

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

Received by OCD: 5/19/2021 10:41:02 AM

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Lease Number: NMNM138866	Unit or CA Name:	Unit or CA Number:
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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: DALLASState: 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

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

- 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.

- 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 SUNDY

VONI FED COM 131H SUNDY

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	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd			Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE			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.I.II.D.4.L 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	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist		
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	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	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd			Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE			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											

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

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

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-46984	² Pool Code 97860	³ Pool Name JENNINGS; BONE SPRING, WEST
⁴ Property Code 328098	⁵ Property Name VONI FED COM	⁶ Well Number 131H
⁷ OGRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 3194'

¹⁰Surface Location

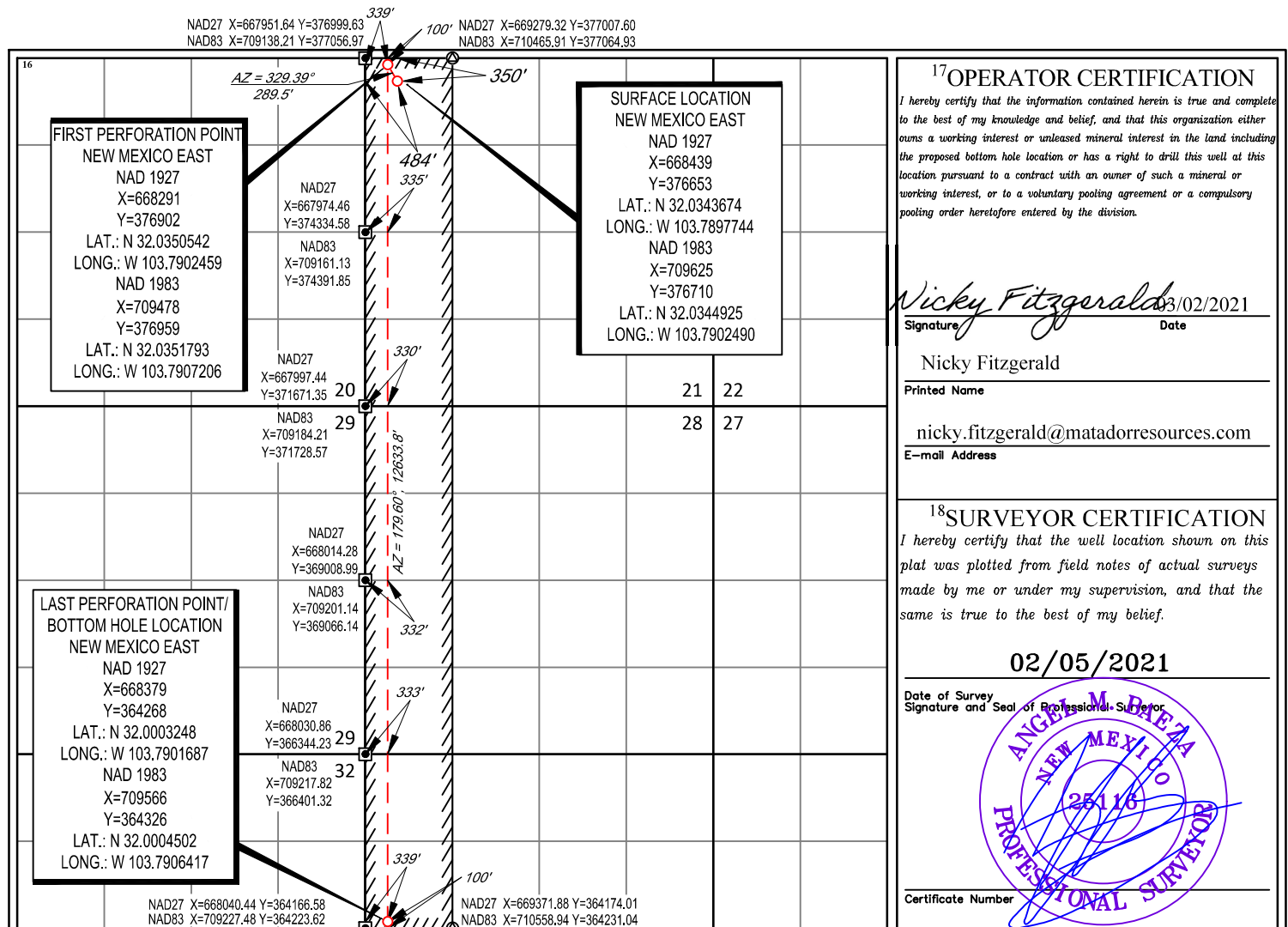
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	21	26-S	31-E	-	350'	NORTH	484'	WEST	EDDY

¹¹Bottom Hole Location If Different From Surface

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

¹² Dedicated Acres 385.38	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



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	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
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

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



Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Voni Fed Com #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													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	-1.0	0.0	0.0	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 convergent 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													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	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 convergent 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													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,050.0	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 convergent 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-MWID													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.0	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 convergent 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		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,300.0	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		

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



Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Voni Fed Com #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		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	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 convergent 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		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
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 convergent 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		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
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 convergent 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		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
13,900.0	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 convergent 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		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
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 convergent 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		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-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 convergent 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		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	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 convergent 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													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
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 convergent 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		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
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 convergent 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		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
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		

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



Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Voni Fed Com #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		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-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 convergent 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		Offset		Semi Major Axis		Distance								Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,000.0	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 convergent 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		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,003.5	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 convergent 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		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.0	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	-6,481.1	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	-6,581.1	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	-6,681.1	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	-6,781.1	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	-6,881.1	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	-6,981.1	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	-7,081.1	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	-7,181.1	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	-7,281.1	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	-7,381.1	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	-7,481.1	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	-7,581.1	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	-7,681.1	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	-7,781.1	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	-7,881.1	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	-7,981.1	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	-8,081.1	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	-8,181.1	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	-8,281.1	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	-8,381.1	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	-8,481.1	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	-8,581.1	454.6	2,073.9	1,911.4	162.42	12.768		

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



Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Voni Fed Com #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		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,300.0	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		

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



Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Voni Fed Com #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													Offset Site Error:	0.0 usft
Survey Program: 234-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	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 convergent 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		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.0	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 convergent 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													Offset Site Error:	0.0 usft
Survey Program: 234-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.0	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 convergent 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													Offset Site Error:	0.0 usft
Survey Program: 234-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
13,500.0	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 convergent 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		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
18,200.0	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 convergent 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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
22,800.0	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	

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



Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Voni Fed Com #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		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-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 convergent 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		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,800.0	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 convergent 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		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,700.0	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 convergent 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		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,300.0	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 convergent 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		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,200.0	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 convergent 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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
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		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	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 convergent 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		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	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 convergent 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		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.0	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 convergent 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		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,400.0	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 convergent 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		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,000.0	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 convergent 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	Offset	Semi Major Axis		Distance										Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
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		

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



Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Voni Fed Com #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		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-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 convergent 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		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,800.0	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	88.92	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 convergent 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		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,900.0	9,882.5	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 convergent 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		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,600.0	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 convergent 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													Offset Site Error:	0.0 usft
Survey Program: 235-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,300.0	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 convergent 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-MWVD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
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		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-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 convergent 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		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	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 convergent 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		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,050.0	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 convergent 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		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.0	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 convergent 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		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,300.0	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		

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



Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Voni Fed Com #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		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-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 convergent 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													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
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 convergent 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													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,003.5	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 convergent 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													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.0	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 convergent 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		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,300.0	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		

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



Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Voni Fed Com #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		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	-1.0	0.0	0.0	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 convergent 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		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
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 convergent 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		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,050.0	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 convergent 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		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.0	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 convergent 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		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,400.0	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	-11,183.3	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		

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



Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Voni Fed Com #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

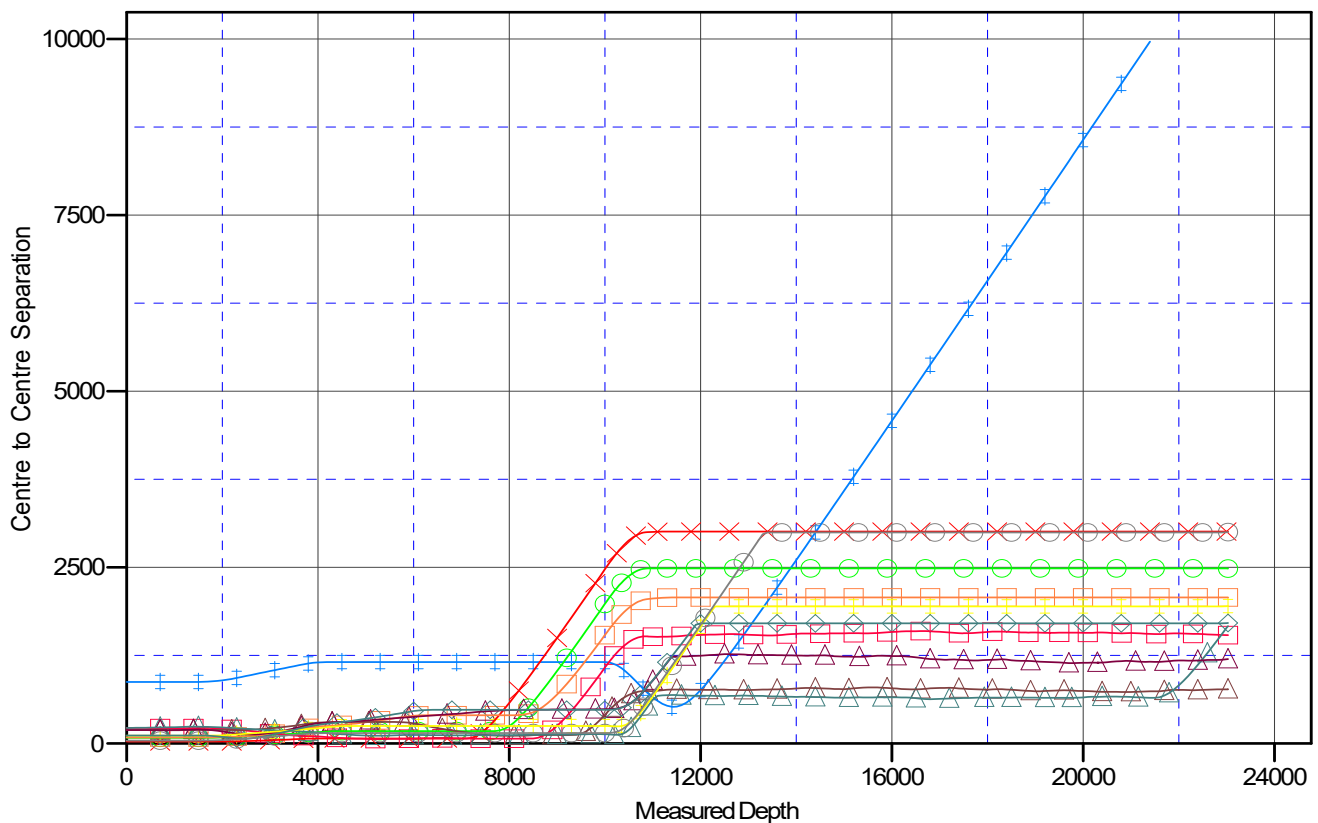
Central Meridian is 104° 20' 0.000 W

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°

Ladder Plot



LEGEND

Flowers SWD #3 Wellbore #1, BLM Plan #1 V0	Voni Fed Com #111H Wellbore #1, Actual V0	Voni Fed Com #221H Wellbore #1, BLM Plan #1 V0
Voni Fed Com #021H Wellbore #1, BLM Plan #1 V0	Voni Fed Com #121H Wellbore #1, Actual V0	Voni Fed Com #225H Wellbore #1, BLM Plan #1 V0
Voni Fed Com #101H Wellbore #1, BLM Plan #1 V0	Voni Fed Com #201H Wellbore #1, Actual V0	Voni Fed Com #241H Wellbore #1, BLM Plan #1 V0
Voni Fed Com #105H Wellbore #1, BLM Plan #1 V0	Voni Fed Com #215H Wellbore #1, Actual V0	

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



Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Voni Fed Com #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

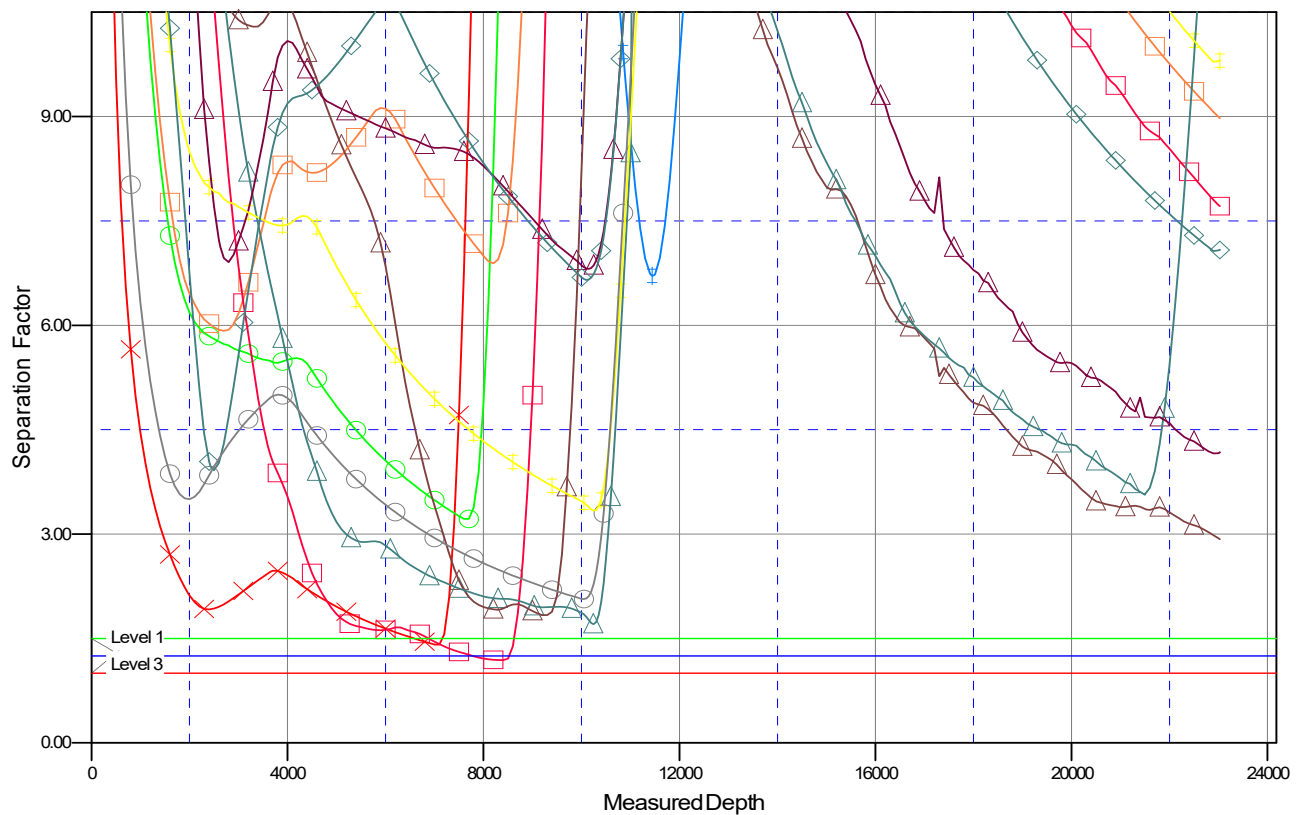
Central Meridian is 104° 20' 0.000 W

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°

Separation Factor Plot



LEGEND

FlowersSWD #3, Wellbore #1, BLM Plan #1 V0	Voni Fed Com #111H, Wellbore #1, Actual V0	Voni Fed Com #221H, Wellbore #1, BLM Plan #1 V0
Voni Fed Com #021H, Wellbore #1, BLM Plan #1 V0	Voni Fed Com #121H, Wellbore #1, Actual V0	Voni Fed Com #225H, Wellbore #1, BLM Plan #1 V0
Voni Fed Com #101H, Wellbore #1, BLM Plan #1 V0	Voni Fed Com #201H, Wellbore #1, Actual V0	Voni Fed Com #241H, Wellbore #1, BLM Plan #1 V0
Voni Fed Com #105H, Wellbore #1, BLM Plan #1 V0	Voni Fed Com #215H, Wellbore #1, Actual V0	

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



SURVEY PROGRAM

WELL DETAILS: Voni Fed Com #131H

Depth From	Depth To	Survey/Plan	Tool				GL @ 3193.0	KB @ 3221.5usft		
0.0	23028.2	BLM Plan #2 (Wellbore #1)	MWD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
				0.0	0.0	376683.06	668548.50	32° 2' 6.019 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

T

G

M

Azimuths to Grid North

True North: -0.29°

Magnetic North: 6.35°

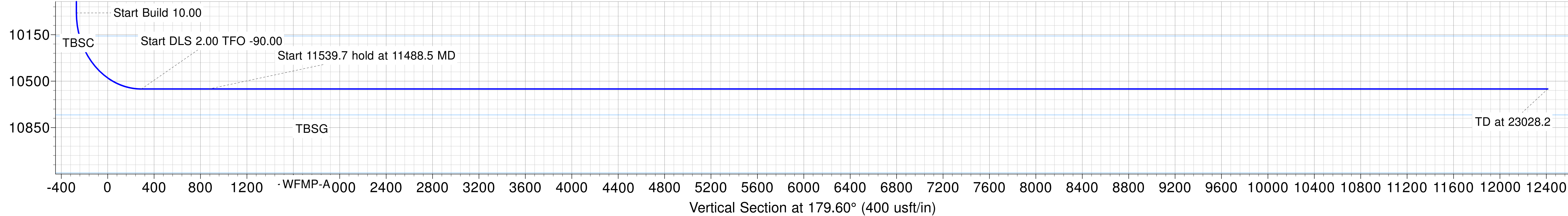
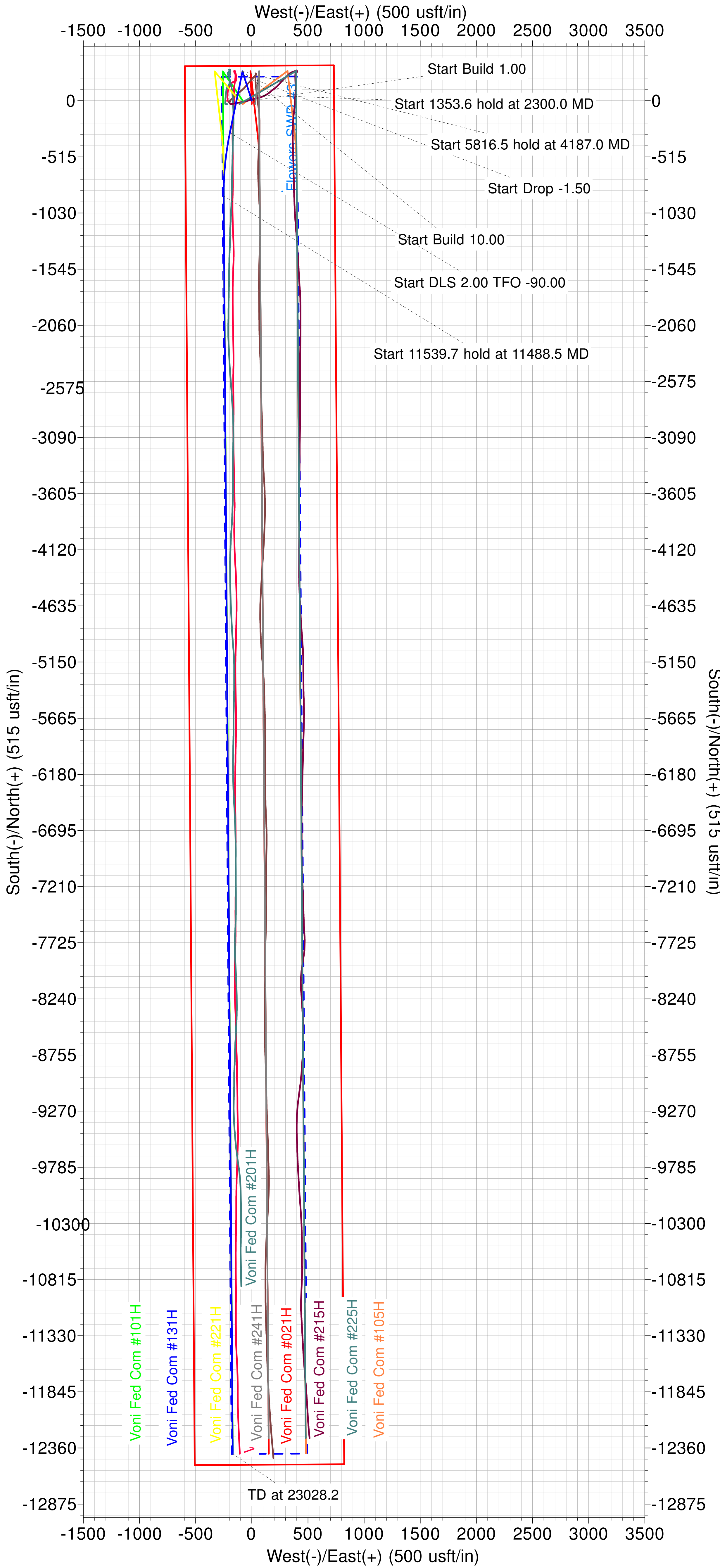
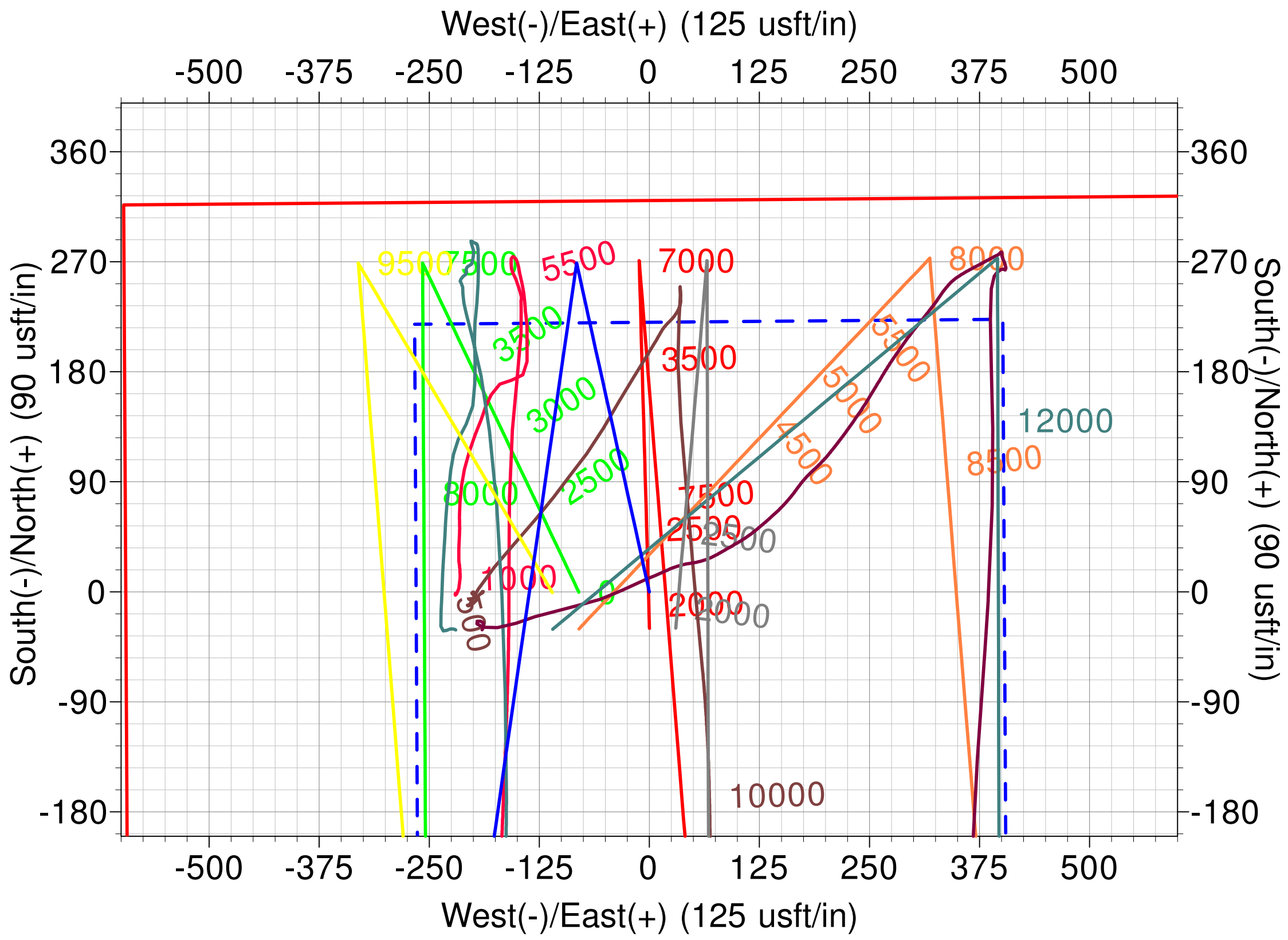
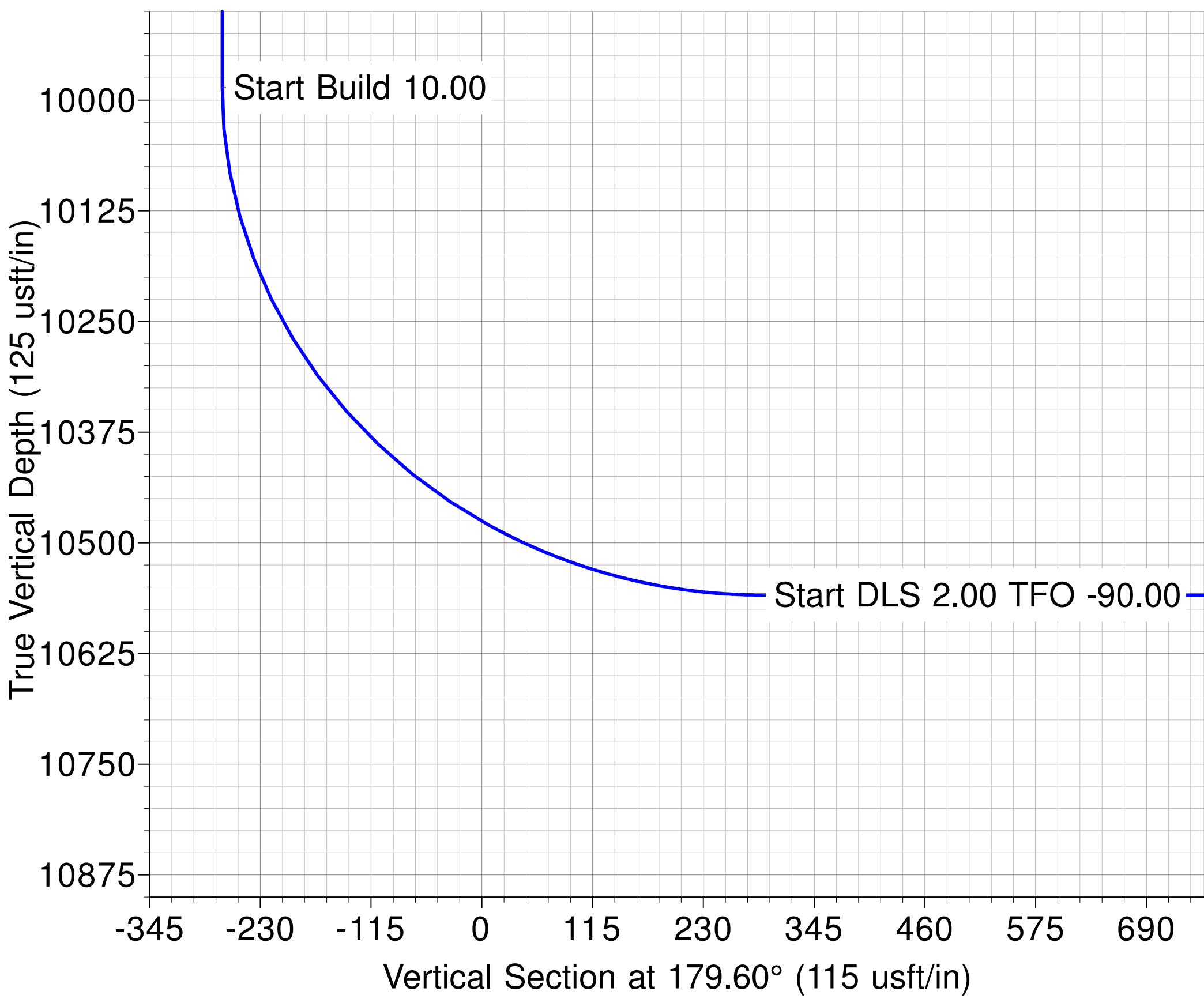
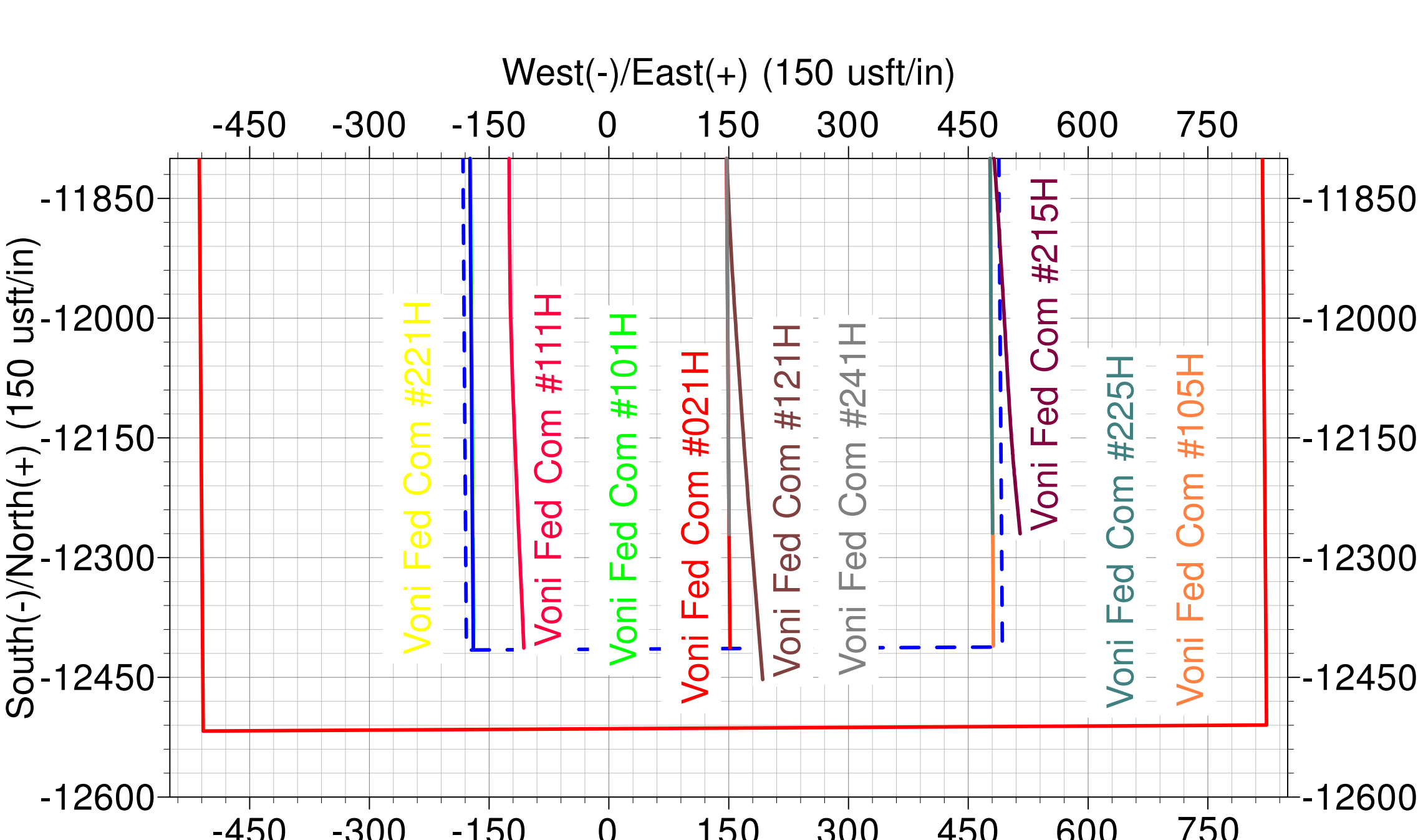
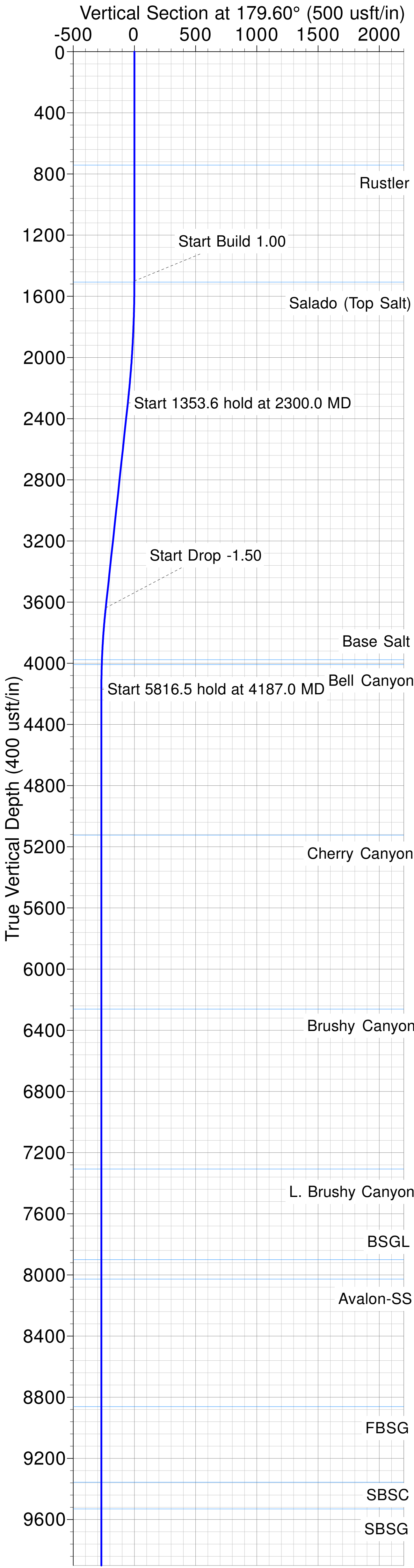
Magnetic Field

Strength: 47426.4snT

Dip Angle: 59.81°

Date: 2/24/2021

Model: IGRF2015





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 #
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



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

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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	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
VP - Voni Fed Com #131 - hit/miss target - Shape - 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 #131 - 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		Comment
		+N/-S (usft)	+E/-W (usft)	
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

Drill Plan**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

Drill Plan

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

A third party company will test the BOPs.

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

Variance Request

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

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

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

4. Casing & Cement

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

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	17.5	0 - 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 necessary.

Variance Request

Drill Plan

Matador request a variance to wave the centralizer requirement for the 7-5/8" casing and the 5-1/2" SF/Flush casing in the 6-3/4" hole.

If a DV tool is used, depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above the current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Matador request option to perform a bradenhead cement squeeze on Intermediate 1 string.

Matador request a variance to utilize a surface setting rig. If this is used, Matador request the option to drill either 17.5" or 20" surface hole.

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement	Class	Blend
Surface	Lead	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% CaCL ₂ + 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 28794

COMMENTS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 28794
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 5/20/2021	5/20/2021

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CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	5/20/2021