.6	-217.4	5,584.0	0.00	0.00	0.00
16,300.0	90.00	179.60	10,559.0	-5,685.6	-216.7	5,684.0	0.00	0.00	0.00
16,400.0	90.00	179.60	10,559.0	-5,785.6	-216.0	5,784.0	0.00	0.00	0.00
16,500.0	90.00	179.60	10,559.0	-5,885.6	-215.3	5,884.0	0.00	0.00	0.00
16,600.0	90.00	179.60	10,559.0	-5,985.6	-214.6	5,984.0	0.00	0.00	0.00
16,700.0	90.00	179.60	10,559.0	-6,085.6	-213.9	6,084.0	0.00	0.00	0.00
16,800.0	90.00	179.60	10,559.0	-6,185.6	-213.2	6,184.0	0.00	0.00	0.00
16,900.0	90.00	179.60	10,559.0	-6,285.6	-212.5	6,284.0	0.00	0.00	0.00
17,000.0	90.00	179.60	10,559.0	-6,385.6	-211.8	6,384.0	0.00	0.00	0.00
17,100.0	90.00	179.60	10,559.0	-6,485.6	-211.1	6,484.0	0.00	0.00	0.00
17,200.0	90.00	179.60	10,559.0	-6,585.6	-210.4	6,584.0	0.00	0.00	0.00
17,300.0	90.00	179.60	10,559.0	-6,685.6	-209.7	6,684.0	0.00	0.00	0.00
17,400.0	90.00	179.60	10,559.0	-6,785.6	-209.0	6,784.0	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Voni Fed Com #131H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3221.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3221.5usft
Site:	Voni	**North Reference:**	Grid
Well:	Voni Fed Com #131H	**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	179.60	10,559.0	-6,885.6	-208.3	6,884.0	0.00	0.00	0.00
17,600.0	90.00	179.60	10,559.0	-6,985.6	-207.7	6,984.0	0.00	0.00	0.00
17,700.0	90.00	179.60	10,559.0	-7,085.6	-207.0	7,084.0	0.00	0.00	0.00
17,800.0	90.00	179.60	10,559.0	-7,185.6	-206.3	7,184.0	0.00	0.00	0.00
17,900.0	90.00	179.60	10,559.0	-7,285.6	-205.6	7,284.0	0.00	0.00	0.00
18,000.0	90.00	179.60	10,559.0	-7,385.6	-204.9	7,384.0	0.00	0.00	0.00
18,100.0	90.00	179.60	10,559.0	-7,485.6	-204.2	7,484.0	0.00	0.00	0.00
18,200.0	90.00	179.60	10,559.0	-7,585.6	-203.5	7,584.0	0.00	0.00	0.00
18,300.0	90.00	179.60	10,559.0	-7,685.6	-202.8	7,684.0	0.00	0.00	0.00
18,400.0	90.00	179.60	10,559.0	-7,785.6	-202.1	7,784.0	0.00	0.00	0.00
18,500.0	90.00	179.60	10,559.0	-7,885.6	-201.4	7,884.0	0.00	0.00	0.00
18,600.0	90.00	179.60	10,559.0	-7,985.6	-200.7	7,984.0	0.00	0.00	0.00
18,700.0	90.00	179.60	10,559.0	-8,085.6	-200.0	8,084.0	0.00	0.00	0.00
18,800.0	90.00	179.60	10,559.0	-8,185.6	-199.3	8,184.0	0.00	0.00	0.00
18,900.0	90.00	179.60	10,559.0	-8,285.6	-198.6	8,284.0	0.00	0.00	0.00
19,000.0	90.00	179.60	10,559.0	-8,385.6	-197.9	8,384.0	0.00	0.00	0.00
19,100.0	90.00	179.60	10,559.0	-8,485.6	-197.2	8,484.0	0.00	0.00	0.00
19,200.0	90.00	179.60	10,559.0	-8,585.6	-196.5	8,584.0	0.00	0.00	0.00
19,300.0	90.00	179.60	10,559.0	-8,685.6	-195.8	8,684.0	0.00	0.00	0.00
19,400.0	90.00	179.60	10,559.0	-8,785.5	-195.1	8,784.0	0.00	0.00	0.00
19,500.0	90.00	179.60	10,559.0	-8,885.5	-194.4	8,884.0	0.00	0.00	0.00
19,600.0	90.00	179.60	10,559.0	-8,985.5	-193.7	8,984.0	0.00	0.00	0.00
19,700.0	90.00	179.60	10,559.0	-9,085.5	-193.0	9,084.0	0.00	0.00	0.00
19,800.0	90.00	179.60	10,559.0	-9,185.5	-192.3	9,184.0	0.00	0.00	0.00
19,900.0	90.00	179.60	10,559.0	-9,285.5	-191.6	9,284.0	0.00	0.00	0.00
20,000.0	90.00	179.60	10,559.0	-9,385.5	-190.9	9,384.0	0.00	0.00	0.00
20,100.0	90.00	179.60	10,559.0	-9,485.5	-190.2	9,484.0	0.00	0.00	0.00
20,200.0	90.00	179.60	10,559.0	-9,585.5	-189.5	9,584.0	0.00	0.00	0.00
20,300.0	90.00	179.60	10,559.0	-9,685.5	-188.8	9,684.0	0.00	0.00	0.00
20,400.0	90.00	179.60	10,559.0	-9,785.5	-188.1	9,784.0	0.00	0.00	0.00
20,500.0	90.00	179.60	10,559.0	-9,885.5	-187.4	9,884.0	0.00	0.00	0.00
20,600.0	90.00	179.60	10,559.0	-9,985.5	-186.7	9,984.0	0.00	0.00	0.00
20,700.0	90.00	179.60	10,559.0	-10,085.5	-186.0	10,084.0	0.00	0.00	0.00
20,800.0	90.00	179.60	10,559.0	-10,185.5	-185.3	10,184.0	0.00	0.00	0.00
20,900.0	90.00	179.60	10,559.0	-10,285.5	-184.7	10,284.0	0.00	0.00	0.00
21,000.0	90.00	179.60	10,559.0	-10,385.5	-184.0	10,384.0	0.00	0.00	0.00
21,100.0	90.00	179.60	10,559.0	-10,485.5	-183.3	10,484.0	0.00	0.00	0.00
21,200.0	90.00	179.60	10,559.0	-10,585.5	-182.6	10,584.0	0.00	0.00	0.00
21,300.0	90.00	179.60	10,559.0	-10,685.5	-181.9	10,684.0	0.00	0.00	0.00
21,400.0	90.00	179.60	10,559.0	-10,785.5	-181.2	10,784.0	0.00	0.00	0.00
21,500.0	90.00	179.60	10,559.0	-10,885.5	-180.5	10,884.0	0.00	0.00	0.00
21,600.0	90.00	179.60	10,559.0	-10,985.5	-179.8	10,984.0	0.00	0.00	0.00
21,700.0	90.00	179.60	10,559.0	-11,085.5	-179.1	11,084.0	0.00	0.00	0.00
21,800.0	90.00	179.60	10,559.0	-11,185.5	-178.4	11,184.0	0.00	0.00	0.00
21,900.0	90.00	179.60	10,559.0	-11,285.5	-177.7	11,284.0	0.00	0.00	0.00
22,000.0	90.00	179.60	10,559.0	-11,385.5	-177.0	11,384.0	0.00	0.00	0.00
22,100.0	90.00	179.60	10,559.0	-11,485.5	-176.3	11,484.0	0.00	0.00	0.00
22,200.0	90.00	179.60	10,559.0	-11,585.5	-175.6	11,584.0	0.00	0.00	0.00
22,300.0	90.00	179.60	10,559.0	-11,685.5	-174.9	11,684.0	0.00	0.00	0.00
22,400.0	90.00	179.60	10,559.0	-11,785.5	-174.2	11,784.0	0.00	0.00	0.00
22,500.0	90.00	179.60	10,559.0	-11,885.5	-173.5	11,884.0	0.00	0.00	0.00
22,600.0	90.00	179.60	10,559.0	-11,985.5	-172.8	11,984.0	0.00	0.00	0.00
22,700.0	90.00	179.60	10,559.0	-12,085.5	-172.1	12,084.0	0.00	0.00	0.00
22,800.0	90.00	179.60	10,559.0	-12,185.5	-171.4	12,184.0	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Voni Fed Com #131H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3221.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3221.5usft
Site:	Voni	**North Reference:**	Grid
Well:	Voni Fed Com #131H	**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	179.60	10,559.0	-12,285.5	-170.7	12,284.0	0.00	0.00	0.00
23,000.0	90.00	179.60	10,559.0	-12,385.5	-170.0	12,384.0	0.00	0.00	0.00
23,028.2	90.00	179.60	10,559.0	-12,413.6	-169.8	12,412.1	0.00	0.00	0.00
TD at 23028.2 - BHL - Voni Fed Com #131H									

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	9,986.0	269.0	-82.5	376,952.00	668,466.00	32° 2' 6.684 N	103° 47' 22.852 W
BHL - Voni Fed Com #1 - plan hits target center - Point	0.00	0.00	10,559.0	-12,413.6	-169.8	364,268.47	668,378.67	32° 0' 1.169 N	103° 47' 24.607 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
742.2	742.2	Rustler			
1,507.1	1,507.1	Salado (Top Salt)			
3,994.1	3,976.7	Base Salt			
4,026.0	4,008.6	Bell Canyon			
5,141.3	5,123.8	Cherry Canyon			
6,279.5	6,262.0	Brushy Canyon			
7,324.9	7,307.4	L. Brushy Canyon			
7,917.8	7,900.3	BSGL			
8,044.7	8,027.2	Avalon-SS			
8,878.9	8,861.4	FBSG			
9,373.5	9,356.0	SBSC			
9,547.9	9,530.4	SBSG			
10,180.3	10,160.0	TBSC			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,500.0	1,500.0	0.0	0.0	Start Build 1.00
2,300.0	2,297.4	53.3	-16.4	Start 1353.6 hold at 2300.0 MD
3,653.6	3,637.9	233.4	-71.6	Start Drop -1.50
4,187.0	4,169.5	269.0	-82.5	Start 5816.5 hold at 4187.0 MD
10,003.5	9,986.0	269.0	-82.5	Start Build 10.00
10,903.5	10,559.0	-292.9	-194.8	Start DLS 2.00 TFO -90.00
11,488.5	10,559.0	-874.2	-250.2	Start 11539.7 hold at 11488.5 MD
23,028.2	10,559.0	-12,413.6	-169.8	TD at 23028.2

Voni Fed Com 131H
SHL: 350' FNL & 484' FWL Section 21
BHL: 100' FSL & 339' FWL Section 33
Township/Range: 26S 31E
Elevation Above Sea Level: 3194

Drilling Operation Plan

Proposed Drilling Depth: 23028' MD / 10559' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation Quaternary Deposits

KOP Lat/Long (NAD83): 32.035315244723336 N / -103.79015584684777 W
TD Lat/Long (NAD83): 32.00045023111166 N / -103.79064174130346 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	742	742	765	Anhydrite	Barren
Salado (Top of Salt)	1,507	1,507	1,884	Salt	Barren
Castile	3,391	3,391	586	Salt	Barren
Lamar (Base of Salt)	3,977	3,977	32	Dolomite	Barren
Bell Canyon	4,009	4,009	1,115	Sandstone	Oil/Natural Gas
Cherry Canyon	5,124	5,124	1,138	Sandstone	Oil/Natural Gas
Brushy Canyon	6,262	6,262	1,639	Sandstone	Oil/Natural Gas
Bone Spring Lime	7,933	7,901	960	Limestone	Oil/Natural Gas
1st Bone Spring Sand	8,861	8,861	495	Sandstone	Oil/Natural Gas
2nd Bone Spring Carbonate	9,356	9,356	174	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	9,530	9,530	456	Sandstone	Oil/Natural Gas
KOP	**10,003**	**9,986**	**-**	**Sandstone**	**Oil/Natural Gas**
3rd Bone Spring Carb	10,810	10,160	-	Carbonate	Oil/Natural Gas
TD	**23,028**	**10,559**	**-**	**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 - 1051	0 - 1051	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 9853	0 - 9836	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	6.75	0 - 23028	0 - 10559	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	500	1.72	855	13.5	50%	0	C	5% NaCl + LCM
	Tail	250	1.38	347	14.8	50%	751	C	5% NaCl + LCM
Intermediate 1	Lead	700	3.66	2567	10.3	35%	0	A/C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	210	1.38	290	13.2	35%	8853	A/C	5% NaCl + LCM
Production	Tail	910	1.35	1229	13.2	10%	9653	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 - 1051	8.4 - 8.8	28-30	NC
Intermediate 1	9.875	Diesel Brine Emulsion	1051 - 9853	8.4 - 9.4	28-30	NC
Production	6.75	OBM/Cut Brine	9853 - 23028	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 5161 psi. Maximum anticipated surface pressure is 2838 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 26852

COMMENTS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 26852
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 5/5/2021	5/5/2021

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CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 26852
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	5/5/2021