

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS****Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.**5. Lease Serial No.
NMNM134868

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
LEATHERNECK FED COM 131H

2. Name of Operator

MATADOR PRODUCTION COMPANY

Contact: CADE LABOLT

Email: cade.labolt@matadorresources.com

9. API Well No.
30-015-46001-00-X1

3a. Address

ONE LINCOLN CENTER 5400 LBJ FREEWAY SUITE 1500
DALLAS, TX 75240

3b. Phone No. (include area code)

1500 392-6292

10. Field and Pool or Exploratory Area
RUSSELL

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

Sec 30 T20S R29E NWNW 630FNL 247FWL
32.550007 N Lat, 104.121719 W Lon

11. County or Parish, State

EDDY COUNTY, NM

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

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

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

BLM Bond No. NMB001079
Surety Bond No. RLB0015172

The contemplated revisions included in this downhole sundry incorporate Matador's revision to the uphole well name and SHL requested on sundry EC#469614 submitted on 6/18/2019 (name changed to Leatherneck 3029 Fed Com 135H).

Please see the attached C102 to revise the BHL of Matador's Leatherneck Fed Com 131H from 660' FNL and 240' FWL of Sec. 29 T20S R29E to 989' FNL and 60' FWL of Sec. 29 T20S R29E. The BHL given represents the terminus of the well. The last perforation point will be 989' FNL and 100' FEL lying within the N2N2 of Sec. 29 T20S R29E.

RECEIVED

JUL 23 2019

DISTRICT/ARTESIA/O.C.D.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #469771 verified by the BLM Well Information System
For MATADOR PRODUCTION COMPANY, sent to the Carlsbad
Committed to AFMSS for processing by JUANA MEDRANO on 06/25/2019 (19JM0071SE)

Name (Printed/Typed) CADE LABOLT

Title ASSOCIATE LANDMAN

Signature (Electronic Submission)

Date 06/19/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ZOTA STEVENS

Title PETROLEUM ENGINEER

Date 06/28/2019

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Carlsbad

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

RWP-29-19

Additional data for EC transaction #469771 that would not fit on the form

32. Additional remarks, continued

Mud

Matador requests to change production hole section mud program to OBM.

Name	Hole Size	Mud Weight	Visc	Fluid Loss	Type	Mud
Surface	26"	8.40	28 NC	FW	Spud	Mud
Intermediate 1	17-1/2"	10.00	30-32 NC	Brine	Water	
Intermediate 2	12-1/4"	8.4-8.6	28-30 NC	FW		
Production	8-3/4"	8.8-9.5	45-60 NC	OBM		

Matador requests a variance for the use of a diverter along with a 2000 psi annular to be installed after running 20" surface casing.

Matador requests the option to cut off 20" SOW wellhead and run 13-3/8" SOW multi-bowl wellhead system once 1st intermediate string is run and cemented.

Matador requests the option to run a DV tool with annular packer as contingency in the intermediate 1 or 2 section on 13-3/8" or 9-5/8" casing if lost circulation is encountered. If losses occur, the DV tool with packer will be placed at least 100' above the loss zone to give the option to pump cement as either a single stage or two stage.

Example:

Assuming DV tool is set at 1500' MD but if the setting depth changes, cement volumes will be adjusted proportionately.

Stage 1:

Lead 695 1.78 13.5 Class C + Bentonite + 2% CaCL₂ + 3% NaCl + LCM

Tail 288 1.35 14.4 Class C + 5% NaCl + LCM

100% excess, TOC = 0' MD

Stage 2:

Lead 350 1.78 13.5 Class C + Bentonite + 2% CaCL₂ + 3% NaCl + LCM

100% excess, TOC = 0' MD

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 30-015-46001	² Pool Code 3713	³ Pool Name Avalon; Bone Spring East
⁴ Property Code 325670	⁵ Property Name LEATHERNECK 3029 FED COM	
⁶ Well Number 135H	⁷ Operator Name MATADOR PRODUCTION COMPANY	
⁸ OGRID No. 228937	⁹ Elevation 3238'	

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	30	20-S	29-E	-	870'	NORTH	339'	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
A	29	20-S	29-E	-	989'	NORTH	60'	EAST	EDDY

¹² Dedicated Acres 316.34	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. 61
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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.

¹⁶ SURFACE LOCATION NEW MEXICO EAST NAD 1927 X=565451 Y=563587 LAT.: N 32.5492292 LONG.: W 104.1209218 NAD 1983 X=606631 Y=563648 LAT.: N 32.5493475 LONG.: W 104.1214265 BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1927 X=575503 Y=563466 LAT.: N 32.5488373 LONG.: W 104.0883018 NAD 1983 X=616683 Y=563527 LAT.: N 32.5489560 LONG.: W 104.0888055 FIRST PERFORATION POINT NEW MEXICO EAST NAD 1927 X=565211 Y=563471 LAT.: N 32.5489129 LONG.: W 104.1217018 NAD 1983 X=606391 Y=563533 LAT.: N 32.5490312 LONG.: W 104.1222065 LAST PERFORATION POINT NEW MEXICO EAST NAD 1927 X=575463 Y=563466 LAT.: N 32.5488376 LONG.: W 104.0884316 NAD 1983 X=616643 Y=563527 LAT.: N 32.5489563 LONG.: W 104.0889354	¹⁷OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete in the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Cade LaBolt</i> 6/18/2019 Signature Date Cade LaBolt Printed Name cade.labolt@matadorresources.com E-mail Address ¹⁸SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief. 04/30/2019 Date of Survey <i>ANGEL M. BAEZA</i> Signature and Printed Name ANGEL M. BAEZA PROFESSIONAL SURVEYOR Certificate Number 255116
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Rev 10-29-19

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State of New Mexico
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1220 South St. Francis Dr.
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FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

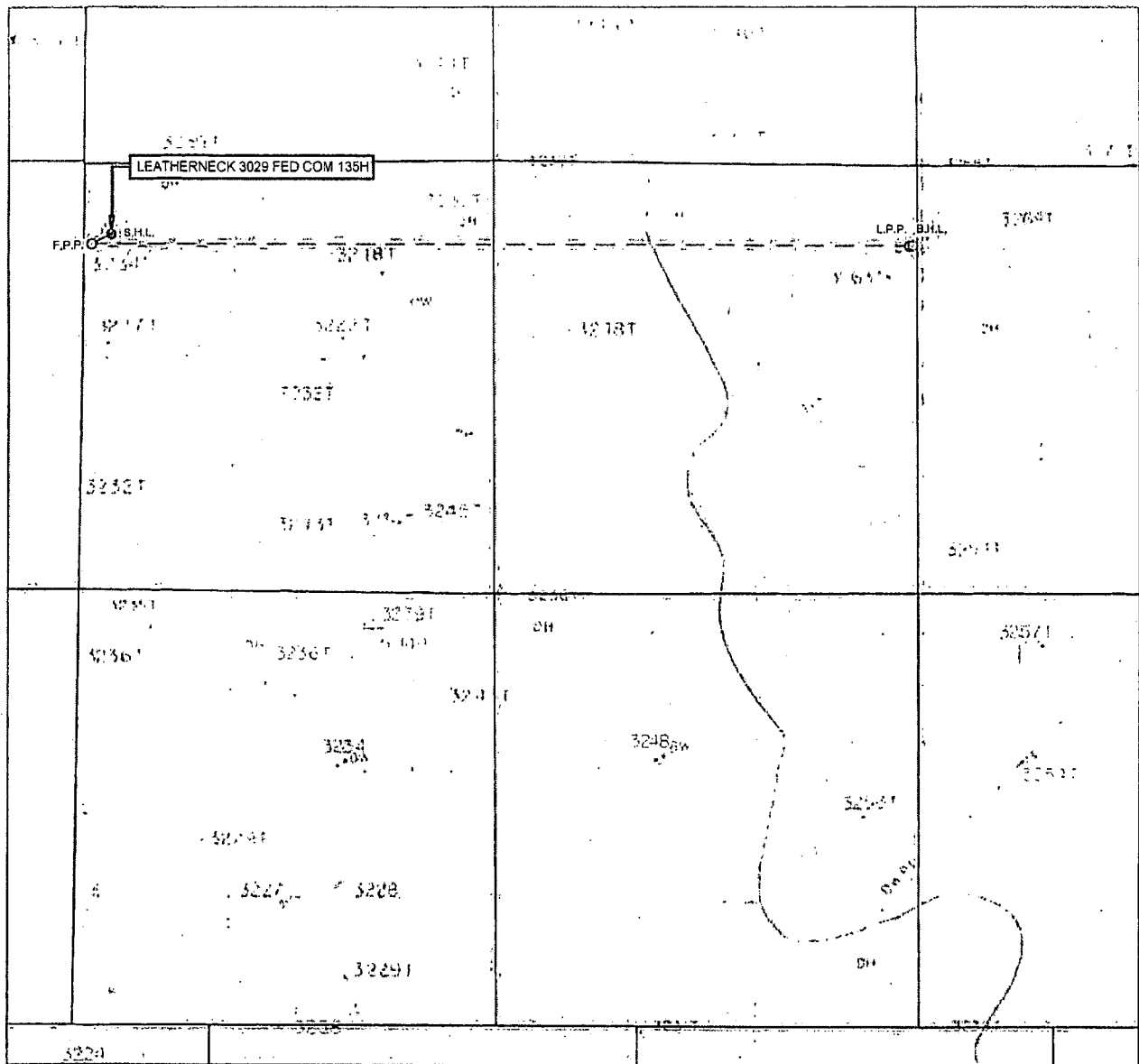
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool Code		Pool Name					
Property Code		Property Name LEATHERNECK 3029 FED COM				Well Number 135H			
OGRID No.		Operator Name MATADOR PRODUCTION COMPANY				Elevation 3238'			
10 Surface Location									
UL or lot no. 1	Section 30	Township 20-S	Range 29-E	Lot Idn -	Feet from the 870'	North/South line NORTH	Feet from the 339'	East/West line WEST	County EDDY
11 Bottom Hole Location If Different From Surface									
UL or lot no. A	Section 29	Township 20-S	Range 29-E	Lot Idn -	Feet from the 989'	North/South line NORTH	Feet from the 60'	East/West line EAST	County EDDY
Dedicated Acres 316.34		Joint or Infill		Consolidation Code		Order No.			

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.

16 SURFACE LOCATION NEW MEXICO EAST NAD 1927 X=565451 Y=563587 LAT.: N 32.5492292 LONG.: W 104.1209218 NAD 1983 X=606631 Y=563648 LAT.: N 32.5493475 LONG.: W 104.1214265		BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1927 X=575503 Y=563466 LAT.: N 32.5488373 LONG.: W 104.0883018 NAD 1983 X=616683 Y=563527 LAT.: N 32.5489560 LONG.: W 104.0888055		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.	
FIRST PERFORATION POINT NEW MEXICO EAST NAD 1927 X=565211 Y=563471 LAT.: N 32.5489129 LONG.: W 104.1217018 NAD 1983 X=606391 Y=563533 LAT.: N 32.5490312 LONG.: W 104.1222065		LAST PERFORATION POINT NEW MEXICO EAST NAD 1927 X=575463 Y=563466 LAT.: N 32.5488376 LONG.: W 104.0884316 NAD 1983 X=616643 Y=563527 LAT.: N 32.5489563 LONG.: W 104.0889354		18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.	
Date of Survey: 04/30/2019 Signature and Seal of Professional Surveyor: ANGEL M. BAEZ Certificate Number: 25118				Signature: _____ Date: _____ Printed Name: _____ E-mail Address: _____	

LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: LEATHERNECK 3029 FED COM 135H

SECTION 30 TWP 20-S RGE 29-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM ELEVATION 3238'
 DESCRIPTION 870' FNL & 339' FWL

LATITUDE N 32.5493475 LONGITUDE W 104.1214265



SCALE: 1" = 2000'
 0' 1000' 2000'

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

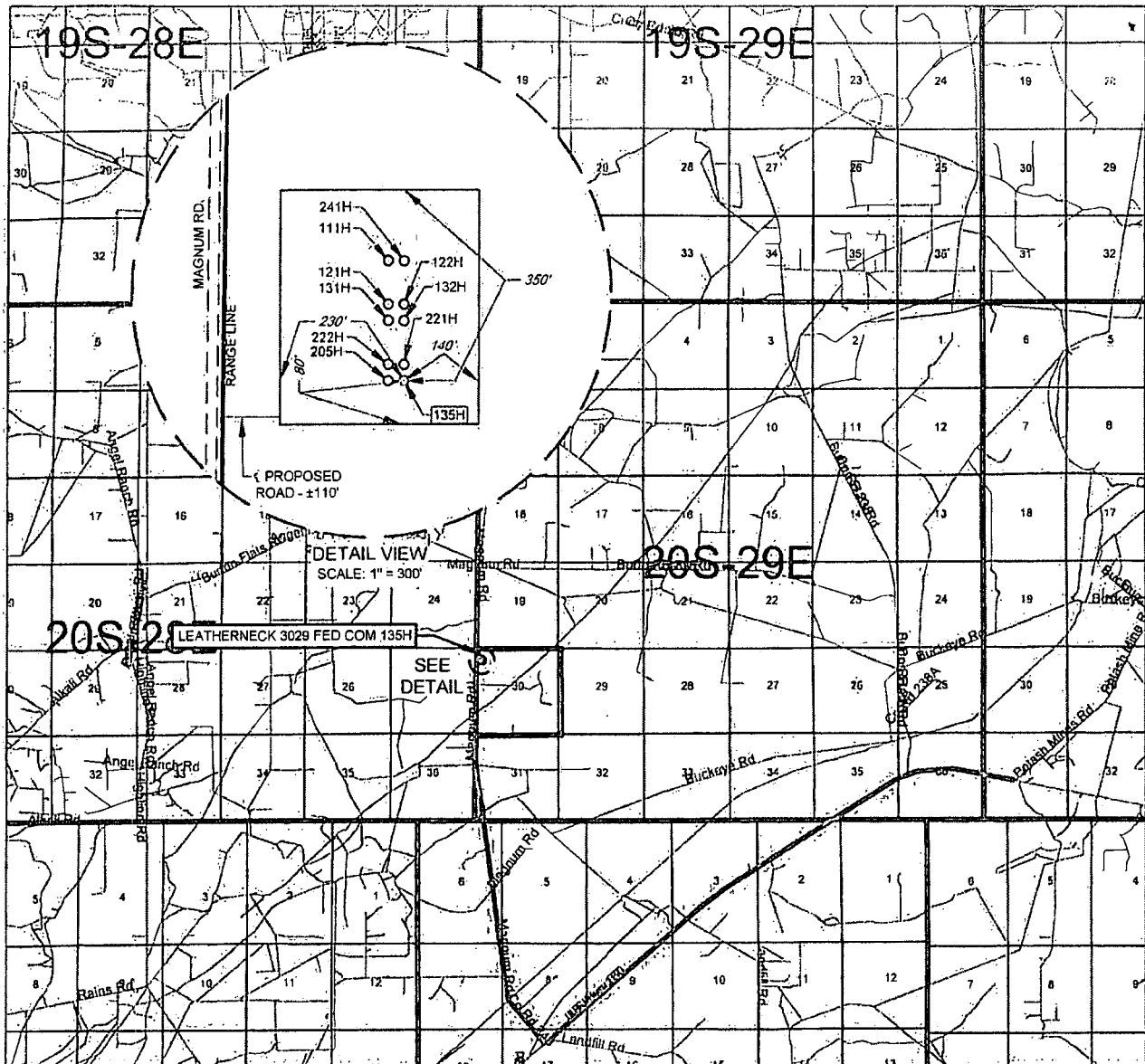
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.



TOPOGRAPHIC
 LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 148 • FT. WORTH, TEXAS 76140
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7534
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE: (432) 682-1653 OR (800) 787-1653 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM

VICINITY MAP



LEASE NAME & WELL NO.: LEATHERNECK 3029 FED COM 135H

SECTION 30 TWP 20-S RGE 29-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM
 DESCRIPTION 870' FNL & 339' FWL

DISTANCE & DIRECTION

FROM INT. OF NM-360 & US-180/US-62 GO WEST ON US-180/US-62 ±6.8
MILES, THENCE NORTH (RIGHT) ON MAGNUM RD. ±4.8 MILES, THENCE
EAST (RIGHT) ON PROPOSED RD. ±110 FEET TO A POINT ±239 FEET
SOUTHWEST OF THE LOCATION.

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY, THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

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SCALE: 1" = 10000'
 0' 5000' 10000'



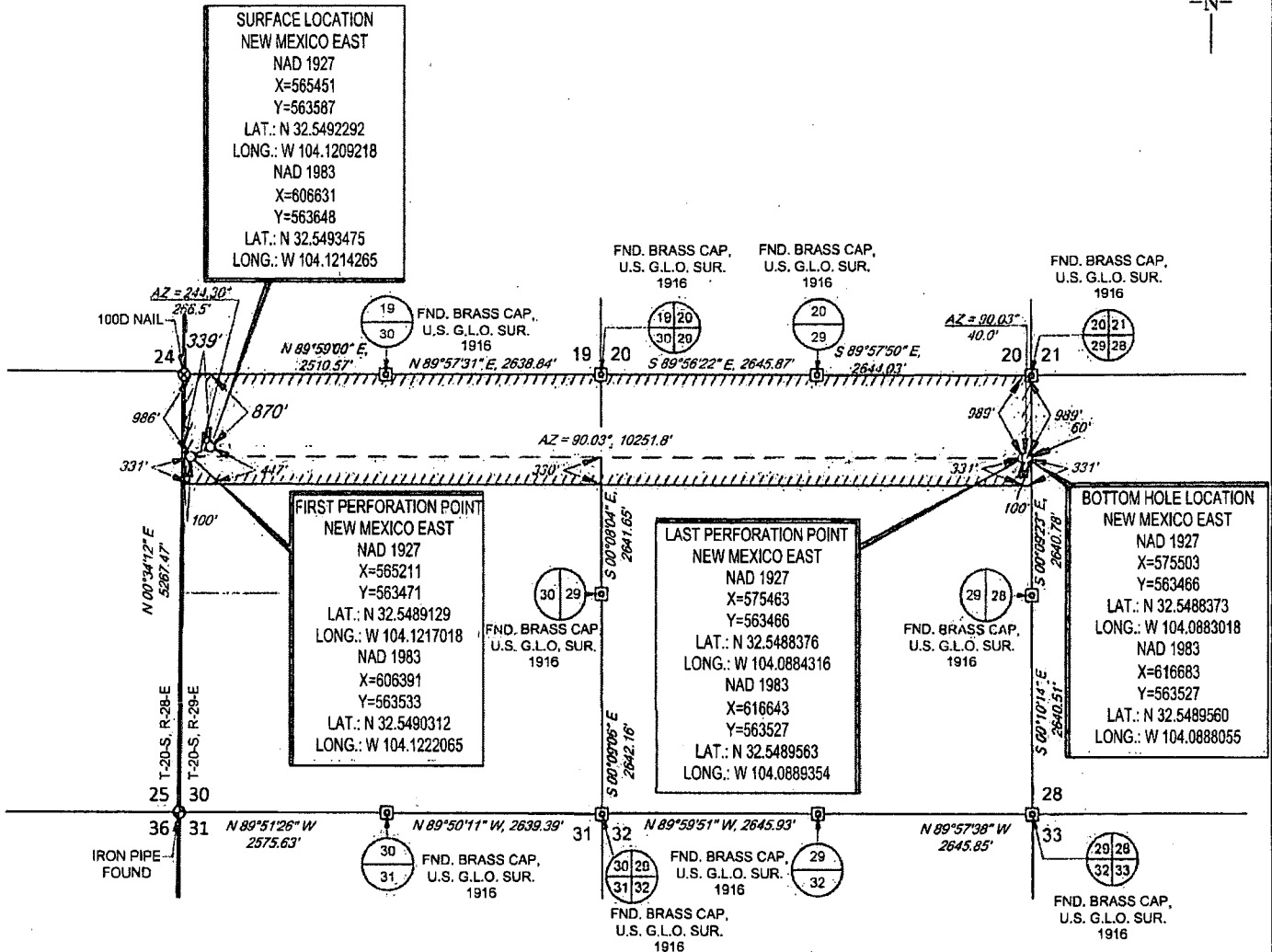
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 WWW.TOPOGRAPHIC.COM

SCALE: 1" = 2000'
0' 1000' 2000'



SECTION 30, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: LEATHERNECK 3029 FED COM 135H
SECTION 30 TWP 20-S RGE 29-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 870' FNL & 339' FWL

DISTANCE & DIRECTION
FROM INT. OF NM-360 & US-180/US-62 GO WEST ON US-180/US-62 +6.8
MILES, THENCE NORTH (RIGHT) ON MAGNUM RD. +4.8 MILES, THENCE
EAST (RIGHT) ON PROPOSED RD. +110 FEET TO A POINT +239 FEET
SOUTHWEST OF THE LOCATION.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY, THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.
AS OF THE DATE OF SURVEY, ALL ABOVE GROUND APPURTENANCES WITHIN 300' OF THE STAKED LOCATION ARE SHOWN HEREON.

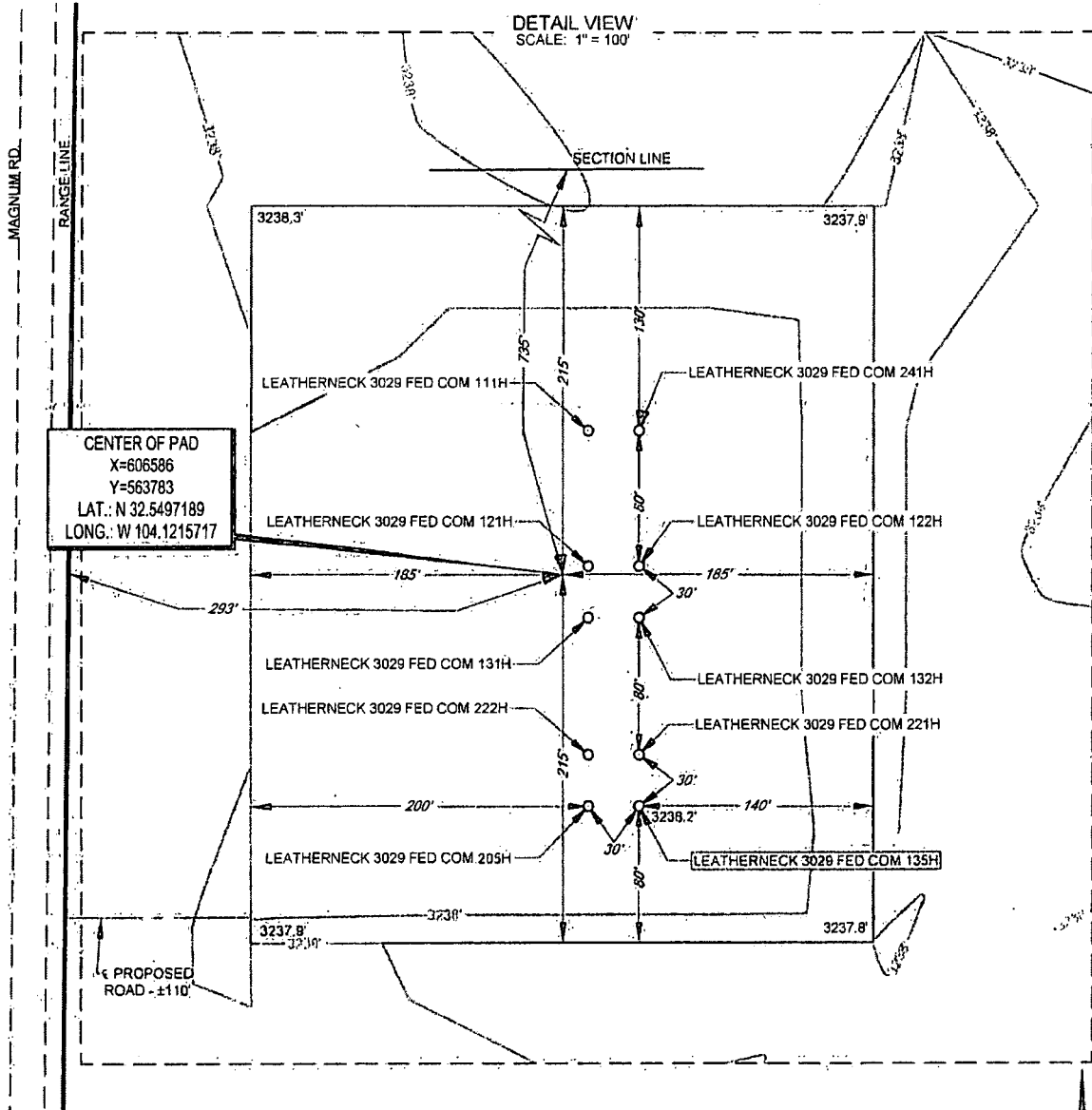


Angel M. Baeza, License No. 25116
MAY 7, 2019

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LOYALTY INNOVATION LEGACY
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TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
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SECTION 30, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



LEGEND

- RANGE LINE
- SECTION LINE
- PROPOSED ROAD
- == ROAD WAY

LEASE NAME & WELL NO.: LEATHERNECK 3029 FED COM 135H
135H LATITUDE N 32.5493475 135H LONGITUDE W 104.1214265

CENTER OF PAD IS 735' FNL & 293' FWL

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

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED
UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER
MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY,
AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND
LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS
NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

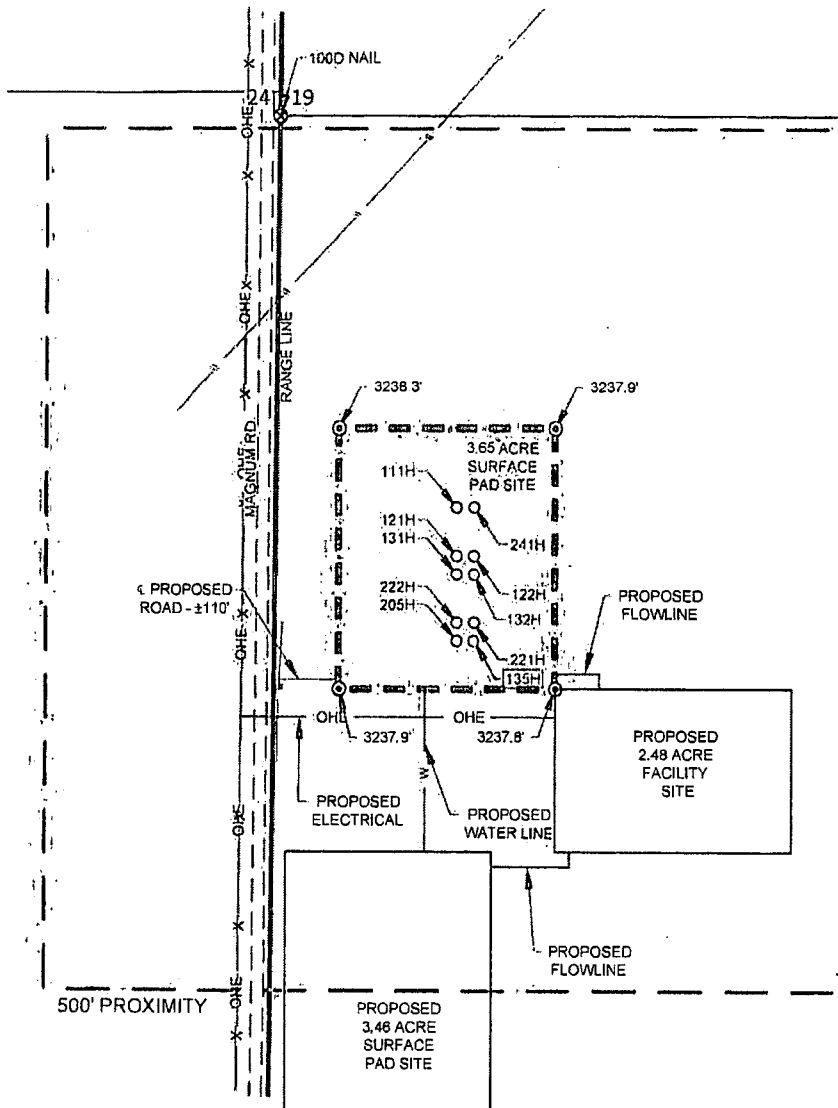
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ORIGINAL DOCUMENT SIZE: 8.5" X 11"

SCALE: 1" = 300'

0' 150' 300'

SECTION 30 TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



LEGEND

- PROPOSED SITE
- 500' PROXIMITY
- RL — TRACT BORDER
- PROPOSED ROAD
- SECTION LINE
- RANGE LINE
- SIXTEENTH SECTION LINE
- OHE — OVERHEAD ELECTRIC
- — EXISTING PIPELINE
- X — FENCE LINE
- — ROAD WAY
- GAS — PROPOSED GAS
- OHE — PROPOSED ELECTRIC
- — PROPOSED FLOWLINE
- — PROPOSED WATER
- ⊙ IRON ROD SET
- ⊗ NAIL FOUND



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LOYALTY INNOVATION LEGACY

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WWW.TOPOGRAPHIC.COM



Angel M. Baeza, License No. 25116
MAY 7, 2019

LEATHERNECK 3029 FED COM 135H PROXIMITY MAP	REVISION:	
	INT	DATE
DATE: 05/02/19		
FILE: LO_LEATHERNECK_3029_FED_COM_135H		
DRAWN BY: EAH		
SHEET: 7 OF 7		

NOTES:

1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR PRODUCTION COMPANY. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.
4. ADJOINER INFORMATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.

Matador Resources

Eddy County, NM (NAD27)

Leatherneck 3029 Fed Com (Slot 1)

#135H

OH

Plan: Prelim A

Standard Planning Report

13 June, 2019

Pro Directional

Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #135H
Company:	Matador Resources	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Project:	Eddy County, NM (NAD27)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site:	Leatherneck 3029 Fed Com (Slot 1)	North Reference:	Grid
Well:	#135H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim A		

Project:	Eddy County, NM (NAD27)		
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		

Site: Leatherneck 3029 Fed Com (Slot 1)					
Site Position:		Northing:	563,727.00 usft	Latitude:	32.549614
From:	Map	Easting:	565,421.00 usft	Longitude:	-104.121019
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.11 °

Well:	#135H					
Well Position	+N/-S	-140.00 usft	Northing:	563,587.00 usft	Latitude:	32.549229
	+E/-W	30.00 usft	Easting:	565,451.00 usft	Longitude:	-104.120922
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,238.00 usft

Wellbore:	OH
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	6/6/2019	7.20	60.30	47,972.90

Design:	Prelim A
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Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	90.03

Plan/Survey Tool/Program			Date: 6/13/2019	
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	19,236.75	Prelim A (OH)	MWD+HDGM
				OWSG MWD + HRGM

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
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1,306.63	6.13	288.32	1,306.05	5.15	-15.56	2.00	2.00	0.00	288.32	
	3,859.14	6.13	288.32	3,843.95	90.85	-274.44	0.00	0.00	0.00	0.00	
	4,165.78	0.00	0.00	4,150.00	96.00	-290.00	2.00	-2.00	0.00	180.00	
	8,552.82	0.00	0.00	8,537.04	96.00	-290.00	0.00	0.00	0.00	0.00	
	9,452.82	90.00	102.10	9,110.00	-24.10	270.23	10.00	10.00	0.00	102.10	
	9,855.24	90.00	90.03	9,110.00	-66.53	669.66	3.00	0.00	-3.00	-90.00	
	19,237.58	90.00	90.03	9,110.00	-71.00	10,052.00	0.00	0.00	0.00	0.00	BHL (Leatherneck 3029)

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #135H
Company:	Matador Resources	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Project:	Eddy County, NM (NAD27)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site:	Leatherneck 3029 Fed Com (Slot 1)	North Reference:	Grid
Well:	#135H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim A		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21.50	0.00	0.00	21.50	0.00	0.00	0.00	0.00	0.00	0.00
Z (Rustler/Karst/Salt)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
20" I.D.									
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
815.50	0.00	0.00	815.50	0.00	0.00	0.00	0.00	0.00	0.00
Z (Tansill/Base Salt)									
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
916.50	0.00	0.00	916.50	0.00	0.00	0.00	0.00	0.00	0.00
Z (Yates)									
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
1,100.00	2.00	288.32	1,099.98	0.55	-1.66	-1.66	2.00	2.00	0.00
1,200.00	4.00	288.32	1,199.84	2.19	-6.62	-6.63	2.00	2.00	0.00
1,200.16	4.00	288.32	1,200.00	2.20	-6.64	-6.64	0.00	0.00	0.00
13 3/8"									
1,293.47	5.87	288.32	1,292.96	4.72	-14.26	-14.26	2.00	2.00	0.00
Start 2577.60 hold at 1293.47 MD									
1,306.63	6.13	288.32	1,306.05	5.15	-15.56	-15.57	2.00	2.00	0.00
1,307.09	6.13	288.32	1,306.50	5.17	-15.61	-15.61	0.00	0.00	0.00
Z (Seven Rivers)									
1,352.35	6.13	288.32	1,351.50	6.69	-20.20	-20.20	0.00	0.00	0.00
Z (Capitan)									
1,400.00	6.13	288.32	1,398.88	8.29	-25.03	-25.04	0.00	0.00	0.00
1,500.00	6.13	288.32	1,498.31	11.64	-35.17	-35.18	0.00	0.00	0.00
1,600.00	6.13	288.32	1,597.74	15.00	-45.32	-45.32	0.00	0.00	0.00
1,700.00	6.13	288.32	1,697.16	18.36	-55.46	-55.47	0.00	0.00	0.00
1,800.00	6.13	288.32	1,796.59	21.72	-65.60	-65.61	0.00	0.00	0.00
1,900.00	6.13	288.32	1,896.02	25.07	-75.74	-75.76	0.00	0.00	0.00
2,000.00	6.13	288.32	1,995.45	28.43	-85.88	-85.90	0.00	0.00	0.00
2,100.00	6.13	288.32	2,094.87	31.79	-96.03	-96.04	0.00	0.00	0.00
2,200.00	6.13	288.32	2,194.30	35.15	-106.17	-106.19	0.00	0.00	0.00
2,300.00	6.13	288.32	2,293.73	38.50	-116.31	-116.33	0.00	0.00	0.00
2,400.00	6.13	288.32	2,393.16	41.86	-126.45	-126.47	0.00	0.00	0.00
2,500.00	6.13	288.32	2,492.59	45.22	-136.59	-136.62	0.00	0.00	0.00
2,600.00	6.13	288.32	2,592.01	48.57	-146.74	-146.76	0.00	0.00	0.00
2,700.00	6.13	288.32	2,691.44	51.93	-156.88	-156.90	0.00	0.00	0.00
2,800.00	6.13	288.32	2,790.87	55.29	-167.02	-167.05	0.00	0.00	0.00
2,900.00	6.13	288.32	2,890.30	58.65	-177.16	-177.19	0.00	0.00	0.00
2,933.39	6.13	288.32	2,923.50	59.77	-180.55	-180.58	0.00	0.00	0.00
Z (Cherry Canyon)									
3,000.00	6.13	288.32	2,989.72	62.00	-187.30	-187.34	0.00	0.00	0.00
3,100.00	6.13	288.32	3,089.15	65.36	-197.44	-197.48	0.00	0.00	0.00
3,110.91	6.13	288.32	3,100.00	65.73	-198.55	-198.59	0.00	0.00	0.00
9 5/8"									

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #135H
Company:	Matador Resources	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Project:	Eddy County, NM (NAD27)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site:	Leathemneck 3029 Fed Com (Slot 1)	North Reference:	Grid
Well:	#135H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim A		

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)
3,200.00	6.13	288.32	3,188.58	68.72	-207.59	-207.62	0.00	0.00	0.00
3,300.00	6.13	288.32	3,288.01	72.08	-217.73	-217.77	0.00	0.00	0.00
3,400.00	6.13	288.32	3,387.43	75.43	-227.87	-227.91	0.00	0.00	0.00
3,500.00	6.13	288.32	3,486.86	78.79	-238.01	-238.05	0.00	0.00	0.00
3,600.00	6.13	288.32	3,586.29	82.15	-248.15	-248.20	0.00	0.00	0.00
3,700.00	6.13	288.32	3,685.72	85.50	-258.30	-258.34	0.00	0.00	0.00
3,800.00	6.13	288.32	3,785.15	88.86	-268.44	-268.48	0.00	0.00	0.00
3,859.14	6.13	288.32	3,843.95	90.85	-274.44	-274.48	0.00	0.00	0.00
3,871.07	5.89	288.32	3,855.81	91.24	-275.62	-275.67	2.00	-2.00	0.00
Start Drop -2.00									
3,900.00	5.32	288.32	3,884.60	92.13	-278.30	-278.35	2.00	-2.00	0.00
4,000.00	3.32	288.32	3,984.31	94.49	-285.45	-285.50	2.00	-2.00	0.00
4,100.00	1.32	288.32	4,084.23	95.76	-289.28	-289.33	2.00	-2.00	0.00
4,164.54	0.02	288.32	4,148.76	96.00	-290.00	-290.05	2.00	-2.00	0.00
Start 4387.04 hold at 4164.54 MD									
4,165.28	0.01	288.32	4,149.50	96.00	-290.00	-290.05	2.00	-2.00	0.00
Z (Brushy Canyon)									
4,165.78	0.00	0.00	4,150.00	96.00	-290.00	-290.05	2.00	-2.00	0.00
4,200.00	0.00	0.00	4,184.22	96.00	-290.00	-290.05	0.00	0.00	0.00
4,300.00	0.00	0.00	4,284.22	96.00	-290.00	-290.05	0.00	0.00	0.00
4,400.00	0.00	0.00	4,384.22	96.00	-290.00	-290.05	0.00	0.00	0.00
4,500.00	0.00	0.00	4,484.22	96.00	-290.00	-290.05	0.00	0.00	0.00
4,600.00	0.00	0.00	4,584.22	96.00	-290.00	-290.05	0.00	0.00	0.00
4,700.00	0.00	0.00	4,684.22	96.00	-290.00	-290.05	0.00	0.00	0.00
4,800.00	0.00	0.00	4,784.22	96.00	-290.00	-290.05	0.00	0.00	0.00
4,900.00	0.00	0.00	4,884.22	96.00	-290.00	-290.05	0.00	0.00	0.00
5,000.00	0.00	0.00	4,984.22	96.00	-290.00	-290.05	0.00	0.00	0.00
5,100.00	0.00	0.00	5,084.22	96.00	-290.00	-290.05	0.00	0.00	0.00
5,200.00	0.00	0.00	5,184.22	96.00	-290.00	-290.05	0.00	0.00	0.00
5,300.00	0.00	0.00	5,284.22	96.00	-290.00	-290.05	0.00	0.00	0.00
5,400.00	0.00	0.00	5,384.22	96.00	-290.00	-290.05	0.00	0.00	0.00
5,500.00	0.00	0.00	5,484.22	96.00	-290.00	-290.05	0.00	0.00	0.00
5,600.00	0.00	0.00	5,584.22	96.00	-290.00	-290.05	0.00	0.00	0.00
5,609.28	0.00	0.00	5,593.50	96.00	-290.00	-290.05	0.00	0.00	0.00
Z (Bone Spring Lime)									
5,700.00	0.00	0.00	5,684.22	96.00	-290.00	-290.05	0.00	0.00	0.00
5,800.00	0.00	0.00	5,784.22	96.00	-290.00	-290.05	0.00	0.00	0.00
5,854.28	0.00	0.00	5,838.50	96.00	-290.00	-290.05	0.00	0.00	0.00
Z (U. Avalon Shale)									
5,900.00	0.00	0.00	5,884.22	96.00	-290.00	-290.05	0.00	0.00	0.00
6,000.00	0.00	0.00	5,984.22	96.00	-290.00	-290.05	0.00	0.00	0.00
6,048.28	0.00	0.00	6,032.50	96.00	-290.00	-290.05	0.00	0.00	0.00
Z (Avalon Carb)									
6,100.00	0.00	0.00	6,084.22	96.00	-290.00	-290.05	0.00	0.00	0.00
6,200.00	0.00	0.00	6,184.22	96.00	-290.00	-290.05	0.00	0.00	0.00
6,264.28	0.00	0.00	6,248.50	96.00	-290.00	-290.05	0.00	0.00	0.00
Z (L. Avalon Shale)									
6,300.00	0.00	0.00	6,284.22	96.00	-290.00	-290.05	0.00	0.00	0.00
6,321.28	0.00	0.00	6,305.50	96.00	-290.00	-290.05	0.00	0.00	0.00
Z (FSBC)									
6,400.00	0.00	0.00	6,384.22	96.00	-290.00	-290.05	0.00	0.00	0.00
6,500.00	0.00	0.00	6,484.22	96.00	-290.00	-290.05	0.00	0.00	0.00
6,600.00	0.00	0.00	6,584.22	96.00	-290.00	-290.05	0.00	0.00	0.00

Pro Directional

Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #135H
Company:	Matador Resources	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Project:	Eddy County, NM (NAD27)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site:	Leatherneck 3029 Fed.Com (Slot 1)	North Reference:	Grid
Well:	#135H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim A		

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)
6,700.00	0.00	0.00	6,684.22	96.00	-290.00	-290.05	0.00	0.00	0.00
6,776.28	0.00	0.00	6,760.50	96.00	-290.00	-290.05	0.00	0.00	0.00
Z (FBSC)									
6,800.00	0.00	0.00	6,784.22	96.00	-290.00	-290.05	0.00	0.00	0.00
6,900.00	0.00	0.00	6,884.22	96.00	-290.00	-290.05	0.00	0.00	0.00
7,000.00	0.00	0.00	6,984.22	96.00	-290.00	-290.05	0.00	0.00	0.00
7,038.28	0.00	0.00	7,022.50	96.00	-290.00	-290.05	0.00	0.00	0.00
Z (SBSC)									
7,100.00	0.00	0.00	7,084.22	96.00	-290.00	-290.05	0.00	0.00	0.00
7,200.00	0.00	0.00	7,184.22	96.00	-290.00	-290.05	0.00	0.00	0.00
7,300.00	0.00	0.00	7,284.22	96.00	-290.00	-290.05	0.00	0.00	0.00
7,400.00	0.00	0.00	7,384.22	96.00	-290.00	-290.05	0.00	0.00	0.00
7,462.28	0.00	0.00	7,446.50	96.00	-290.00	-290.05	0.00	0.00	0.00
Z (SBSC)									
7,500.00	0.00	0.00	7,484.22	96.00	-290.00	-290.05	0.00	0.00	0.00
7,600.00	0.00	0.00	7,584.22	96.00	-290.00	-290.05	0.00	0.00	0.00
7,700.00	0.00	0.00	7,684.22	96.00	-290.00	-290.05	0.00	0.00	0.00
7,800.00	0.00	0.00	7,784.22	96.00	-290.00	-290.05	0.00	0.00	0.00
7,829.28	0.00	0.00	7,813.50	96.00	-290.00	-290.05	0.00	0.00	0.00
Z (SBSC.C)									
7,845.28	0.00	0.00	7,829.50	96.00	-290.00	-290.05	0.00	0.00	0.00
Z (TBSC)									
7,900.00	0.00	0.00	7,884.22	96.00	-290.00	-290.05	0.00	0.00	0.00
8,000.00	0.00	0.00	7,984.22	96.00	-290.00	-290.05	0.00	0.00	0.00
8,100.00	0.00	0.00	8,084.22	96.00	-290.00	-290.05	0.00	0.00	0.00
8,200.00	0.00	0.00	8,184.22	96.00	-290.00	-290.05	0.00	0.00	0.00
8,300.00	0.00	0.00	8,284.22	96.00	-290.00	-290.05	0.00	0.00	0.00
8,400.00	0.00	0.00	8,384.22	96.00	-290.00	-290.05	0.00	0.00	0.00
8,500.00	0.00	0.00	8,484.22	96.00	-290.00	-290.05	0.00	0.00	0.00
8,551.58	0.00	0.00	8,535.80	96.00	-290.00	-290.05	0.00	0.00	0.00
Start Build 10.00									
8,552.82	0.00	0.00	8,537.04	96.00	-290.00	-290.05	0.00	0.00	0.00
8,600.00	4.72	102.10	8,584.17	95.59	-288.10	-288.15	10.00	10.00	0.00
8,650.00	9.72	102.10	8,633.76	94.28	-281.96	-282.01	10.00	10.00	0.00
8,692.66	13.98	102.10	8,675.50	92.44	-273.40	-273.44	10.00	10.00	0.00
Z (TBSC)									
8,700.00	14.72	102.10	8,682.61	92.06	-271.62	-271.67	10.00	10.00	0.00
8,750.00	19.72	102.10	8,730.35	88.96	-257.15	-257.20	10.00	10.00	0.00
8,800.00	24.72	102.10	8,776.63	85.00	-238.67	-238.71	10.00	10.00	0.00
8,850.00	29.72	102.10	8,821.08	80.20	-216.32	-216.36	10.00	10.00	0.00
8,900.00	34.72	102.10	8,863.36	74.62	-190.26	-190.30	10.00	10.00	0.00
8,950.00	39.72	102.10	8,903.17	68.28	-160.70	-160.73	10.00	10.00	0.00
9,000.00	44.72	102.10	8,940.19	61.24	-127.86	-127.89	10.00	10.00	0.00
9,050.00	49.72	102.10	8,974.13	53.55	-91.99	-92.01	10.00	10.00	0.00
9,100.00	54.72	102.10	9,004.76	45.27	-53.36	-53.38	10.00	10.00	0.00
9,150.00	59.72	102.10	9,031.82	36.46	-12.27	-12.29	10.00	10.00	0.00
9,200.00	64.72	102.10	9,055.12	27.19	30.97	30.96	10.00	10.00	0.00
9,250.00	69.72	102.10	9,074.47	17.53	76.03	76.02	10.00	10.00	0.00
9,300.00	74.72	102.10	9,089.74	7.55	122.57	122.57	10.00	10.00	0.00
9,350.00	79.72	102.10	9,100.80	-2.67	170.23	170.23	10.00	10.00	0.00
9,400.00	84.72	102.10	9,107.57	-13.05	218.66	218.66	10.00	10.00	0.00
9,451.58	89.88	102.10	9,110.00	-23.84	269.02	269.03	10.00	10.00	0.00
Start DLS 3.00 TFO -90.00									

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #135H
Company:	Matador Resources	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Project:	Eddy County, NM (NAD27)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site:	Leatherneck 3029 Fed Com (Slot 1)	North Reference:	Grid
Well:	#135H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim.A		

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)
9,452.82	90.00	102.10	9,110.00	-24.10	270.23	270.24	10.00	10.00	0.00
9,500.00	90.00	100.68	9,110.00	-33.42	316.48	316.50	3.00	0.00	-3.00
9,600.00	90.00	97.68	9,110.00	-49.38	415.19	415.21	3.00	0.00	-3.00
9,700.00	90.00	94.68	9,110.00	-60.15	514.59	514.62	3.00	0.00	-3.00
9,747.17	90.00	93.27	9,110.00	-63.42	561.64	561.68	3.00	0.00	-3.00
Start 9481.55 hold at 9747.17 MD									
9,800.00	90.00	91.68	9,110.00	-65.71	614.43	614.46	3.00	0.00	-3.00
9,855.24	90.00	90.03	9,110.00	-66.53	669.66	669.70	3.00	0.00	-3.00
9,900.00	90.00	90.03	9,110.00	-66.55	714.42	714.45	0.00	0.00	0.00
10,000.00	90.00	90.03	9,110.00	-66.60	814.42	814.45	0.00	0.00	0.00
10,100.00	90.00	90.03	9,110.00	-66.65	914.42	914.45	0.00	0.00	0.00
10,200.00	90.00	90.03	9,110.00	-66.70	1,014.42	1,014.45	0.00	0.00	0.00
10,300.00	90.00	90.03	9,110.00	-66.75	1,114.42	1,114.45	0.00	0.00	0.00
10,400.00	90.00	90.03	9,110.00	-66.79	1,214.42	1,214.45	0.00	0.00	0.00
10,500.00	90.00	90.03	9,110.00	-66.84	1,314.42	1,314.45	0.00	0.00	0.00
10,600.00	90.00	90.03	9,110.00	-66.89	1,414.42	1,414.45	0.00	0.00	0.00
10,700.00	90.00	90.03	9,110.00	-66.94	1,514.42	1,514.45	0.00	0.00	0.00
10,800.00	90.00	90.03	9,110.00	-66.98	1,614.42	1,614.45	0.00	0.00	0.00
10,900.00	90.00	90.03	9,110.00	-67.03	1,714.42	1,714.45	0.00	0.00	0.00
11,000.00	90.00	90.03	9,110.00	-67.08	1,814.42	1,814.45	0.00	0.00	0.00
11,100.00	90.00	90.03	9,110.00	-67.13	1,914.42	1,914.45	0.00	0.00	0.00
11,200.00	90.00	90.03	9,110.00	-67.17	2,014.42	2,014.45	0.00	0.00	0.00
11,300.00	90.00	90.03	9,110.00	-67.22	2,114.42	2,114.45	0.00	0.00	0.00
11,400.00	90.00	90.03	9,110.00	-67.27	2,214.42	2,214.45	0.00	0.00	0.00
11,500.00	90.00	90.03	9,110.00	-67.32	2,314.42	2,314.45	0.00	0.00	0.00
11,600.00	90.00	90.03	9,110.00	-67.36	2,414.42	2,414.45	0.00	0.00	0.00
11,700.00	90.00	90.03	9,110.00	-67.41	2,514.42	2,514.45	0.00	0.00	0.00
11,800.00	90.00	90.03	9,110.00	-67.46	2,614.42	2,614.45	0.00	0.00	0.00
11,900.00	90.00	90.03	9,110.00	-67.51	2,714.42	2,714.45	0.00	0.00	0.00
12,000.00	90.00	90.03	9,110.00	-67.55	2,814.42	2,814.45	0.00	0.00	0.00
12,100.00	90.00	90.03	9,110.00	-67.60	2,914.42	2,914.45	0.00	0.00	0.00
12,200.00	90.00	90.03	9,110.00	-67.65	3,014.42	3,014.45	0.00	0.00	0.00
12,300.00	90.00	90.03	9,110.00	-67.70	3,114.42	3,114.45	0.00	0.00	0.00
12,400.00	90.00	90.03	9,110.00	-67.74	3,214.42	3,214.45	0.00	0.00	0.00
12,500.00	90.00	90.03	9,110.00	-67.79	3,314.42	3,314.45	0.00	0.00	0.00
12,600.00	90.00	90.03	9,110.00	-67.84	3,414.42	3,414.45	0.00	0.00	0.00
12,700.00	90.00	90.03	9,110.00	-67.89	3,514.42	3,514.45	0.00	0.00	0.00
12,800.00	90.00	90.03	9,110.00	-67.94	3,614.42	3,614.45	0.00	0.00	0.00
12,900.00	90.00	90.03	9,110.00	-67.98	3,714.42	3,714.45	0.00	0.00	0.00
13,000.00	90.00	90.03	9,110.00	-68.03	3,814.42	3,814.45	0.00	0.00	0.00
13,100.00	90.00	90.03	9,110.00	-68.08	3,914.42	3,914.45	0.00	0.00	0.00
13,200.00	90.00	90.03	9,110.00	-68.13	4,014.42	4,014.45	0.00	0.00	0.00
13,300.00	90.00	90.03	9,110.00	-68.17	4,114.42	4,114.45	0.00	0.00	0.00
13,400.00	90.00	90.03	9,110.00	-68.22	4,214.42	4,214.45	0.00	0.00	0.00
13,500.00	90.00	90.03	9,110.00	-68.27	4,314.42	4,314.45	0.00	0.00	0.00
13,600.00	90.00	90.03	9,110.00	-68.32	4,414.42	4,414.45	0.00	0.00	0.00
13,700.00	90.00	90.03	9,110.00	-68.36	4,514.42	4,514.45	0.00	0.00	0.00
13,800.00	90.00	90.03	9,110.00	-68.41	4,614.42	4,614.45	0.00	0.00	0.00
13,900.00	90.00	90.03	9,110.00	-68.46	4,714.42	4,714.45	0.00	0.00	0.00
14,000.00	90.00	90.03	9,110.00	-68.51	4,814.42	4,814.45	0.00	0.00	0.00
14,100.00	90.00	90.03	9,110.00	-68.55	4,914.42	4,914.45	0.00	0.00	0.00
14,200.00	90.00	90.03	9,110.00	-68.60	5,014.42	5,014.45	0.00	0.00	0.00
14,300.00	90.00	90.03	9,110.00	-68.65	5,114.42	5,114.45	0.00	0.00	0.00
14,400.00	90.00	90.03	9,110.00	-68.70	5,214.42	5,214.45	0.00	0.00	0.00

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #135H
Company:	Matador Resources	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Project:	Eddy County, NM (NAD27)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site:	Leatherneck 3029 Fed Com (Slot 1)	North Reference:	Grid
Well:	#135H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim A		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	N/S (usft)	E/W (usft)	Vertical Section (usft)	Dogleg Rate (%/100usft)	Build Rate (%/100usft)	Turn Rate (%/100usft)
14,500.00	90.00	90.03	9,110.00	-68.74	5,314.42	5,314.45	0.00	0.00	0.00
14,600.00	90.00	90.03	9,110.00	-68.79	5,414.42	5,414.45	0.00	0.00	0.00
14,700.00	90.00	90.03	9,110.00	-68.84	5,514.42	5,514.45	0.00	0.00	0.00
14,800.00	90.00	90.03	9,110.00	-68.89	5,614.42	5,614.45	0.00	0.00	0.00
14,900.00	90.00	90.03	9,110.00	-68.93	5,714.42	5,714.45	0.00	0.00	0.00
15,000.00	90.00	90.03	9,110.00	-68.98	5,814.42	5,814.45	0.00	0.00	0.00
15,100.00	90.00	90.03	9,110.00	-69.03	5,914.42	5,914.45	0.00	0.00	0.00
15,200.00	90.00	90.03	9,110.00	-69.08	6,014.42	6,014.45	0.00	0.00	0.00
15,300.00	90.00	90.03	9,110.00	-69.13	6,114.42	6,114.45	0.00	0.00	0.00
15,400.00	90.00	90.03	9,110.00	-69.17	6,214.42	6,214.45	0.00	0.00	0.00
15,500.00	90.00	90.03	9,110.00	-69.22	6,314.42	6,314.45	0.00	0.00	0.00
15,600.00	90.00	90.03	9,110.00	-69.27	6,414.42	6,414.45	0.00	0.00	0.00
15,700.00	90.00	90.03	9,110.00	-69.32	6,514.42	6,514.45	0.00	0.00	0.00
15,800.00	90.00	90.03	9,110.00	-69.36	6,614.42	6,614.45	0.00	0.00	0.00
15,900.00	90.00	90.03	9,110.00	-69.41	6,714.42	6,714.45	0.00	0.00	0.00
16,000.00	90.00	90.03	9,110.00	-69.46	6,814.42	6,814.45	0.00	0.00	0.00
16,100.00	90.00	90.03	9,110.00	-69.51	6,914.42	6,914.45	0.00	0.00	0.00
16,200.00	90.00	90.03	9,110.00	-69.55	7,014.42	7,014.45	0.00	0.00	0.00
16,300.00	90.00	90.03	9,110.00	-69.60	7,114.42	7,114.45	0.00	0.00	0.00
16,400.00	90.00	90.03	9,110.00	-69.65	7,214.42	7,214.45	0.00	0.00	0.00
16,500.00	90.00	90.03	9,110.00	-69.70	7,314.42	7,314.45	0.00	0.00	0.00
16,600.00	90.00	90.03	9,110.00	-69.74	7,414.42	7,414.45	0.00	0.00	0.00
16,700.00	90.00	90.03	9,110.00	-69.79	7,514.42	7,514.45	0.00	0.00	0.00
16,800.00	90.00	90.03	9,110.00	-69.84	7,614.42	7,614.45	0.00	0.00	0.00
16,900.00	90.00	90.03	9,110.00	-69.89	7,714.42	7,714.45	0.00	0.00	0.00
17,000.00	90.00	90.03	9,110.00	-69.93	7,814.42	7,814.45	0.00	0.00	0.00
17,100.00	90.00	90.03	9,110.00	-69.98	7,914.42	7,914.45	0.00	0.00	0.00
17,200.00	90.00	90.03	9,110.00	-70.03	8,014.42	8,014.45	0.00	0.00	0.00
17,300.00	90.00	90.03	9,110.00	-70.08	8,114.42	8,114.45	0.00	0.00	0.00
17,400.00	90.00	90.03	9,110.00	-70.13	8,214.42	8,214.45	0.00	0.00	0.00
17,500.00	90.00	90.03	9,110.00	-70.17	8,314.42	8,314.45	0.00	0.00	0.00
17,600.00	90.00	90.03	9,110.00	-70.22	8,414.42	8,414.45	0.00	0.00	0.00
17,700.00	90.00	90.03	9,110.00	-70.27	8,514.42	8,514.45	0.00	0.00	0.00
17,800.00	90.00	90.03	9,110.00	-70.32	8,614.42	8,614.45	0.00	0.00	0.00
17,900.00	90.00	90.03	9,110.00	-70.36	8,714.42	8,714.45	0.00	0.00	0.00
18,000.00	90.00	90.03	9,110.00	-70.41	8,814.42	8,814.45	0.00	0.00	0.00
18,100.00	90.00	90.03	9,110.00	-70.46	8,914.42	8,914.45	0.00	0.00	0.00
18,200.00	90.00	90.03	9,110.00	-70.51	9,014.42	9,014.45	0.00	0.00	0.00
18,300.00	90.00	90.03	9,110.00	-70.55	9,114.42	9,114.45	0.00	0.00	0.00
18,400.00	90.00	90.03	9,110.00	-70.60	9,214.42	9,214.45	0.00	0.00	0.00
18,500.00	90.00	90.03	9,110.00	-70.65	9,314.42	9,314.45	0.00	0.00	0.00
18,600.00	90.00	90.03	9,110.00	-70.70	9,414.42	9,414.45	0.00	0.00	0.00
18,700.00	90.00	90.03	9,110.00	-70.74	9,514.42	9,514.45	0.00	0.00	0.00
18,800.00	90.00	90.03	9,110.00	-70.79	9,614.42	9,614.45	0.00	0.00	0.00
18,900.00	90.00	90.03	9,110.00	-70.84	9,714.42	9,714.45	0.00	0.00	0.00
19,000.00	90.00	90.03	9,110.00	-70.89	9,814.42	9,814.45	0.00	0.00	0.00
19,100.00	90.00	90.03	9,110.00	-70.93	9,914.42	9,914.45	0.00	0.00	0.00
19,200.00	90.00	90.03	9,110.00	-70.98	10,014.42	10,014.45	0.00	0.00	0.00
19,228.71	90.00	90.03	9,110.00	-71.00	10,043.13	10,043.17	0.00	0.00	0.00
TD at 19228.71									
19,237.58	90.00	90.03	9,110.00	-71.00	10,052.00	10,052.04	0.00	0.00	0.00

Pro Directional

Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #135H
Company:	Matador Resources	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Project:	Eddy County, NM (NAD27)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site:	Leatherneck 3029 Fed Com (Slot 1)	North Reference:	Grid
Well:	#135H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim A		

Design Targets										
Target Name	hit/miss target	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Shape		(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
FPP (Leatherneck 30%)		0.00	0.00	0.00	-116.00	-240.00	563,471.00	565,211.00	32.548912	-104.121702
- plan misses target center by 266.56usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)										
- Point										
BHL (Leatherneck 30%)		0.00	0.00	9,110.00	-71.00	10,052.00	563,516.00	575,503.00	32.548975	-104.088301
- plan hits target center										
- Point										
LPP (Leatherneck 30%)		0.00	0.00	9,110.00	-121.00	10,012.00	563,466.00	575,463.00	32.548838	-104.088431
- plan misses target center by 50.02usft at 19197.61usft MD (9110.00 TVD, -70.98 N, 10012.02 E)										
- Point										

Casing Points					
Measured Depth	Vertical Depth		Name	Casing Diameter	Hole Diameter
(usft)	(usft)			(")	(")
400.00	400.00	20"		20	26
1,200.16	1,200.00	13 3/8"		13-3/8	17-1/2
3,110.91	3,100.00	9 5/8"		9-5/8	12-1/4

Formations					
Measured Depth	Vertical Depth		Name	Lithology	Dip Direction
(usft)	(usft)				(°)
21.50	21.50	Z (Rustler/Karst/Salt)			
815.50	815.50	Z (Tansill/Base Salt)			
916.50	916.50	Z (Yates)			
1,307.09	1,306.50	Z (Seven Rivers)			
1,352.35	1,351.50	Z (Capitan)			
2,933.39	2,923.50	Z (Cherry Canyon)			
4,165.28	4,149.50	Z (Brushy Canyon)			
5,609.28	5,593.50	Z (Bone Spring Lime)			
5,854.28	5,838.50	Z (U. Avalon Shale)			
6,048.28	6,032.50	Z (Avalon Carb)			
6,264.28	6,248.50	Z (L. Avalon Shale)			
6,321.28	6,305.50	Z (FSBC)			
6,776.28	6,760.50	Z (FBSG)			
7,038.28	7,022.50	Z (SBSC)			
7,462.28	7,446.50	Z (SBSG)			
7,829.28	7,813.50	Z (SBSG C)			
7,845.28	7,829.50	Z (TBSC)			
8,692.66	8,675.50	Z (TBSC)			

Pro Directional Planning Report

Database: WellPlanner1
Company: Matador Resources
Project: Eddy County, NM (NAD27)
Site: Leatherneck 3029 Fed Com (Slot 1)
Well: #135H
Wellbore: OH
Design: Prelim A

Local Co-ordinate Reference: Well #135H
TVD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
MD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,000.00	1,000.00	0.00	0.00	Start Build 2.00
1,293.47	1,292.96	4.72	-14.26	Start 2577.60 hold at 1293.47 MD
3,871.07	3,855.81	91.24	-275.62	Start Drop -2.00
4,164.54	4,148.76	96.00	-290.00	Start 4387.04 hold at 4164.54 MD
8,551.58	8,535.80	96.00	-290.00	Start Build 10.00
9,451.58	9,110.00	-23.84	269.02	Start DLS 3.00 TFO -90.00
9,747.17	9,110.00	-63.42	561.64	Start 9481.55 hold at 9747.17 MD
19,228.71	9,110.00	-71.00	10,043.13	TD at 19228.71

Matador Resources

Eddy County, NM (NAD27)

Leatherneck 3029 Fed Com (Slot 1)

#135H

OH

Prelim A

Anticollision Report

13 June, 2019

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Reference:	Prelim A
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	MD Interval 100.00usft
Depth Range:	Unlimited
Results Limited by:	Maximum center-center distance of 10,000.00 u
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Pedal Curve
Casing Method:	Not applied

Survey Tool Program		Date: 6/13/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	19,236.75	Prelim A (OH)	MWD+HDGM	OWSG MWD + HRGM

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						
Leatherneck 3029 Fed Com						
#105H - OH - Prelim B	4,914.79	4,944.14	82.00	46.49	2.309	CC
#105H - OH - Prelim B	5,000.00	5,028.74	82.12	46.06	2.277	ES, SF
#106H - OH - Prelim B	1,000.00	1,001.00	492.22	485.51	73.330	CC
#106H - OH - Prelim B	1,200.00	1,200.84	492.94	484.81	60.621	ES
#106H - OH - Prelim B	19,237.58	15,624.51	3,821.92	3,597.13	17.002	SF
#112H - OH - Prelim B	1,000.00	1,001.00	576.99	570.28	85.960	CC
#112H - OH - Prelim B	1,200.00	1,200.84	577.57	569.44	71.028	ES
#112H - OH - Prelim B	19,237.58	17,009.80	2,348.70	2,131.21	10.799	SF
#115H - OH - Prelim B	6,523.80	6,540.35	259.76	213.17	5.576	CC, ES, SF
#116H - OH - Prelim B	1,000.00	1,002.00	599.98	593.27	89.337	CC
#116H - OH - Prelim B	1,100.00	1,101.98	600.22	592.80	80.814	ES
#116H - OH - Prelim B	19,237.58	16,955.24	2,586.39	2,306.29	9.234	SF
#125H - OH - Plan 1	7,201.46	7,233.40	162.00	110.27	3.132	CC
#125H - OH - Plan 1	7,300.00	7,331.70	162.03	109.65	3.093	ES, SF
#126H - OH - Plan 1	1,000.00	1,002.00	713.67	706.95	106.264	CC, ES
#126H - OH - Plan 1	19,237.58	17,980.18	1,692.96	1,307.41	4.391	SF
#136H - OH - Prelim B	1,105.57	1,111.66	678.79	671.32	90.844	CC
#136H - OH - Prelim B	1,200.00	1,205.31	679.16	671.03	83.593	ES
#136H - OH - Prelim B	19,237.58	19,265.44	1,322.00	846.44	2.780	SF
#206H - OH - Prelim B	1,000.00	1,003.00	684.27	677.55	101.832	CC, ES
#206H - OH - Prelim B	19,237.58	19,410.33	1,329.60	856.36	2.810	SF
#242H - OH - Prelim B	1,000.00	1,001.00	570.51	563.80	84.994	CC
#242H - OH - Prelim B	1,200.00	1,200.84	571.44	563.31	70.274	ES
#242H - OH - Prelim B	19,237.58	20,080.80	1,140.14	799.39	3.346	SF

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Leatherneck 3029 Fed Com (Slot 1)						
#111H - OH - Prelim A	2,014.53	2,009.90	199.50	185.48	14.228	CC, ES
#111H - OH - Prelim A	6,400.00	6,366.58	391.86	346.49	8.636	SF
#121H - OH - Prelim A	1,831.60	1,828.01	123.48	110.79	9.735	CC
#121H - OH - Prelim A	1,900.00	1,903.98	123.70	110.48	9.363	ES
#121H - OH - Prelim A	19,237.58	17,791.61	1,410.50	1,169.92	5.863	SF
#122H - OH - Prelim A	1,565.01	1,563.94	132.91	122.16	12.363	CC
#122H - OH - Prelim A	1,700.00	1,701.84	133.69	121.95	11.387	ES
#122H - OH - Prelim A	19,237.58	17,728.36	1,502.91	1,226.07	5.429	SF
#131H - OH - Prelim A	1,743.35	1,740.26	95.00	82.96	7.889	CC
#131H - OH - Prelim A	1,800.00	1,803.41	95.19	82.71	7.629	ES
#131H - OH - Prelim A	19,237.58	19,219.41	559.00	84.42	1.178	Level 2, SF
#132H - OH - Prelim A	1,476.75	1,476.20	104.43	94.31	10.327	CC
#132H - OH - Prelim A	1,500.00	1,500.69	104.46	94.17	10.156	ES
#132H - OH - Prelim A	19,237.58	19,139.20	761.00	288.83	1.612	SF
#205H - OH - Prelim A	800.00	800.00	30.00	24.73	5.687	CC
#205H - OH - Prelim A	19,237.58	19,407.34	145.00	-19.09	0.884	Level 1, ES, SF
#221H - OH - Prelim A	1,000.00	1,000.00	30.00	23.29	4.472	CC
#221H - OH - Prelim A	1,100.00	1,099.29	30.62	23.21	4.131	ES
#221H - OH - Prelim A	19,237.58	19,631.09	685.05	287.73	1.724	SF
#222H - OH - Prelim A	1,508.01	1,506.27	19.05	8.72	1.844	CC, ES, SF
#241H - OH - Prelim A	1,000.00	1,000.00	220.00	213.29	32.793	CC
#241H - OH - Prelim A	1,100.00	1,094.97	220.59	213.20	29.816	ES
#241H - OH - Prelim A	19,237.58	20,070.34	1,017.34	723.70	3.465	SF

Offset Design: Leatherneck 3029 Fed Com - #105H - OH - Prelim B										Offset Site Error:	0.00 usft
Survey Program: 0-MWD-HDGM										Offset Well Error:	0.00 usft
Reference	Offset	Semi-Major Axis	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference Depth (usft)	Offset Depth (usft)	N/S (usft)	E/W (usft)	(usft)	(usft)	(usft)	
0.00	0.00	2.00	2.00	0.00	0.00	-163.85	-480.00	-139.00	499.72		
100.00	100.00	102.00	102.00	0.13	0.14	-163.85	-480.00	-139.00	499.72	499.46	0.26 1,896.640
200.00	200.00	202.00	202.00	0.49	0.49	-163.85	-480.00	-139.00	499.72	498.74	0.98 509.701
300.00	300.00	302.00	302.00	0.85	0.85	-163.85	-480.00	-139.00	499.72	498.02	1.70 294.410
400.00	400.00	402.00	402.00	1.20	1.21	-163.85	-480.00	-139.00	499.72	497.31	2.41 206.983
500.00	500.00	502.00	502.00	1.56	1.57	-163.85	-480.00	-139.00	499.72	496.59	3.13 159.592
600.00	600.00	602.00	602.00	1.92	1.93	-163.85	-480.00	-139.00	499.72	495.87	3.85 129.859
700.00	700.00	702.00	702.00	2.28	2.29	-163.85	-480.00	-139.00	499.72	495.16	4.57 109.465
800.00	800.00	802.00	802.00	2.64	2.64	-163.85	-480.00	-139.00	499.72	494.44	5.28 94.607
900.00	900.00	902.00	902.00	3.00	3.00	-163.85	-480.00	-139.00	499.72	493.72	6.00 83.300
1,000.00	1,000.00	1,002.00	1,002.00	3.35	3.36	-163.85	-480.00	-139.00	499.72	493.00	6.72 74.408
1,100.00	1,099.98	1,101.98	1,101.98	3.71	3.72	-92.36	-480.00	-139.00	499.79	492.36	7.43 67.291
1,200.00	1,199.84	1,201.84	1,201.84	4.06	4.08	-92.96	-480.00	-139.00	500.03	491.90	8.14 61.466
1,300.00	1,299.45	1,301.45	1,301.45	4.41	4.44	-93.94	-480.00	-139.00	500.56	491.71	8.85 56.579
1,400.00	1,398.88	1,400.88	1,400.88	4.77	4.79	-95.15	-480.00	-139.00	501.41	491.85	9.56 52.430
1,500.00	1,498.31	1,500.36	1,500.36	5.14	5.15	-96.36	-480.00	-139.00	502.49	492.20	10.28 48.860
1,600.00	1,597.74	1,618.06	1,618.03	5.50	5.57	-97.65	-477.67	-139.71	501.97	490.90	11.07 45.354
1,700.00	1,697.16	1,735.96	1,735.69	5.87	5.99	-98.70	-470.71	-141.84	497.98	486.14	11.84 42.053
1,800.00	1,796.59	1,853.66	1,852.76	6.24	6.42	-99.52	-459.15	-145.37	490.44	477.84	12.60 38.914
1,900.00	1,896.02	1,970.76	1,968.65	6.62	6.84	-100.12	-443.09	-150.28	479.30	465.95	13.35 35.909
2,000.00	1,995.45	2,075.08	2,071.38	6.99	7.22	-100.51	-425.76	-155.58	465.42	451.34	14.08 33.056

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

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Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #105H - OH - Prelim B													Offset Site Error
Survey Program: 30-MWD-HDGM													Offset Well Error
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi-Major Axis Reference (usft)	Semi-Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	Offset Wellbore Centre E/W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,100.00	2,094.87	2,174.05	2,168.80	7.37	7.60	-100.89	-409.12	-160.67	451.39	436.58	14.81	30.474	
2,200.00	2,194.30	2,273.01	2,266.23	7.75	7.97	-101.30	-392.48	-165.75	437.38	421.84	15.55	28.130	
2,300.00	2,293.73	2,371.98	2,363.65	8.13	8.36	-101.73	-375.84	-170.84	423.40	407.11	16.29	25.996	
2,400.00	2,393.16	2,470.94	2,461.07	8.50	8.74	-102.20	-359.20	-175.92	409.44	392.42	17.03	24.046	
2,500.00	2,492.59	2,569.91	2,558.50	8.88	9.13	-102.69	-342.56	-181.01	395.52	377.75	17.77	22.258	
2,600.00	2,592.01	2,668.87	2,655.92	9.26	9.52	-103.23	-325.93	-186.10	381.62	363.10	18.51	20.613	
2,700.00	2,691.44	2,767.84	2,753.34	9.64	9.92	-103.80	-309.29	-191.18	367.75	348.50	19.26	19.096	
2,800.00	2,790.87	2,866.80	2,850.77	10.03	10.31	-104.42	-292.65	-196.27	353.93	333.93	20.00	17.693	
2,900.00	2,890.30	2,965.77	2,948.19	10.41	10.71	-105.09	-276.01	-201.35	340.15	319.40	20.75	16.393	
3,000.00	2,889.72	3,064.73	3,045.61	10.79	11.11	-105.81	-259.37	-206.44	326.42	304.92	21.50	15.186	
3,100.00	3,089.15	3,163.70	3,143.04	11.17	11.51	-106.60	-242.73	-211.53	312.75	290.50	22.24	14.062	
3,200.00	3,188.58	3,262.66	3,240.46	11.56	11.92	-107.46	-226.09	-216.61	299.13	276.15	22.99	13.013	
3,300.00	3,288.01	3,361.63	3,337.88	11.94	12.32	-108.40	-209.45	-221.70	285.60	261.86	23.73	12.034	
3,400.00	3,387.43	3,460.59	3,435.31	12.32	12.73	-109.44	-192.81	-226.78	272.14	247.66	24.48	11.119	
3,500.00	3,486.86	3,559.55	3,532.73	12.70	13.13	-110.58	-176.17	-231.87	258.78	233.56	25.22	10.261	
3,600.00	3,586.29	3,658.52	3,630.15	13.09	13.54	-111.84	-159.53	-236.96	245.53	219.57	25.96	9.458	
3,700.00	3,685.72	3,757.48	3,727.58	13.47	13.95	-113.25	-142.89	-242.04	232.42	205.72	26.70	8.705	
3,800.00	3,785.15	3,856.45	3,825.00	13.86	14.36	-114.83	-126.25	-247.13	219.46	192.02	27.44	7.998	
3,900.00	3,884.60	3,955.41	3,922.42	14.24	14.77	-116.43	-109.62	-252.21	206.55	178.38	28.17	7.332	
4,000.00	3,984.31	4,054.34	4,019.80	14.61	15.18	-117.34	-92.98	-257.30	192.51	163.61	28.90	6.661	
4,100.00	4,084.23	4,153.10	4,117.03	14.97	15.59	-117.40	-76.38	-262.37	176.93	147.31	29.63	5.972	
4,200.00	4,184.22	4,251.62	4,214.01	15.31	16.00	-117.76	-59.81	-267.44	159.87	129.53	30.34	5.269	
4,300.00	4,284.22	4,350.06	4,310.92	15.65	16.41	-117.84	-43.26	-272.50	142.51	111.45	31.06	4.588	
4,400.00	4,384.22	4,448.02	4,407.36	15.99	16.82	-117.40	-26.81	-277.53	125.24	93.45	31.79	3.939	
4,500.00	4,484.22	4,542.99	4,501.17	16.33	17.20	-117.71	-12.68	-281.84	110.01	77.43	32.58	3.377	
4,600.00	4,584.22	4,638.85	4,596.30	16.67	17.58	-117.23	-1.44	-285.28	98.07	64.73	33.34	2.942	
4,700.00	4,684.22	4,735.40	4,692.46	17.02	17.94	-117.59	6.80	-287.80	89.44	55.37	34.07	2.625	
4,800.00	4,784.22	4,832.43	4,789.34	17.36	18.29	-117.57	11.96	-289.37	84.10	49.34	34.76	2.419	
4,900.00	4,884.22	4,929.71	4,886.59	17.70	18.62	-117.99	13.97	-289.99	82.03	46.62	35.41	2.316	
4,914.79	4,899.01	4,944.14	4,901.01	17.75	18.67	-180.00	14.00	-290.00	82.00	46.49	35.51	2.309 CC	
5,000.00	4,984.22	5,028.74	4,985.60	18.05	18.94	-117.32	13.89	-289.02	82.12	46.06	36.06	2.277 ES, SF	
5,100.00	5,084.22	5,124.88	5,080.65	18.39	19.22	-117.16	12.29	-275.48	85.14	48.74	36.40	2.339	
5,200.00	5,184.22	5,214.17	5,165.75	18.74	19.45	-116.69	9.18	-248.93	98.20	62.24	35.97	2.731	
5,300.00	5,284.22	5,293.58	5,237.15	19.08	19.64	-116.29	5.14	-214.55	127.90	93.43	34.47	3.711	
5,400.00	5,384.22	5,362.15	5,294.44	19.43	19.77	-116.18	0.75	-177.21	173.83	141.35	32.48	5.351	
5,500.00	5,484.22	5,420.37	5,339.28	19.77	19.87	-123.64	-3.58	-140.36	232.17	201.62	30.54	7.601	
5,600.00	5,584.22	5,469.47	5,374.00	20.12	19.94	-119.37	-7.63	-105.90	299.45	270.62	28.83	10.387	
5,700.00	5,684.22	5,510.87	5,400.88	20.47	20.00	-116.48	-11.30	-74.65	373.24	345.86	27.38	13.633	
5,800.00	5,784.22	5,550.00	5,424.14	20.82	20.05	-114.23	-14.97	-43.40	451.92	425.53	26.39	17.123	
5,900.00	5,884.22	5,575.70	5,438.22	21.16	20.08	-112.95	-17.48	-22.05	534.21	509.04	25.17	21.226	
6,000.00	5,984.22	5,600.00	5,450.64	21.51	20.13	-111.88	-19.91	-1.31	619.38	595.05	24.33	25.462	
6,100.00	6,084.22	5,623.31	5,461.70	21.86	20.22	-110.95	-22.31	19.06	706.78	683.05	23.73	29.786	
6,200.00	6,184.22	5,650.00	5,473.34	22.21	20.36	-109.99	-25.11	42.92	796.05	772.60	23.45	33.942	
6,300.00	6,284.22	5,650.00	5,473.34	22.56	20.36	-109.99	-25.11	42.92	886.72	864.17	22.56	39.311	
6,400.00	6,384.22	5,674.11	5,482.88	22.91	20.53	-109.21	-27.69	64.90	978.41	955.91	22.50	43.479	
6,500.00	6,484.22	5,700.00	5,492.08	23.26	20.70	-108.46	-30.52	88.94	1,071.41	1,048.85	22.56	47.495	
6,600.00	6,584.22	5,700.00	5,492.08	23.61	20.70	-108.46	-30.52	88.94	1,164.80	1,142.67	22.12	52.654	
6,700.00	6,684.22	5,700.00	5,492.08	23.96	20.70	-108.46	-30.52	88.94	1,259.20	1,237.39	21.81	57.731	
6,800.00	6,784.22	5,718.97	5,498.12	24.31	20.85	-107.96	-32.61	106.80	1,353.96	1,332.04	21.92	61.770	
6,900.00	6,884.22	5,727.55	5,500.66	24.66	20.92	-107.74	-33.57	114.94	1,449.33	1,427.44	21.89	66.205	
7,000.00	6,984.22	5,750.00	5,506.71	25.01	21.10	-107.21	-36.09	136.41	1,545.39	1,523.28	22.11	69.885	
7,100.00	7,084.22	5,750.00	5,506.71	25.36	21.10	-107.21	-36.09	136.41	1,641.38	1,619.35	22.04	74.489	

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Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #105H - OH - Prelim B													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD-HDGM													Offset Well Error: 0.00 usft	
Reference		Offset		Semi-Major Axis		Distance				Warning				
Measured Vertical Depth (usft)	Vertical Depth (usft)	Measured Vertical 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	Warning	
7,200.00	7,184.22	5,750.00	5,506.71	25.71	21.10	107.21	-36.09	136.41	1,737.83	1,715.82	22.01	78.973		
7,300.00	7,284.22	5,750.00	5,506.71	26.07	21.10	107.21	-36.09	136.41	1,834.65	1,812.64	22.02	83.333		
7,400.00	7,384.22	5,750.00	5,506.71	26.42	21.10	107.21	-36.09	136.41	1,931.80	1,909.74	22.06	87.571		
7,500.00	7,484.22	5,750.00	5,506.71	26.77	21.10	107.21	-36.09	136.41	2,029.23	2,007.09	22.13	91.686		
7,600.00	7,584.22	5,770.46	5,511.48	27.12	21.28	106.77	-38.41	156.17	2,126.43	2,103.99	22.43	94.789		
7,700.00	7,684.22	5,774.89	5,512.42	27.48	21.32	106.67	-38.92	160.47	2,224.08	2,201.50	22.58	98.489		
7,800.00	7,784.22	5,779.02	5,513.27	27.83	21.36	106.59	-39.39	164.48	2,321.90	2,299.16	22.74	102.094		
7,900.00	7,884.22	5,800.00	5,517.11	28.18	21.54	106.18	-41.80	184.97	2,420.18	2,397.11	23.07	104.921		
8,000.00	7,984.22	5,800.00	5,517.11	28.53	21.54	106.18	-41.80	184.97	2,518.15	2,494.94	23.21	108.488		
8,100.00	8,084.22	5,800.00	5,517.11	28.89	21.54	106.18	-41.80	184.97	2,616.28	2,592.91	23.37	111.948		
8,200.00	8,184.22	5,800.00	5,517.11	29.24	21.54	106.18	-41.80	184.97	2,714.54	2,691.00	23.54	115.304		
8,300.00	8,284.22	5,800.00	5,517.11	29.59	21.54	106.18	-41.80	184.97	2,812.92	2,789.20	23.73	118.560		
8,400.00	8,384.22	5,800.00	5,517.11	29.95	21.54	106.18	-41.80	184.97	2,911.42	2,887.50	23.92	121.718		
8,500.00	8,484.22	5,800.00	5,517.11	30.30	21.54	106.18	-41.80	184.97	3,010.01	2,985.89	24.12	124.781		
8,600.00	8,584.17	5,800.00	5,517.11	30.65	21.54	2.71	-41.80	184.97	3,108.34	3,084.01	24.32	127.784		
8,700.00	8,682.61	5,800.00	5,517.11	30.96	21.54	1.59	-41.80	184.97	3,203.03	3,178.56	24.48	130.868		
8,800.00	8,776.63	5,800.00	5,517.11	31.24	21.54	1.14	-41.80	184.97	3,291.35	3,266.78	24.58	133.922		
8,900.00	8,863.36	5,825.09	5,520.72	31.52	21.78	0.84	-44.69	209.63	3,370.58	3,345.79	24.79	135.982		
9,000.00	8,940.19	5,850.00	5,523.22	31.81	22.02	0.65	-47.58	234.24	3,439.81	3,414.85	24.95	137.844		
9,100.00	9,004.76	5,850.00	5,523.22	32.12	22.02	0.58	-47.58	234.24	3,496.62	3,471.65	24.97	140.034		
9,200.00	9,055.12	5,850.00	5,523.22	32.51	22.02	0.53	-47.58	234.24	3,540.53	3,515.52	25.01	141.581		
9,300.00	9,089.74	5,872.69	5,524.56	32.98	22.26	0.47	-50.23	256.73	3,570.17	3,544.99	25.19	141.752		
9,400.00	9,107.57	5,895.16	5,525.00	33.55	22.49	0.42	-52.85	279.04	3,585.30	3,559.89	25.41	141.120		
9,500.00	9,110.00	5,930.51	5,525.00	34.22	22.90	0.37	-56.65	314.19	3,587.08	3,561.34	25.74	139.377		
9,600.00	9,110.00	6,031.12	5,525.00	35.02	24.12	0.23	-63.89	414.52	3,587.03	3,560.66	26.37	136.006		
9,700.00	9,110.00	6,131.22	5,525.00	35.95	25.48	0.09	-65.90	514.59	3,587.00	3,559.92	27.09	132.425		
9,800.00	9,110.00	6,231.05	5,525.00	37.00	26.99	0.00	-65.95	614.43	3,587.00	3,559.13	27.87	128.704		
9,808.94	9,110.00	6,239.99	5,525.00	37.10	27.13	0.00	-65.96	623.37	3,587.00	3,559.06	27.94	128.361		
9,900.00	9,110.00	6,331.05	5,525.00	38.15	28.59	-0.01	-66.00	714.42	3,587.00	3,558.29	28.71	124.945		
10,000.00	9,110.00	6,431.05	5,525.00	39.40	30.29	-0.01	-66.06	814.42	3,587.00	3,557.40	29.60	121.168		
10,100.00	9,110.00	6,531.05	5,525.00	40.74	32.06	-0.01	-66.11	914.42	3,587.00	3,556.45	30.55	117.410		
10,200.00	9,110.00	6,631.05	5,525.00	42.17	33.90	-0.01	-66.16	1,014.42	3,587.00	3,555.45	31.55	113.707		
10,300.00	9,110.00	6,731.05	5,525.00	43.67	35.79	-0.01	-66.22	1,114.42	3,587.00	3,554.42	32.58	110.085		
10,400.00	9,110.00	6,831.05	5,525.00	45.24	37.73	-0.01	-66.27	1,214.42	3,587.00	3,553.34	33.66	106.564		
10,500.00	9,110.00	6,931.05	5,525.00	46.87	39.71	-0.01	-66.33	1,314.42	3,587.00	3,552.23	34.77	103.156		
10,600.00	9,110.00	7,031.05	5,525.00	48.55	41.72	-0.01	-66.38	1,414.42	3,587.00	3,551.08	35.92	99.871		
10,700.00	9,110.00	7,131.05	5,525.00	50.29	43.77	-0.01	-66.43	1,514.42	3,587.00	3,549.91	37.09	96.712		
10,800.00	9,110.00	7,231.05	5,525.00	52.07	45.83	-0.01	-66.49	1,614.42	3,587.00	3,548.71	38.29	93.682		
10,900.00	9,110.00	7,331.05	5,525.00	53.89	47.92	-0.01	-66.54	1,714.42	3,587.00	3,547.49	39.51	90.780		
11,000.00	9,110.00	7,431.05	5,525.00	55.74	50.03	-0.01	-66.59	1,814.42	3,587.00	3,546.24	40.76	88.004		
11,100.00	9,110.00	7,531.05	5,525.00	57.63	52.16	-0.01	-66.65	1,914.42	3,587.00	3,544.97	42.03	85.352		
11,200.00	9,110.00	7,631.05	5,525.00	59.55	54.30	-0.01	-66.70	2,014.42	3,587.00	3,543.69	43.31	82.820		
11,300.00	9,110.00	7,731.05	5,525.00	61.50	56.45	-0.01	-66.75	2,114.42	3,587.00	3,542.39	44.61	80.402		
11,400.00	9,110.00	7,831.05	5,525.00	63.47	58.62	-0.01	-66.81	2,214.42	3,587.00	3,541.07	45.93	78.095		
11,500.00	9,110.00	7,931.05	5,525.00	65.46	60.79	-0.01	-66.86	2,314.42	3,587.00	3,539.74	47.26	75.894		
11,600.00	9,110.00	8,031.05	5,525.00	67.47	62.98	-0.01	-66.91	2,414.42	3,587.00	3,538.39	48.61	73.792		
11,700.00	9,110.00	8,131.05	5,525.00	69.50	65.17	-0.01	-66.97	2,514.42	3,587.00	3,537.03	49.97	71.787		
11,800.00	9,110.00	8,231.05	5,525.00	71.55	67.37	-0.01	-67.02	2,614.42	3,587.00	3,535.66	51.34	69.871		
11,900.00	9,110.00	8,331.05	5,525.00	73.61	69.58	-0.01	-67.07	2,714.42	3,587.00	3,534.28	52.72	68.042		
12,000.00	9,110.00	8,431.05	5,525.00	75.69	71.80	-0.01	-67.13	2,814.42	3,587.00	3,532.89	54.11	66.294		
12,100.00	9,110.00	8,531.05	5,525.00	77.78	74.02	-0.01	-67.18	2,914.42	3,587.00	3,531.49	55.51	64.623		
12,200.00	9,110.00	8,631.05	5,525.00	79.88	76.24	-0.01	-67.23	3,014.42	3,587.00	3,530.09	56.91	63.024		

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #105H - OH - Prelim B												Offset Site Error: 0.00 usft	
Survey Program: 0-MWD-HDGM												Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance		Minimum Separation		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)	Separation (usft)	Factor	
12,300.00	9,110.00	8,731.05	5,525.00	82.00	78.47	-0.01	-67.29	3,114.42	3,587.00	3,528.67	58.33	61.495	
12,400.00	9,110.00	8,831.05	5,525.00	84.12	80.71	-0.01	-67.34	3,214.42	3,587.00	3,527.25	59.75	60.030	
12,500.00	9,110.00	8,931.05	5,525.00	86.26	82.95	-0.01	-67.40	3,314.42	3,587.00	3,525.82	61.18	58.627	
12,600.00	9,110.00	9,031.05	5,525.00	88.40	85.19	-0.01	-67.45	3,414.42	3,587.00	3,524.38	62.62	57.282	
12,700.00	9,110.00	9,131.05	5,525.00	90.55	87.44	-0.01	-67.50	3,514.42	3,587.00	3,522.94	64.06	55.993	
12,800.00	9,110.00	9,231.05	5,525.00	92.71	89.68	-0.01	-67.56	3,614.42	3,587.00	3,521.49	65.51	54.755	
12,900.00	9,110.00	9,331.05	5,525.00	94.87	91.94	-0.01	-67.61	3,714.42	3,587.00	3,520.04	66.96	53.567	
13,000.00	9,110.00	9,431.05	5,525.00	97.04	94.19	-0.01	-67.66	3,814.42	3,587.00	3,518.58	68.42	52.425	
13,100.00	9,110.00	9,531.05	5,525.00	99.22	96.45	-0.01	-67.72	3,914.42	3,587.00	3,517.12	69.88	51.328	
13,200.00	9,110.00	9,631.05	5,525.00	101.40	98.71	-0.01	-67.77	4,014.42	3,587.00	3,515.65	71.35	50.272	
13,300.00	9,110.00	9,731.05	5,525.00	103.59	100.97	-0.01	-67.82	4,114.42	3,587.00	3,514.18	72.82	49.256	
13,400.00	9,110.00	9,831.05	5,525.00	105.79	103.24	-0.01	-67.88	4,214.42	3,587.00	3,512.70	74.30	48.278	
13,500.00	9,110.00	9,931.05	5,525.00	107.99	105.50	-0.01	-67.93	4,314.42	3,587.00	3,511.22	75.78	47.336	
13,600.00	9,110.00	10,031.05	5,525.00	110.19	107.77	-0.01	-67.98	4,414.42	3,587.00	3,509.74	77.26	46.427	
13,700.00	9,110.00	10,131.05	5,525.00	112.40	110.04	-0.01	-68.04	4,514.42	3,587.00	3,508.25	78.75	45.551	
13,800.00	9,110.00	10,231.05	5,525.00	114.61	112.31	-0.01	-68.09	4,614.42	3,587.00	3,506.76	80.24	44.706	
13,900.00	9,110.00	10,331.05	5,525.00	116.83	114.58	-0.01	-68.14	4,714.42	3,587.00	3,505.27	81.73	43.890	
14,000.00	9,110.00	10,431.05	5,525.00	119.04	116.86	0.00	-68.20	4,814.42	3,587.00	3,503.78	83.22	43.102	
14,100.00	9,110.00	10,531.05	5,525.00	121.27	119.13	0.00	-68.25	4,914.42	3,587.00	3,502.28	84.72	42.340	
14,200.00	9,110.00	10,631.05	5,525.00	123.49	121.41	0.00	-68.30	5,014.42	3,587.00	3,500.78	86.22	41.603	
14,300.00	9,110.00	10,731.05	5,525.00	125.72	123.69	0.00	-68.36	5,114.42	3,587.00	3,499.28	87.72	40.891	
14,400.00	9,110.00	10,831.05	5,525.00	127.95	125.97	0.00	-68.41	5,214.42	3,587.00	3,497.77	89.23	40.201	
14,500.00	9,110.00	10,931.05	5,525.00	130.19	128.25	0.00	-68.47	5,314.42	3,587.00	3,496.27	90.73	39.534	
14,600.00	9,110.00	11,031.05	5,525.00	132.42	130.53	0.00	-68.52	5,414.42	3,587.00	3,494.76	92.24	38.887	
14,700.00	9,110.00	11,131.05	5,525.00	134.66	132.81	0.00	-68.57	5,514.42	3,587.00	3,493.25	93.75	38.261	
14,800.00	9,110.00	11,231.05	5,525.00	136.90	135.09	0.00	-68.63	5,614.42	3,587.00	3,491.74	95.26	37.653	
14,900.00	9,110.00	11,331.05	5,525.00	139.15	137.38	0.00	-68.68	5,714.42	3,587.00	3,490.22	96.78	37.064	
15,000.00	9,110.00	11,431.05	5,525.00	141.39	139.66	0.00	-68.73	5,814.42	3,587.00	3,488.71	98.30	36.492	
15,100.00	9,110.00	11,531.05	5,525.00	143.64	141.95	0.00	-68.79	5,914.42	3,587.00	3,487.19	99.81	35.937	
15,200.00	9,110.00	11,631.05	5,525.00	145.89	144.23	0.00	-68.84	6,014.42	3,587.00	3,485.67	101.33	35.398	
15,300.00	9,110.00	11,731.05	5,525.00	148.14	146.52	0.00	-68.89	6,114.42	3,587.00	3,484.15	102.85	34.875	
15,400.00	9,110.00	11,831.05	5,525.00	150.39	148.81	0.00	-68.95	6,214.42	3,587.00	3,482.63	104.37	34.366	
15,500.00	9,110.00	11,931.05	5,525.00	152.65	151.09	0.00	-69.00	6,314.42	3,587.00	3,481.10	105.90	33.872	
15,600.00	9,110.00	12,031.05	5,525.00	154.91	153.38	0.00	-69.05	6,414.42	3,587.00	3,479.58	107.42	33.391	
15,700.00	9,110.00	12,131.05	5,525.00	157.16	155.67	0.00	-69.11	6,514.42	3,587.00	3,478.05	108.95	32.924	
15,800.00	9,110.00	12,231.05	5,525.00	159.42	157.96	0.00	-69.16	6,614.42	3,587.00	3,476.52	110.48	32.468	
15,900.00	9,110.00	12,331.05	5,525.00	161.68	160.25	0.00	-69.21	6,714.42	3,587.00	3,474.99	112.01	32.025	
16,000.00	9,110.00	12,431.05	5,525.00	163.95	162.54	0.00	-69.27	6,814.42	3,587.00	3,473.47	113.53	31.594	
16,100.00	9,110.00	12,531.05	5,525.00	166.21	164.84	0.00	-69.32	6,914.42	3,587.00	3,471.93	115.07	31.174	
16,200.00	9,110.00	12,631.05	5,525.00	168.47	167.13	0.00	-69.37	7,014.42	3,587.00	3,470.40	116.60	30.764	
16,300.00	9,110.00	12,731.05	5,525.00	170.74	169.42	0.00	-69.43	7,114.42	3,587.00	3,468.87	118.13	30.365	
16,400.00	9,110.00	12,831.05	5,525.00	173.01	171.71	0.00	-69.48	7,214.42	3,587.00	3,467.34	119.66	29.976	
16,500.00	9,110.00	12,931.05	5,525.00	175.28	174.01	0.00	-69.54	7,314.42	3,587.00	3,465.80	121.20	29.596	
16,600.00	9,110.00	13,031.05	5,525.00	177.54	176.30	0.00	-69.59	7,414.42	3,587.00	3,464.27	122.73	29.226	
16,700.00	9,110.00	13,131.05	5,525.00	179.82	178.59	0.00	-69.64	7,514.42	3,587.00	3,462.73	124.27	28.865	
16,800.00	9,110.00	13,231.05	5,525.00	182.09	180.89	0.00	-69.70	7,614.42	3,587.00	3,461.19	125.81	28.512	
16,900.00	9,110.00	13,331.05	5,525.00	184.36	183.18	0.00	-69.75	7,714.42	3,587.00	3,459.66	127.34	28.168	
17,000.00	9,110.00	13,431.05	5,525.00	186.63	185.48	0.00	-69.80	7,814.42	3,587.00	3,458.12	128.88	27.832	
17,100.00	9,110.00	13,531.05	5,525.00	188.91	187.77	0.00	-69.86	7,914.42	3,587.00	3,456.58	130.42	27.503	
17,200.00	9,110.00	13,631.05	5,525.00	191.18	190.07	0.00	-69.91	8,014.42	3,587.00	3,455.04	131.96	27.182	
17,300.00	9,110.00	13,731.05	5,525.00	193.46	192.36	0.00	-69.96	8,114.42	3,587.00	3,453.50	133.50	26.868	
17,400.00	9,110.00	13,831.05	5,525.00	195.73	194.66	0.00	-70.02	8,214.42	3,587.00	3,451.96	135.04	26.562	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #105H - OH - Prelim B													Offset Site Error:
Survey Program: 0-MWD-HDGM													Offset Well Error:
Reference	Offset	Semi-Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum Separation		Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Offset	Toolface	Between	Between	Between	Between	Between	Between
Depth	Depth	Depth	Depth	Depth	Depth	Depth	(°)	Centres	Ellipses	Centres	Ellipses	Centres	Ellipses
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)
17,482.18	9,110.00	13,913.23	5,525.00	197.60	196.55	0.00	-70.06	8,296.60	3,587.00	3,450.69	136.31	26.315	
17,500.00	9,110.00	13,931.05	5,525.00	198.01	196.96	0.00	-70.07	8,314.42	3,587.00	3,450.41	136.59	26.262	
17,600.00	9,110.00	14,031.05	5,525.00	200.29	199.25	0.00	-70.12	8,414.42	3,587.00	3,448.87	138.13	25.969	
17,700.00	9,110.00	14,131.05	5,525.00	202.56	201.55	0.00	-70.18	8,514.42	3,587.00	3,447.33	139.67	25.682	
17,800.00	9,110.00	14,231.05	5,525.00	204.84	203.85	0.00	-70.23	8,614.42	3,587.00	3,445.78	141.22	25.401	
17,900.00	9,110.00	14,331.05	5,525.00	207.12	206.15	0.00	-70.28	8,714.42	3,587.00	3,444.24	142.76	25.126	
18,000.00	9,110.00	14,431.05	5,525.00	209.40	208.45	0.00	-70.34	8,814.42	3,587.00	3,442.70	144.30	24.857	
18,100.00	9,110.00	14,531.05	5,525.00	211.69	210.74	0.00	-70.39	8,914.42	3,587.00	3,441.15	145.85	24.594	
18,200.00	9,110.00	14,631.05	5,525.00	213.97	213.04	0.00	-70.44	9,014.42	3,587.00	3,439.60	147.40	24.336	
18,300.00	9,110.00	14,731.05	5,525.00	216.25	215.34	0.00	-70.50	9,114.42	3,587.00	3,438.06	148.94	24.083	
18,400.00	9,110.00	14,831.05	5,525.00	218.53	217.64	0.00	-70.55	9,214.42	3,587.00	3,436.51	150.49	23.836	
18,500.00	9,110.00	14,931.05	5,525.00	220.82	219.94	0.00	-70.61	9,314.42	3,587.00	3,434.96	152.04	23.593	
18,600.00	9,110.00	15,031.05	5,525.00	223.10	222.24	0.00	-70.66	9,414.42	3,587.00	3,433.42	153.58	23.355	
18,700.00	9,110.00	15,131.05	5,525.00	225.38	224.54	0.00	-70.71	9,514.42	3,587.00	3,431.87	155.13	23.122	
18,800.00	9,110.00	15,231.05	5,525.00	227.67	226.84	0.00	-70.77	9,614.42	3,587.00	3,430.32	156.68	22.894	
18,900.00	9,110.00	15,331.05	5,525.00	229.95	229.14	0.00	-70.82	9,714.42	3,587.00	3,428.77	158.23	22.669	
19,000.00	9,110.00	15,431.05	5,525.00	232.24	231.44	0.00	-70.87	9,814.42	3,587.00	3,427.22	159.78	22.450	
19,100.00	9,110.00	15,531.05	5,525.00	234.53	233.74	0.00	-70.93	9,914.42	3,587.00	3,425.67	161.33	22.234	
19,200.00	9,110.00	15,631.05	5,525.00	236.81	236.04	0.00	-70.98	10,014.42	3,587.00	3,424.12	162.88	22.022	
19,237.58	9,110.00	15,668.63	5,525.00	237.36	236.90	0.00	-71.00	10,052.00	3,587.00	3,423.68	163.32	21.963	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2:00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim-A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #106H - OH - Prelim-B													Offset Site Error:
Survey Program: 0-MWD-HDGM													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	N-S (usft)	E-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	
0.00	0.00	1.00	1.00	0.00	0.00	-167.21	-480.00	-109.00	492.22				
100.00	100.00	101.00	101.00	0.13	0.13	-167.21	-480.00	-109.00	492.22	491.96	0.26	1,893.941	
200.00	200.00	201.00	201.00	0.49	0.49	-167.21	-480.00	-109.00	492.22	491.24	0.98	503.893	
300.00	300.00	301.00	301.00	0.85	0.85	-167.21	-480.00	-109.00	492.22	490.53	1.69	290.605	
400.00	400.00	401.00	401.00	1.20	1.21	-167.21	-480.00	-109.00	492.22	489.81	2.41	204.180	
500.00	500.00	501.00	501.00	1.56	1.57	-167.21	-480.00	-109.00	492.22	489.09	3.13	157.376	
600.00	600.00	601.00	601.00	1.92	1.92	-167.21	-480.00	-109.00	492.22	488.38	3.84	128.029	
700.00	700.00	701.00	701.00	2.28	2.28	-167.21	-480.00	-109.00	492.22	487.66	4.56	107.906	
800.00	800.00	801.00	801.00	2.64	2.64	-167.21	-480.00	-109.00	492.22	486.94	5.28	93.250	
900.00	900.00	901.00	901.00	3.00	3.00	-167.21	-480.00	-109.00	492.22	486.23	6.00	82.099	
1,000.00	1,000.00	1,001.00	1,001.00	3.35	3.36	-167.21	-480.00	-109.00	492.22	485.51	6.71	73.330 CC	
1,100.00	1,099.98	1,100.98	1,100.98	3.71	3.72	-95.72	-480.00	-109.00	492.39	484.97	7.42	66.327	
1,200.00	1,199.84	1,200.84	1,200.84	4.06	4.07	-96.31	-480.00	-109.00	492.94	484.81	8.13	60.621 ES	
1,300.00	1,299.45	1,300.45	1,300.45	4.41	4.43	-97.29	-480.00	-109.00	493.98	485.13	8.84	55.587	
1,400.00	1,398.88	1,400.12	1,399.88	4.77	4.79	-98.51	-480.00	-109.00	495.45	485.89	9.56	51.821	
1,500.00	1,498.31	1,499.31	1,499.31	5.14	5.14	-99.72	-480.00	-109.00	497.16	486.88	10.28	48.359	
1,600.00	1,597.74	1,584.07	1,584.05	5.50	5.43	-100.75	-481.23	-109.13	500.53	489.60	10.93	45.784	
1,700.00	1,697.16	1,668.46	1,668.36	5.87	5.71	-101.77	-484.92	-109.52	507.05	495.49	11.57	43.839	
1,800.00	1,796.59	1,752.45	1,752.12	6.24	5.99	-102.75	-491.06	-110.16	516.71	504.52	12.19	42.388	
1,900.00	1,896.02	1,835.90	1,835.13	6.62	6.26	-103.69	-499.56	-111.06	529.45	516.65	12.80	41.348	
2,000.00	1,995.45	1,918.66	1,917.17	6.99	6.54	-104.57	-510.37	-112.19	545.24	531.83	13.41	40.661	
2,100.00	2,094.87	2,000.62	1,998.07	7.37	6.82	-105.38	-523.39	-113.56	564.00	550.00	14.00	40.283	
2,200.00	2,194.30	2,081.64	2,077.66	7.75	7.11	-106.12	-538.52	-115.15	585.67	571.09	14.58	40.168	
2,300.00	2,293.73	2,167.70	2,161.72	8.13	7.43	-106.84	-556.83	-117.08	610.01	594.82	15.20	40.144	
2,400.00	2,393.16	2,264.21	2,255.88	8.50	7.79	-107.57	-577.87	-119.29	635.01	619.11	15.90	39.947	
2,500.00	2,492.59	2,360.72	2,350.05	8.88	8.17	-108.26	-598.90	-121.50	660.09	643.49	16.60	39.761	
2,600.00	2,592.01	2,457.23	2,444.21	9.26	8.55	-108.89	-619.94	-123.71	685.26	667.95	17.31	39.586	
2,700.00	2,691.44	2,553.74	2,538.38	9.64	8.94	-109.48	-640.97	-125.92	710.50	692.48	18.02	39.421	
2,800.00	2,790.87	2,650.25	2,632.54	10.03	9.33	-110.03	-662.01	-128.13	735.81	717.07	18.74	39.264	
2,900.00	2,890.30	2,746.77	2,726.71	10.41	9.74	-110.54	-683.05	-130.34	761.18	741.72	19.46	39.117	
3,000.00	2,989.72	2,843.28	2,820.87	10.79	10.14	-111.02	-704.08	-132.55	786.60	766.42	20.18	38.977	
3,100.00	3,089.15	2,939.79	2,915.04	11.17	10.55	-111.47	-725.12	-134.77	812.07	791.16	20.91	38.845	
3,200.00	3,188.58	3,036.30	3,009.20	11.56	10.96	-111.90	-746.15	-136.98	837.58	815.95	21.63	38.719	
3,300.00	3,288.01	3,132.81	3,103.36	11.94	11.38	-112.29	-767.19	-139.19	863.13	840.77	22.36	38.600	
3,400.00	3,387.43	3,229.32	3,197.53	12.32	11.80	-112.67	-788.23	-141.40	888.72	865.63	23.09	38.487	
3,500.00	3,486.86	3,325.83	3,291.69	12.70	12.22	-113.02	-809.26	-143.61	914.35	890.52	23.82	38.379	
3,600.00	3,586.29	3,422.34	3,385.86	13.09	12.64	-113.36	-830.30	-145.82	940.00	915.44	24.56	38.277	
3,700.00	3,685.72	3,518.85	3,480.02	13.47	13.07	-113.67	-851.33	-148.03	965.68	940.39	25.29	38.180	
3,800.00	3,785.15	3,615.37	3,574.19	13.86	13.50	-113.97	-872.37	-150.24	991.39	965.36	26.03	38.086	
3,900.00	3,884.60	3,711.92	3,668.39	14.24	13.93	-114.44	-893.41	-152.46	1,017.01	990.24	26.77	37.995	
4,000.00	3,984.31	3,808.85	3,762.97	14.61	14.36	-115.01	-914.54	-154.68	1,041.48	1,013.99	27.50	37.877	
4,100.00	4,084.23	3,906.15	3,857.90	14.97	14.80	-115.36	-935.75	-156.91	1,064.53	1,036.31	28.22	37.726	
4,200.00	4,184.22	4,003.68	3,953.06	15.31	15.24	-115.62	-957.01	-159.14	1,086.21	1,057.28	28.92	37.553	
4,300.00	4,284.22	4,101.25	4,048.26	15.65	15.68	-115.87	-978.27	-161.38	1,107.59	1,077.96	29.63	37.380	
4,400.00	4,384.22	4,201.19	4,143.45	15.99	16.13	-116.13	-999.54	-163.61	1,129.00	1,098.65	30.35	37.202	
4,500.00	4,484.22	4,303.62	4,238.65	16.33	16.60	-116.36	-1,020.81	-165.85	1,150.42	1,119.35	31.07	37.021	
4,600.00	4,584.22	4,406.05	4,333.85	16.67	17.06	-116.59	-1,042.07	-168.08	1,171.86	1,140.06	31.80	36.847	
4,700.00	4,684.22	4,508.48	4,429.04	17.02	17.53	-116.81	-1,063.34	-170.32	1,193.32	1,160.79	32.53	36.681	
4,800.00	4,784.22	4,589.09	4,524.24	17.36	17.90	-117.03	-1,084.61	-172.55	1,214.80	1,181.62	33.18	36.614	
4,900.00	4,884.22	4,686.66	4,619.44	17.70	18.35	-117.25	-1,105.87	-174.79	1,236.29	1,202.40	33.89	36.478	
5,000.00	4,984.22	4,784.23	4,714.63	18.05	18.79	-117.47	-1,127.14	-177.02	1,257.80	1,223.19	34.60	36.348	
5,100.00	5,084.22	4,881.80	4,809.83	18.39	19.24	-117.69	-1,148.40	-179.26	1,279.31	1,244.00	35.32	36.222	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00° sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #106H - OH - Prelim B													Offset Site Error:
Survey Program: O-MWD-HDGM													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Reference Depth (usft)	Offset Depth (usft)	Semi-Major Axis (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	E/W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,184.22	4,979.37	4,905.03	18.74	19.69	175.10	-1,169.67	-181.49	1,300.85	1,264.81	36.03	36.101	
5,300.00	5,284.22	5,066.64	4,990.18	19.08	20.09	175.24	-1,188.75	-183.09	1,322.52	1,285.85	36.67	36.066	
5,400.00	5,384.22	5,131.98	5,053.57	19.43	20.39	175.10	-1,203.71	-178.46	1,345.99	1,308.87	37.12	36.259	
5,500.00	5,484.22	5,200.00	5,118.35	19.77	20.69	174.61	-1,220.04	-165.87	1,371.85	1,334.28	37.57	36.514	
5,600.00	5,584.22	5,250.00	5,164.64	20.12	20.91	174.05	-1,232.40	-151.65	1,400.24	1,362.41	37.83	37.011	
5,700.00	5,684.22	5,309.58	5,217.81	20.47	21.15	173.18	-1,247.37	-129.39	1,431.40	1,393.26	38.14	37.528	
5,800.00	5,784.22	5,359.78	5,260.52	20.82	21.36	172.29	-1,260.08	-106.30	1,465.61	1,427.28	38.33	38.237	
5,900.00	5,884.22	5,400.00	5,293.12	21.16	21.52	171.47	-1,270.26	-85.07	1,503.08	1,464.69	38.39	39.154	
6,000.00	5,984.22	5,450.00	5,331.38	21.51	21.71	170.35	-1,282.83	-55.47	1,543.91	1,505.41	38.51	40.096	
6,100.00	6,084.22	5,481.88	5,354.34	21.86	21.83	169.57	-1,290.74	-34.83	1,588.19	1,549.78	38.41	41.346	
6,200.00	6,184.22	5,514.16	5,376.37	22.21	21.96	168.75	-1,298.66	-12.60	1,635.93	1,597.63	38.29	42.719	
6,300.00	6,284.22	5,550.00	5,399.30	22.56	22.10	167.79	-1,307.29	13.55	1,687.08	1,648.89	38.19	44.176	
6,400.00	6,384.22	5,568.64	5,410.56	22.91	22.17	167.28	-1,311.71	27.73	1,741.43	1,703.54	37.89	45.957	
6,500.00	6,484.22	5,600.00	5,428.43	23.26	22.30	166.40	-1,319.01	52.44	1,798.98	1,761.26	37.72	47.697	
6,600.00	6,584.22	5,600.00	5,428.43	23.61	22.30	166.40	-1,319.01	52.44	1,859.49	1,822.29	37.20	49.984	
6,700.00	6,684.22	5,630.83	5,444.65	23.96	22.43	165.50	-1,326.01	77.70	1,922.59	1,885.56	37.03	51.921	
6,800.00	6,784.22	5,650.00	5,454.04	24.31	22.52	164.94	-1,330.27	93.86	1,988.37	1,951.64	36.73	54.132	
6,900.00	6,884.22	5,650.00	5,454.04	24.66	22.52	164.94	-1,330.27	93.86	2,056.66	2,020.42	36.24	56.745	
7,000.00	6,984.22	5,676.60	5,466.17	25.01	22.64	164.14	-1,336.04	116.82	2,126.91	2,090.85	36.06	58.976	
7,100.00	7,084.22	5,700.00	5,475.94	25.36	22.76	163.43	-1,340.97	137.50	2,199.41	2,163.55	35.86	61.332	
7,200.00	7,184.22	5,700.00	5,475.94	25.71	22.76	163.43	-1,340.97	137.50	2,273.60	2,238.17	35.44	64.161	
7,300.00	7,284.22	5,700.00	5,475.94	26.07	22.76	163.43	-1,340.97	137.50	2,349.71	2,314.67	35.04	67.062	
7,400.00	7,384.22	5,721.01	5,484.00	26.42	22.87	162.79	-1,345.29	156.41	2,427.19	2,392.31	34.88	69.578	
7,500.00	7,484.22	5,729.98	5,487.22	26.77	22.91	162.52	-1,347.09	164.59	2,506.23	2,471.60	34.63	72.372	
7,600.00	7,584.22	5,750.00	5,493.96	27.12	23.03	161.90	-1,351.05	183.02	2,586.71	2,552.20	34.51	74.962	
7,700.00	7,684.22	5,750.00	5,493.96	27.48	23.03	161.90	-1,351.05	183.02	2,668.20	2,633.99	34.22	77.983	
7,800.00	7,784.22	5,750.00	5,493.96	27.83	23.03	161.90	-1,351.05	183.02	2,750.92	2,716.97	33.95	81.027	
7,900.00	7,884.22	5,750.00	5,493.96	28.18	23.03	161.90	-1,351.05	183.02	2,834.75	2,801.04	33.71	84.083	
8,000.00	7,984.22	5,750.00	5,493.96	28.53	23.03	161.90	-1,351.05	183.02	2,919.60	2,886.10	33.50	87.144	
8,100.00	8,084.22	5,771.89	5,500.59	28.89	23.16	161.22	-1,355.24	203.45	3,004.98	2,971.46	33.52	89.650	
8,200.00	8,184.22	5,777.35	5,502.13	29.24	23.20	161.05	-1,356.26	208.60	3,091.39	3,057.98	33.40	92.546	
8,300.00	8,284.22	5,800.00	5,507.96	29.59	23.35	160.35	-1,360.41	230.08	3,178.80	3,145.34	33.46	95.005	
8,400.00	8,384.22	5,800.00	5,507.96	29.95	23.35	160.35	-1,360.41	230.08	3,266.53	3,233.20	33.34	97.982	
8,500.00	8,484.22	5,800.00	5,507.96	30.30	23.35	160.35	-1,360.41	230.08	3,354.95	3,321.71	33.24	100.934	
8,600.00	8,584.17	5,800.00	5,507.96	30.65	23.35	51.07	-1,360.41	230.08	3,443.50	3,410.35	33.15	103.875	
8,700.00	8,682.61	5,800.00	5,507.96	30.96	23.35	39.85	-1,360.41	230.08	3,527.90	3,494.88	33.03	106.825	
8,800.00	8,776.63	5,800.00	5,507.96	31.24	23.35	32.57	-1,360.41	230.08	3,605.50	3,572.63	32.87	109.679	
8,900.00	8,863.36	5,822.76	5,512.97	31.52	23.50	27.62	-1,364.42	251.91	3,673.98	3,641.10	32.88	111.726	
9,000.00	8,940.19	5,850.00	5,517.84	31.81	23.71	24.33	-1,369.00	278.32	3,732.28	3,699.36	32.92	113.390	
9,100.00	9,004.76	5,850.00	5,517.84	32.12	23.71	22.28	-1,369.00	278.32	3,778.33	3,745.57	32.76	115.340	
9,200.00	9,055.12	5,850.00	5,517.84	32.51	23.71	20.96	-1,369.00	278.32	3,811.82	3,779.17	32.65	116.755	
9,300.00	9,089.74	5,877.20	5,521.45	32.98	23.93	20.20	-1,373.32	304.93	3,831.44	3,798.64	32.80	116.824	
9,400.00	9,107.57	5,900.00	5,523.51	33.55	24.12	19.97	-1,376.74	327.37	3,837.20	3,804.21	32.99	116.310	
9,500.00	9,110.00	5,900.00	5,523.51	34.22	24.12	20.17	-1,376.74	327.37	3,830.76	3,797.62	33.14	115.592	
9,600.00	9,110.00	5,922.43	5,524.68	35.02	24.32	20.31	-1,379.93	349.55	3,825.75	3,792.19	33.56	114.014	
9,700.00	9,110.00	6,087.10	5,525.00	35.95	25.99	20.25	-1,387.47	513.82	3,823.76	3,788.92	34.84	109.738	
9,800.00	9,110.00	6,186.94	5,525.00	37.00	27.20	20.23	-1,387.53	613.66	3,821.86	3,785.96	35.90	106.463	
9,897.50	9,110.00	6,284.42	5,525.00	38.12	28.54	20.21	-1,387.59	711.14	3,821.36	3,784.31	37.05	103.152	
9,900.00	9,110.00	6,286.93	5,525.00	38.15	28.57	20.22	-1,387.59	713.65	3,821.58	3,784.50	37.08	103.059	
10,000.00	9,110.00	6,386.93	5,525.00	39.40	30.08	20.22	-1,387.64	813.65	3,821.59	3,783.23	38.35	99.639	
10,100.00	9,110.00	6,486.93	5,525.00	40.74	31.68	20.22	-1,387.70	913.65	3,821.59	3,781.89	39.70	96.255	
10,200.00	9,110.00	6,586.93	5,525.00	42.17	33.38	20.22	-1,387.76	1,013.65	3,821.60	3,780.48	41.12	92.941	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com (Slot 1)
Site Error: 0.00 usft
Reference Well: #135H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #135H
TVD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
MD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #106H - OH - Prelim B												Offset Site Error: 0.00 usft	
Survey Program: 0-MWD-HDGM												Offset Well Error: 0.00 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)			
10,300.00	9,110.00	6,686.93	5,525.00	43.67	35.15	20.22	-1,387.82	1,113.65	3,821.60	3,779.00	42.60	89.719	
10,400.00	9,110.00	6,786.93	5,525.00	45.24	36.98	20.22	-1,387.88	1,213.65	3,821.60	3,777.48	44.13	86.604	
10,500.00	9,110.00	6,886.93	5,525.00	46.87	38.87	20.22	-1,387.93	1,313.65	3,821.61	3,775.90	45.71	83.608	
10,600.00	9,110.00	6,986.93	5,525.00	48.55	40.80	20.22	-1,387.99	1,413.65	3,821.61	3,774.28	47.33	80.736	
10,700.00	9,110.00	7,086.93	5,525.00	50.29	42.77	20.22	-1,388.05	1,513.65	3,821.61	3,772.61	49.00	77.991	
10,800.00	9,110.00	7,186.93	5,525.00	52.07	44.77	20.22	-1,388.11	1,613.65	3,821.62	3,770.91	50.70	75.371	
10,900.00	9,110.00	7,286.93	5,525.00	53.89	46.80	20.22	-1,388.17	1,713.65	3,821.62	3,769.18	52.44	72.876	
11,000.00	9,110.00	7,386.93	5,525.00	55.74	48.86	20.22	-1,388.22	1,813.65	3,821.62	3,767.42	54.21	70.502	
11,100.00	9,110.00	7,486.93	5,525.00	57.63	50.94	20.22	-1,388.28	1,913.65	3,821.63	3,765.63	56.00	68.244	
11,200.00	9,110.00	7,586.93	5,525.00	59.55	53.04	20.22	-1,388.34	2,013.65	3,821.63	3,763.81	57.82	66.098	
11,300.00	9,110.00	7,686.93	5,525.00	61.50	55.15	20.23	-1,388.40	2,113.65	3,821.63	3,761.98	59.66	64.059	
11,400.00	9,110.00	7,786.93	5,525.00	63.47	57.28	20.23	-1,388.46	2,213.65	3,821.64	3,760.12	61.52	62.121	
11,500.00	9,110.00	7,886.93	5,525.00	65.46	59.42	20.23	-1,388.51	2,313.65	3,821.64	3,758.24	63.40	60.278	
11,600.00	9,110.00	7,986.93	5,525.00	67.47	61.58	20.23	-1,388.57	2,413.65	3,821.65	3,756.35	65.30	58.527	
11,700.00	9,110.00	8,086.93	5,525.00	69.50	63.75	20.23	-1,388.63	2,513.65	3,821.65	3,754.44	67.21	56.861	
11,800.00	9,110.00	8,186.93	5,525.00	71.55	65.92	20.23	-1,388.69	2,613.65	3,821.65	3,752.51	69.14	55.275	
11,900.00	9,110.00	8,286.93	5,525.00	73.61	68.11	20.23	-1,388.75	2,713.65	3,821.66	3,750.58	71.08	53.765	
12,000.00	9,110.00	8,386.93	5,525.00	75.69	70.30	20.23	-1,388.80	2,813.65	3,821.66	3,748.63	73.03	52.327	
12,100.00	9,110.00	8,486.93	5,525.00	77.78	72.50	20.23	-1,388.86	2,913.65	3,821.66	3,746.66	75.00	50.956	
12,200.00	9,110.00	8,586.93	5,525.00	79.88	74.71	20.23	-1,388.92	3,013.65	3,821.67	3,744.69	76.98	49.648	
12,300.00	9,110.00	8,686.93	5,525.00	82.00	76.92	20.23	-1,388.98	3,113.65	3,821.67	3,742.71	78.96	48.400	
12,400.00	9,110.00	8,786.93	5,525.00	84.12	79.14	20.23	-1,389.04	3,213.65	3,821.67	3,740.72	80.96	47.207	
12,500.00	9,110.00	8,886.93	5,525.00	86.26	81.36	20.23	-1,389.09	3,313.65	3,821.68	3,738.72	82.96	46.067	
12,600.00	9,110.00	8,986.93	5,525.00	88.40	83.59	20.23	-1,389.15	3,413.65	3,821.68	3,736.71	84.97	44.977	
12,700.00	9,110.00	9,086.93	5,525.00	90.55	85.82	20.23	-1,389.21	3,513.65	3,821.69	3,734.70	86.99	43.933	
12,800.00	9,110.00	9,186.93	5,525.00	92.71	88.06	20.23	-1,389.27	3,613.65	3,821.69	3,732.68	89.01	42.934	
12,900.00	9,110.00	9,286.93	5,525.00	94.87	90.30	20.23	-1,389.33	3,713.65	3,821.69	3,730.65	91.05	41.976	
13,000.00	9,110.00	9,386.93	5,525.00	97.04	92.54	20.23	-1,389.38	3,813.65	3,821.70	3,728.61	93.08	41.057	
13,100.00	9,110.00	9,486.93	5,525.00	99.22	94.79	20.23	-1,389.44	3,913.65	3,821.70	3,726.57	95.13	40.175	
13,200.00	9,110.00	9,586.93	5,525.00	101.40	97.04	20.23	-1,389.50	4,013.65	3,821.70	3,724.53	97.17	39.328	
13,300.00	9,110.00	9,686.93	5,525.00	103.59	99.29	20.23	-1,389.56	4,113.65	3,821.71	3,722.48	99.23	38.514	
13,400.00	9,110.00	9,786.93	5,525.00	105.79	101.54	20.23	-1,389.61	4,213.65	3,821.71	3,720.42	101.29	37.732	
13,500.00	9,110.00	9,886.93	5,525.00	107.99	103.80	20.23	-1,389.67	4,313.65	3,821.71	3,718.37	103.35	36.979	
13,600.00	9,110.00	9,986.93	5,525.00	110.19	106.06	20.23	-1,389.73	4,413.65	3,821.72	3,716.30	105.41	36.254	
13,700.00	9,110.00	10,086.93	5,525.00	112.40	108.32	20.23	-1,389.79	4,513.65	3,821.72	3,714.24	107.49	35.556	
13,800.00	9,110.00	10,186.93	5,525.00	114.61	110.58	20.23	-1,389.85	4,613.65	3,821.72	3,712.17	109.56	34.883	
13,900.00	9,110.00	10,286.93	5,525.00	116.83	112.85	20.23	-1,389.90	4,713.65	3,821.73	3,710.09	111.64	34.233	
14,000.00	9,110.00	10,386.93	5,525.00	119.04	115.11	20.23	-1,389.96	4,813.65	3,821.73	3,708.01	113.72	33.607	
14,100.00	9,110.00	10,486.93	5,525.00	121.27	117.38	20.23	-1,390.02	4,913.65	3,821.74	3,705.93	115.80	33.002	
14,200.00	9,110.00	10,586.93	5,525.00	123.49	119.65	20.23	-1,390.08	5,013.65	3,821.74	3,703.85	117.89	32.418	
14,300.00	9,110.00	10,686.93	5,525.00	125.72	121.92	20.23	-1,390.14	5,113.65	3,821.74	3,701.76	119.98	31.854	
14,400.00	9,110.00	10,786.93	5,525.00	127.95	124.20	20.23	-1,390.19	5,213.65	3,821.75	3,699.68	122.07	31.308	
14,500.00	9,110.00	10,886.93	5,525.00	130.19	126.47	20.23	-1,390.25	5,313.65	3,821.75	3,697.58	124.17	30.779	
14,600.00	9,110.00	10,986.93	5,525.00	132.42	128.75	20.23	-1,390.31	5,413.65	3,821.75	3,695.49	126.26	30.268	
14,700.00	9,110.00	11,086.93	5,525.00	134.66	131.02	20.23	-1,390.37	5,513.65	3,821.76	3,693.39	128.36	29.773	
14,800.00	9,110.00	11,186.93	5,525.00	136.90	133.30	20.23	-1,390.43	5,613.65	3,821.76	3,691.30	130.46	29.294	
14,900.00	9,110.00	11,286.93	5,525.00	139.15	135.58	20.23	-1,390.48	5,713.65	3,821.76	3,689.20	132.57	28.829	
15,000.00	9,110.00	11,386.93	5,525.00	141.39	137.86	20.23	-1,390.54	5,813.65	3,821.77	3,687.09	134.67	28.378	
15,100.00	9,110.00	11,486.93	5,525.00	143.64	140.14	20.23	-1,390.60	5,913.65	3,821.77	3,684.99	136.78	27.941	
15,200.00	9,110.00	11,586.93	5,525.00	145.89	142.42	20.23	-1,390.66	6,013.65	3,821.78	3,682.88	138.89	27.516	
15,300.00	9,110.00	11,686.93	5,525.00	148.14	144.70	20.23	-1,390.72	6,113.65	3,821.78	3,680.78	141.00	27.104	
15,400.00	9,110.00	11,786.93	5,525.00	150.39	146.99	20.23	-1,390.77	6,213.65	3,821.78	3,678.67	143.11	26.704	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #106H - OH - Prelim B													Offset Site Error
Survey Program: 0 MWD-HDGM													Offset Well Error
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)	Semi-Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,500.00	9,110.00	11,886.93	5,525.00	152.65	149.27	20.23	-1,390.83	6,313.65	3,821.79	3,676.56	145.23	26.316	
15,600.00	9,110.00	11,986.93	5,525.00	154.91	151.56	20.23	-1,390.89	6,413.65	3,821.79	3,674.44	147.34	25.938	
15,700.00	9,110.00	12,086.93	5,525.00	157.16	153.84	20.23	-1,390.95	6,513.65	3,821.79	3,672.33	149.46	25.570	
15,800.00	9,110.00	12,186.93	5,525.00	159.42	156.13	20.23	-1,391.01	6,613.65	3,821.80	3,670.22	151.58	25.213	
15,900.00	9,110.00	12,286.93	5,525.00	161.68	158.42	20.23	-1,391.06	6,713.65	3,821.80	3,668.10	153.70	24.865	
16,000.00	9,110.00	12,386.93	5,525.00	163.95	160.70	20.23	-1,391.12	6,813.65	3,821.80	3,665.98	155.82	24.527	
16,100.00	9,110.00	12,486.93	5,525.00	166.21	162.99	20.23	-1,391.18	6,913.65	3,821.81	3,663.86	157.94	24.197	
16,200.00	9,110.00	12,586.93	5,525.00	168.47	165.28	20.23	-1,391.24	7,013.65	3,821.81	3,661.74	160.07	23.876	
16,300.00	9,110.00	12,686.93	5,525.00	170.74	167.57	20.23	-1,391.30	7,113.65	3,821.81	3,659.62	162.19	23.563	
16,400.00	9,110.00	12,786.93	5,525.00	173.01	169.86	20.23	-1,391.35	7,213.65	3,821.82	3,657.50	164.32	23.259	
16,500.00	9,110.00	12,886.93	5,525.00	175.28	172.15	20.23	-1,391.41	7,313.65	3,821.82	3,655.38	166.45	22.961	
16,600.00	9,110.00	12,986.93	5,525.00	177.54	174.44	20.23	-1,391.47	7,413.65	3,821.83	3,653.25	168.57	22.672	
16,700.00	9,110.00	13,086.93	5,525.00	179.82	176.73	20.23	-1,391.53	7,513.65	3,821.83	3,651.13	170.70	22.389	
16,800.00	9,110.00	13,186.93	5,525.00	182.09	179.02	20.23	-1,391.59	7,613.65	3,821.83	3,649.00	172.83	22.113	
16,900.00	9,110.00	13,286.93	5,525.00	184.36	181.31	20.23	-1,391.64	7,713.65	3,821.84	3,646.87	174.96	21.844	
17,000.00	9,110.00	13,386.93	5,525.00	186.63	183.61	20.23	-1,391.70	7,813.65	3,821.84	3,644.75	177.09	21.581	
17,100.00	9,110.00	13,486.93	5,525.00	188.91	185.90	20.23	-1,391.76	7,913.65	3,821.84	3,642.62	179.23	21.324	
17,200.00	9,110.00	13,586.93	5,525.00	191.18	188.19	20.23	-1,391.82	8,013.65	3,821.85	3,640.49	181.36	21.073	
17,300.00	9,110.00	13,686.93	5,525.00	193.46	190.49	20.23	-1,391.87	8,113.65	3,821.85	3,638.36	183.49	20.828	
17,400.00	9,110.00	13,786.93	5,525.00	195.73	192.78	20.23	-1,391.93	8,213.65	3,821.85	3,636.23	185.63	20.589	
17,500.00	9,110.00	13,886.93	5,525.00	198.01	195.07	20.23	-1,391.99	8,313.65	3,821.86	3,634.09	187.76	20.355	
17,600.00	9,110.00	13,986.93	5,525.00	200.29	197.37	20.23	-1,392.05	8,413.65	3,821.86	3,631.96	189.90	20.126	
17,700.00	9,110.00	14,086.93	5,525.00	202.56	199.66	20.23	-1,392.11	8,513.65	3,821.87	3,629.83	192.04	19.902	
17,800.00	9,110.00	14,186.93	5,525.00	204.84	201.96	20.23	-1,392.16	8,613.65	3,821.87	3,627.69	194.18	19.683	
17,900.00	9,110.00	14,286.93	5,525.00	207.12	204.26	20.23	-1,392.22	8,713.65	3,821.87	3,625.56	196.31	19.468	
18,000.00	9,110.00	14,386.93	5,525.00	209.40	206.55	20.23	-1,392.28	8,813.65	3,821.88	3,623.42	198.45	19.258	
18,100.00	9,110.00	14,486.93	5,525.00	211.69	208.85	20.24	-1,392.34	8,913.65	3,821.88	3,621.29	200.59	19.053	
18,200.00	9,110.00	14,586.93	5,525.00	213.97	211.14	20.24	-1,392.40	9,013.65	3,821.88	3,619.15	202.73	18.852	
18,300.00	9,110.00	14,686.93	5,525.00	216.25	213.44	20.24	-1,392.45	9,113.65	3,821.89	3,617.01	204.87	18.655	
18,400.00	9,110.00	14,786.93	5,525.00	218.53	215.74	20.24	-1,392.51	9,213.65	3,821.89	3,614.88	207.01	18.462	
18,500.00	9,110.00	14,886.93	5,525.00	220.82	218.04	20.24	-1,392.57	9,313.65	3,821.89	3,612.74	209.16	18.273	
18,600.00	9,110.00	14,986.93	5,525.00	223.10	220.33	20.24	-1,392.63	9,413.65	3,821.90	3,610.60	211.30	18.088	
18,700.00	9,110.00	15,086.93	5,525.00	225.38	222.63	20.24	-1,392.69	9,513.65	3,821.90	3,608.46	213.44	17.906	
18,800.00	9,110.00	15,186.93	5,525.00	227.67	224.93	20.24	-1,392.74	9,613.65	3,821.90	3,606.32	215.58	17.728	
18,900.00	9,110.00	15,286.93	5,525.00	229.95	227.23	20.24	-1,392.80	9,713.65	3,821.91	3,604.18	217.73	17.554	
19,000.00	9,110.00	15,386.93	5,525.00	232.24	229.52	20.24	-1,392.86	9,813.65	3,821.91	3,602.04	219.87	17.383	
19,100.00	9,110.00	15,486.93	5,525.00	234.53	231.82	20.24	-1,392.92	9,913.65	3,821.92	3,599.90	222.02	17.215	
19,200.00	9,110.00	15,586.93	5,525.00	236.81	234.12	20.24	-1,392.98	10,013.65	3,821.92	3,597.76	224.16	17.050	
19,237.58	9,110.00	15,624.51	5,525.00	237.36	234.99	20.24	-1,393.00	10,051.23	3,821.92	3,597.13	224.80	17.002 SF	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim-A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #112H- OH - Prelim B												Offset Site Error:	0.00 usft
Survey Program: 0-MWD-HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)
0.00	0.00	1.00	1.00	0.00	0.00	-166.06	-560.00	-139.00	576.99				
100.00	100.00	101.00	101.00	0.13	0.13	-166.06	-560.00	-139.00	576.99	576.73	0.26	2,220.124	
200.00	200.00	201.00	201.00	0.49	0.49	-166.06	-560.00	-139.00	576.99	576.02	0.98	590.676	
300.00	300.00	301.00	301.00	0.85	0.85	-166.06	-560.00	-139.00	576.99	575.30	1.69	340.654	
400.00	400.00	401.00	401.00	1.20	1.21	-166.06	-560.00	-139.00	576.99	574.58	2.41	239.345	
500.00	500.00	501.00	501.00	1.56	1.57	-166.06	-560.00	-139.00	576.99	573.87	3.13	184.480	
600.00	600.00	601.00	601.00	1.92	1.92	-166.06	-560.00	-139.00	576.99	573.15	3.84	150.079	
700.00	700.00	701.00	701.00	2.28	2.28	-166.06	-560.00	-139.00	576.99	572.43	4.56	126.491	
800.00	800.00	801.00	801.00	2.64	2.64	-166.06	-560.00	-139.00	576.99	571.71	5.28	109.310	
900.00	900.00	901.00	901.00	3.00	3.00	-166.06	-560.00	-139.00	576.99	571.00	6.00	96.239	
1,000.00	1,000.00	1,001.00	1,001.00	3.35	3.36	-166.06	-560.00	-139.00	576.99	570.28	6.71	85.960 CC	
1,100.00	1,099.98	1,100.98	1,100.98	3.71	3.72	-94.55	-560.00	-139.00	577.13	569.71	7.42	77.742	
1,200.00	1,199.84	1,200.84	1,200.84	4.06	4.07	-95.05	-560.00	-139.00	577.57	569.44	8.13	71.028 ES	
1,300.00	1,299.45	1,300.45	1,300.45	4.41	4.43	-95.89	-560.00	-139.00	578.40	569.56	8.84	65.404	
1,400.00	1,398.88	1,400.12	1,399.88	4.77	4.79	-96.94	-560.00	-139.00	579.60	570.04	9.56	60.622	
1,500.00	1,498.31	1,499.31	1,499.31	5.14	5.14	-97.98	-560.00	-139.00	581.00	570.72	10.28	56.514	
1,600.00	1,597.74	1,595.57	1,595.56	5.50	5.48	-98.82	-560.00	-140.59	582.85	571.87	10.98	53.061	
1,700.00	1,697.16	1,707.98	1,691.87	5.87	5.87	-99.36	-560.00	-145.42	585.35	573.61	11.74	49.857	
1,800.00	1,796.59	1,808.09	1,791.52	6.24	6.22	-99.71	-560.00	-152.39	588.19	575.73	12.46	47.205	
1,900.00	1,896.02	1,908.20	1,891.17	6.62	6.57	-100.07	-560.00	-159.36	591.05	577.86	13.18	44.831	
2,000.00	1,995.45	2,008.31	1,990.82	6.99	6.92	-100.42	-560.00	-166.33	593.93	580.02	13.91	42.694	
2,100.00	2,094.87	2,108.41	2,090.47	7.37	7.27	-100.76	-560.00	-173.29	596.84	582.19	14.64	40.763	
2,200.00	2,194.30	2,191.48	2,190.12	7.75	7.57	-101.11	-560.00	-180.26	599.76	584.45	15.31	39.165	
2,300.00	2,293.73	2,308.63	2,289.77	8.13	7.99	-101.44	-560.00	-187.23	602.71	586.60	16.11	37.412	
2,400.00	2,393.16	2,408.73	2,389.42	8.50	8.35	-101.78	-560.00	-194.20	605.68	588.83	16.85	35.952	
2,500.00	2,492.59	2,508.84	2,489.07	8.88	8.71	-102.11	-560.00	-201.17	608.67	591.08	17.59	34.611	
2,600.00	2,592.01	2,608.95	2,588.72	9.26	9.07	-102.44	-560.00	-208.14	611.68	593.35	18.33	33.377	
2,700.00	2,691.44	2,709.05	2,688.37	9.64	9.43	-102.77	-560.00	-215.10	614.71	595.64	19.07	32.238	
2,800.00	2,790.87	2,809.16	2,788.02	10.03	9.79	-103.09	-560.00	-222.07	617.76	597.95	19.81	31.183	
2,900.00	2,890.30	2,909.27	2,887.67	10.41	10.16	-103.41	-560.00	-229.04	620.83	600.27	20.55	30.204	
3,000.00	2,989.72	2,990.62	2,987.32	10.79	10.45	-103.73	-560.00	-236.01	623.92	602.69	21.23	29.386	
3,100.00	3,089.15	3,076.41	3,072.91	11.17	10.76	-104.04	-580.85	-241.61	628.00	606.09	21.91	28.661	
3,200.00	3,188.58	3,159.81	3,156.13	11.56	11.06	-104.44	-563.90	-246.07	634.67	612.11	22.56	28.129	
3,300.00	3,288.01	3,242.73	3,238.82	11.94	11.34	-104.93	-569.13	-249.51	643.95	620.76	23.19	27.766	
3,400.00	3,387.43	3,332.50	3,328.20	12.32	11.65	-105.54	-576.95	-252.27	655.61	631.76	23.85	27.488	
3,500.00	3,486.86	3,431.46	3,426.71	12.70	11.99	-106.21	-585.94	-255.14	667.75	643.19	24.57	27.181	
3,600.00	3,586.29	3,530.42	3,525.22	13.09	12.33	-106.85	-594.93	-258.01	679.98	654.70	25.29	26.893	
3,700.00	3,685.72	3,629.39	3,623.74	13.47	12.68	-107.47	-603.91	-260.88	692.29	666.29	26.00	26.622	
3,800.00	3,785.15	3,728.35	3,722.25	13.86	13.02	-108.07	-612.90	-263.75	704.68	677.96	26.73	26.368	
3,900.00	3,884.60	3,827.35	3,820.79	14.24	13.37	-108.72	-621.89	-266.62	717.05	689.61	27.45	26.126	
4,000.00	3,984.31	3,926.60	3,919.59	14.61	13.72	-109.26	-630.91	-269.50	728.55	700.39	28.16	25.872	
4,100.00	4,084.23	4,026.05	4,018.59	14.97	14.07	-109.51	-639.94	-272.39	738.91	710.05	28.86	25.601	
4,200.00	4,184.22	4,125.59	4,117.68	15.31	14.43	-109.87	-648.98	-275.28	748.18	718.63	29.55	25.317	
4,300.00	4,284.22	4,225.13	4,216.77	15.65	14.78	-109.90	-658.02	-278.16	757.22	726.98	30.24	25.040	
4,400.00	4,384.22	4,324.68	4,315.86	15.99	15.14	-109.93	-667.07	-281.05	766.26	735.33	30.93	24.774	
4,500.00	4,484.22	4,424.22	4,414.95	16.33	15.50	-109.95	-676.11	-283.94	775.32	743.70	31.62	24.519	
4,600.00	4,584.22	4,523.77	4,514.04	16.67	15.86	-109.97	-685.15	-286.83	784.39	752.08	32.31	24.274	
4,700.00	4,684.22	4,623.31	4,613.13	17.02	16.22	-109.98	-694.19	-289.71	793.47	760.47	33.01	24.040	
4,800.00	4,784.22	4,722.85	4,712.22	17.36	16.58	-109.91	-703.23	-292.60	802.56	768.86	33.70	23.814	
4,900.00	4,884.22	4,853.81	4,842.77	17.70	17.05	-109.81	-712.89	-295.69	810.02	775.44	34.58	23.423	
5,000.00	4,984.22	4,990.84	4,979.73	18.05	17.53	-109.51	-716.93	-296.98	812.98	777.54	35.44	22.940	
5,100.00	5,084.22	5,103.66	5,085.22	18.39	17.92	-109.51	-717.00	-297.00	813.03	776.86	36.17	22.477	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #112H - OH - Prelim B													Offset Site Error:
Survey Program: 0-MWD-HDGM													0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		Warning		Offset Well Error:	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	Depth	Depth	Toolface	N-S	Centres	Ellipses	Separation	Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)			
5,200.00	5,184.22	5,203.66	5,185.22	18.74	18.26	-179.51	-717.00	-297.00	813.03	776.17	36.86	22.057	
5,300.00	5,284.22	5,303.66	5,285.22	19.08	18.60	-179.51	-717.00	-297.00	813.03	775.48	37.55	21.651	
5,400.00	5,384.22	5,403.66	5,385.22	19.43	18.94	-179.51	-717.00	-297.00	813.03	774.79	38.24	21.260	
5,500.00	5,484.22	5,503.66	5,485.22	19.77	19.29	-179.51	-717.00	-297.00	813.03	774.09	38.94	20.882	
5,600.00	5,584.22	5,603.66	5,585.22	20.12	19.63	-179.51	-717.00	-297.00	813.03	773.40	39.63	20.516	
5,700.00	5,684.22	5,703.66	5,685.22	20.47	19.97	-179.51	-717.00	-297.00	813.03	772.71	40.32	20.163	
5,800.00	5,784.22	5,803.66	5,785.22	20.82	20.32	-179.51	-717.00	-297.00	813.03	772.01	41.02	19.822	
5,900.00	5,884.22	5,903.66	5,885.22	21.16	20.66	-179.51	-717.00	-297.00	813.03	771.32	41.71	19.491	
6,000.00	5,984.22	6,003.66	5,985.22	21.51	21.01	-179.51	-717.00	-297.00	813.03	770.62	42.41	19.171	
6,100.00	6,084.22	6,103.66	6,085.22	21.86	21.35	-179.51	-717.00	-297.00	813.03	769.92	43.11	18.861	
6,200.00	6,184.22	6,203.66	6,185.22	22.21	21.70	-179.51	-717.00	-297.00	813.03	769.23	43.80	18.561	
6,300.00	6,284.22	6,296.34	6,285.22	22.56	22.02	-179.51	-717.00	-297.00	813.03	768.55	44.48	18.280	
6,400.00	6,384.22	6,385.20	6,373.98	22.91	22.32	-179.71	-717.41	-294.09	813.50	768.38	45.13	18.027	
6,500.00	6,484.22	6,466.76	6,454.26	23.26	22.58	-179.31	-719.38	-280.25	816.03	770.31	45.72	17.849	
6,600.00	6,584.22	6,542.95	6,526.77	23.61	22.81	-177.71	-722.66	-257.24	821.40	775.16	46.23	17.766	
6,700.00	6,684.22	6,611.93	6,589.24	23.96	23.00	-175.72	-726.77	-228.37	830.64	784.01	46.63	17.813	
6,800.00	6,784.22	6,672.97	6,641.24	24.31	23.16	-173.57	-731.26	-196.78	844.86	798.01	46.85	18.033	
6,900.00	6,884.22	6,726.22	6,683.61	24.66	23.31	-171.45	-735.80	-164.89	864.98	818.13	46.85	18.462	
7,000.00	6,984.22	6,772.32	6,717.75	25.01	23.45	-169.45	-740.17	-134.23	891.62	845.00	46.61	19.129	
7,100.00	7,084.22	6,812.13	6,745.14	25.36	23.59	-167.62	-744.23	-105.64	925.01	878.87	46.14	20.048	
7,200.00	7,184.22	6,850.00	6,769.28	25.71	23.74	-165.83	-748.34	-76.76	965.09	919.58	45.51	21.207	
7,300.00	7,284.22	6,876.38	6,784.94	26.07	23.85	-164.55	-751.34	-55.74	1,011.50	966.88	44.63	22.665	
7,400.00	7,384.22	6,900.00	6,798.11	26.42	23.96	-163.39	-754.10	-36.34	1,063.82	1,020.17	43.66	24.368	
7,500.00	7,484.22	6,925.12	6,811.21	26.77	24.09	-162.14	-757.12	-15.12	1,121.45	1,078.73	42.72	26.253	
7,600.00	7,584.22	6,950.00	6,823.26	27.12	24.21	-160.90	-760.18	6.43	1,183.85	1,142.05	41.80	28.322	
7,700.00	7,684.22	6,950.00	6,823.26	27.48	24.21	-160.90	-760.18	6.43	1,250.56	1,210.00	40.56	30.831	
7,800.00	7,784.22	6,978.60	6,835.93	27.83	24.38	-159.48	-763.80	31.81	1,320.60	1,280.75	39.84	33.144	
7,900.00	7,884.22	7,000.00	6,844.56	28.18	24.50	-158.42	-766.56	51.20	1,394.06	1,354.97	39.09	35.659	
8,000.00	7,984.22	7,000.00	6,844.56	28.53	24.50	-158.42	-766.56	51.20	1,470.22	1,432.09	38.13	38.561	
8,100.00	8,084.22	7,016.75	6,850.80	28.89	24.61	-157.59	-768.75	66.58	1,548.79	1,511.30	37.49	41.310	
8,200.00	8,184.22	7,027.09	6,854.42	29.24	24.68	-157.08	-770.11	76.17	1,629.50	1,592.64	36.85	44.214	
8,300.00	8,284.22	7,050.00	6,861.83	29.59	24.83	-155.96	-773.16	97.63	1,712.24	1,675.78	36.46	46.967	
8,400.00	8,384.22	7,050.00	6,861.83	29.95	24.83	-155.96	-773.16	97.63	1,796.23	1,760.38	35.85	50.105	
8,500.00	8,484.22	7,050.00	6,861.83	30.30	24.83	-155.96	-773.16	97.63	1,881.79	1,846.46	35.32	53.274	
8,600.00	8,584.17	7,050.00	6,861.83	30.65	24.83	-147.71	-773.16	97.63	1,968.11	1,933.25	34.85	56.466	
8,700.00	8,682.61	7,070.98	6,867.84	30.96	24.98	-137.35	-776.00	117.53	2,049.87	2,015.29	34.57	59.290	
8,800.00	8,776.63	7,100.00	6,874.95	31.24	25.19	-130.46	-779.96	145.38	2,125.05	2,090.72	34.33	61.901	
8,900.00	8,863.36	7,100.00	6,874.95	31.52	25.19	-126.27	-779.96	145.38	2,191.06	2,157.27	33.79	64.847	
9,000.00	8,940.19	7,100.00	6,874.95	31.81	25.19	-123.39	-779.96	145.38	2,247.58	2,214.30	33.28	67.526	
9,100.00	9,004.76	7,150.00	6,883.81	32.12	25.59	-121.12	-786.89	194.09	2,292.68	2,259.44	33.24	68.975	
9,200.00	9,055.12	7,150.00	6,883.81	32.51	25.59	-119.89	-786.89	194.09	2,325.57	2,292.69	32.88	70.736	
9,300.00	9,089.74	7,173.69	6,886.51	32.98	25.80	-119.10	-790.21	217.39	2,346.07	2,313.27	32.80	71.516	
9,400.00	9,107.57	7,200.00	6,888.35	33.55	26.03	-118.80	-793.91	243.37	2,353.65	2,320.78	32.88	71.589	
9,500.00	9,110.00	7,214.47	6,888.86	34.22	26.16	-118.89	-795.94	257.68	2,350.06	2,317.01	33.05	71.106	
9,600.00	9,110.00	7,278.98	6,889.00	35.02	26.79	-118.90	-804.57	321.61	2,348.69	2,315.09	33.60	69.906	
9,700.00	9,110.00	7,415.12	6,889.00	35.95	28.31	-118.88	-818.09	457.06	2,348.42	2,313.85	34.57	67.942	
9,800.00	9,110.00	7,551.22	6,889.00	37.00	30.08	-118.88	-825.17	592.96	2,348.30	2,312.62	35.68	65.815	
9,876.91	9,110.00	7,649.13	6,889.00	37.88	31.47	-118.86	-826.32	690.87	2,348.12	2,311.54	36.58	64.190	
9,900.00	9,110.00	7,672.22	6,889.00	38.15	31.81	-118.88	-826.34	713.96	2,348.31	2,311.47	36.84	63.745	
10,000.00	9,110.00	7,772.22	6,889.00	39.40	33.36	-118.88	-826.40	813.96	2,348.31	2,310.32	37.99	61.809	
10,100.00	9,110.00	7,872.22	6,889.00	40.74	34.98	-118.88	-826.46	913.96	2,348.32	2,309.09	39.22	59.870	
10,200.00	9,110.00	7,972.22	6,889.00	42.17	36.68	-118.88	-826.52	1,013.96	2,348.32	2,307.80	40.53	57.947	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim-A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com #112H OH Prelim B														Offset Site Error:
Survey Program: 0-MWD-HDCM														Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,300.00	9,110.00	8,072.22	6,889.00	43.67	38.44	18.88	-826.58	1,113.96	2,348.33	2,306.43	41.89	56.059		
10,400.00	9,110.00	8,172.22	6,889.00	45.24	40.26	18.88	-826.64	1,213.96	2,348.33	2,305.02	43.31	54.217		
10,500.00	9,110.00	8,272.22	6,889.00	46.87	42.13	18.88	-826.70	1,313.96	2,348.33	2,303.54	44.79	52.431		
10,600.00	9,110.00	8,372.22	6,889.00	48.55	44.03	18.88	-826.76	1,413.96	2,348.34	2,302.03	46.31	50.707		
10,700.00	9,110.00	8,472.22	6,889.00	50.29	45.98	18.88	-826.82	1,513.96	2,348.34	2,300.46	47.88	49.048		
10,800.00	9,110.00	8,572.22	6,889.00	52.07	47.95	18.88	-826.88	1,613.96	2,348.35	2,298.86	49.48	47.458		
10,900.00	9,110.00	8,672.22	6,889.00	53.89	49.96	18.88	-826.94	1,713.96	2,348.35	2,297.23	51.12	45.935		
11,000.00	9,110.00	8,772.22	6,889.00	55.74	51.99	18.88	-827.00	1,813.96	2,348.35	2,295.56	52.80	44.480		
11,100.00	9,110.00	8,872.22	6,889.00	57.63	54.04	18.88	-827.06	1,913.96	2,348.36	2,293.86	54.50	43.092		
11,200.00	9,110.00	8,972.22	6,889.00	59.55	56.11	18.88	-827.12	2,013.96	2,348.36	2,292.14	56.22	41.767		
11,300.00	9,110.00	9,072.22	6,889.00	61.50	58.20	18.88	-827.18	2,113.96	2,348.37	2,290.39	57.98	40.505		
11,400.00	9,110.00	9,172.22	6,889.00	63.47	60.31	18.88	-827.25	2,213.96	2,348.37	2,288.62	59.75	39.302		
11,500.00	9,110.00	9,272.22	6,889.00	65.46	62.43	18.88	-827.31	2,313.96	2,348.38	2,286.83	61.55	38.157		
11,600.00	9,110.00	9,372.22	6,889.00	67.47	64.56	18.88	-827.37	2,413.96	2,348.38	2,285.02	63.36	37.065		
11,700.00	9,110.00	9,472.22	6,889.00	69.50	66.71	18.88	-827.43	2,513.96	2,348.38	2,283.20	65.19	36.024		
11,800.00	9,110.00	9,572.22	6,889.00	71.55	68.86	18.88	-827.49	2,613.96	2,348.39	2,281.35	67.03	35.032		
11,900.00	9,110.00	9,672.22	6,889.00	73.61	71.03	18.88	-827.55	2,713.96	2,348.39	2,279.50	68.90	34.086		
12,000.00	9,110.00	9,772.22	6,889.00	75.69	73.20	18.88	-827.61	2,813.96	2,348.40	2,277.63	70.77	33.184		
12,100.00	9,110.00	9,872.22	6,889.00	77.78	75.38	18.88	-827.67	2,913.96	2,348.40	2,275.75	72.65	32.323		
12,200.00	9,110.00	9,972.22	6,889.00	79.88	77.57	18.88	-827.73	3,013.96	2,348.41	2,273.85	74.55	31.500		
12,300.00	9,110.00	10,072.22	6,889.00	82.00	79.77	18.88	-827.79	3,113.96	2,348.41	2,271.95	76.46	30.714		
12,400.00	9,110.00	10,172.22	6,889.00	84.12	81.97	18.88	-827.85	3,213.96	2,348.41	2,270.04	78.38	29.963		
12,500.00	9,110.00	10,272.22	6,889.00	86.26	84.18	18.89	-827.91	3,313.96	2,348.42	2,268.11	80.30	29.244		
12,600.00	9,110.00	10,372.22	6,889.00	88.40	86.39	18.89	-827.97	3,413.96	2,348.42	2,266.18	82.24	28.556		
12,700.00	9,110.00	10,472.22	6,889.00	90.55	88.61	18.89	-828.03	3,513.96	2,348.43	2,264.24	84.18	27.897		
12,800.00	9,110.00	10,572.22	6,889.00	92.71	90.83	18.89	-828.09	3,613.96	2,348.43	2,262.30	86.13	27.265		
12,900.00	9,110.00	10,672.22	6,889.00	94.87	93.06	18.89	-828.16	3,713.96	2,348.43	2,260.35	88.09	26.660		
13,000.00	9,110.00	10,772.22	6,889.00	97.04	95.29	18.89	-828.22	3,813.96	2,348.44	2,258.39	90.05	26.078		
13,100.00	9,110.00	10,872.22	6,889.00	99.22	97.52	18.89	-828.28	3,913.96	2,348.44	2,256.42	92.02	25.520		
13,200.00	9,110.00	10,972.22	6,889.00	101.40	99.76	18.89	-828.34	4,013.96	2,348.45	2,254.45	94.00	24.984		
13,300.00	9,110.00	11,072.22	6,889.00	103.59	102.00	18.89	-828.40	4,113.96	2,348.45	2,252.47	95.98	24.468		
13,400.00	9,110.00	11,172.22	6,889.00	105.79	104.25	18.89	-828.46	4,213.96	2,348.46	2,250.49	97.97	23.972		
13,500.00	9,110.00	11,272.22	6,889.00	107.99	106.49	18.89	-828.52	4,313.96	2,348.46	2,248.50	99.96	23.495		
13,600.00	9,110.00	11,372.22	6,889.00	110.19	108.74	18.89	-828.58	4,413.96	2,348.46	2,246.51	101.95	23.035		
13,700.00	9,110.00	11,472.22	6,889.00	112.40	110.99	18.89	-828.64	4,513.96	2,348.47	2,244.52	103.95	22.592		
13,800.00	9,110.00	11,572.22	6,889.00	114.61	113.25	18.89	-828.70	4,613.96	2,348.47	2,242.52	105.95	22.165		
13,900.00	9,110.00	11,672.22	6,889.00	116.83	115.50	18.89	-828.76	4,713.96	2,348.48	2,240.52	107.96	21.753		
14,000.00	9,110.00	11,772.22	6,889.00	119.04	117.76	18.89	-828.82	4,813.96	2,348.48	2,238.51	109.97	21.356		
14,100.00	9,110.00	11,872.22	6,889.00	121.27	120.02	18.89	-828.88	4,913.96	2,348.49	2,236.50	111.98	20.972		
14,200.00	9,110.00	11,972.22	6,889.00	123.49	122.28	18.89	-828.94	5,013.96	2,348.49	2,234.49	114.00	20.601		
14,300.00	9,110.00	12,072.22	6,889.00	125.72	124.55	18.89	-829.00	5,113.96	2,348.49	2,232.47	116.02	20.242		
14,400.00	9,110.00	12,172.22	6,889.00	127.95	126.81	18.89	-829.06	5,213.96	2,348.50	2,230.46	118.04	19.895		
14,500.00	9,110.00	12,272.22	6,889.00	130.19	129.08	18.89	-829.13	5,313.96	2,348.50	2,228.43	120.07	19.560		
14,600.00	9,110.00	12,372.22	6,889.00	132.42	131.35	18.89	-829.19	5,413.96	2,348.51	2,226.41	122.10	19.235		
14,700.00	9,110.00	12,472.22	6,889.00	134.66	133.62	18.89	-829.25	5,513.96	2,348.51	2,224.38	124.13	18.920		
14,800.00	9,110.00	12,572.22	6,889.00	136.90	135.89	18.89	-829.31	5,613.96	2,348.52	2,222.36	126.16	18.616		
14,900.00	9,110.00	12,672.22	6,889.00	139.15	138.16	18.89	-829.37	5,713.96	2,348.52	2,220.33	128.19	18.320		
15,000.00	9,110.00	12,772.22	6,889.00	141.39	140.43	18.89	-829.43	5,813.96	2,348.52	2,218.29	130.23	18.034		
15,100.00	9,110.00	12,872.22	6,889.00	143.64	142.71	18.89	-829.49	5,913.96	2,348.53	2,216.26	132.27	17.756		
15,200.00	9,110.00	12,972.22	6,889.00	145.89	144.99	18.89	-829.55	6,013.96	2,348.53	2,214.22	134.31	17.486		
15,300.00	9,110.00	13,072.22	6,889.00	148.14	147.26	18.89	-829.61	6,113.96	2,348.54	2,212.18	136.35	17.224		
15,400.00	9,110.00	13,172.22	6,889.00	150.39	149.54	18.89	-829.67	6,213.96	2,348.54	2,210.14	138.40	16.969		

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #112H - OH - Prelim B													Offset Site Error:
Survey Program: 0-MWD-HDGM													Offset Well Error:
Reference	Offset	Semi-Major Axis	Distance	Warning									
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	Minimum	Separation		
Depth	Depth	Depth	Depth	(usft)	(usft)	Toolface	N/S	E/W	Centres	Ellipses	Separation	Factor	
(usft)	(usft)	(usft)	(usft)			(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
15,500.00	9,110.00	13,272.22	6,889.00	152.65	151.82	18.89	-829.73	6,313.96	2,348.54	2,208.10	140.45	16.722	
15,600.00	9,110.00	13,372.22	6,889.00	154.91	154.10	18.89	-829.79	6,413.96	2,348.55	2,206.06	142.49	16.482	
15,700.00	9,110.00	13,472.22	6,889.00	157.16	156.38	18.89	-829.85	6,513.96	2,348.55	2,204.01	144.54	16.248	
15,800.00	9,110.00	13,572.22	6,889.00	159.42	158.66	18.90	-829.91	6,613.96	2,348.56	2,201.96	146.59	16.021	
15,900.00	9,110.00	13,672.22	6,889.00	161.68	160.94	18.90	-829.97	6,713.96	2,348.56	2,199.91	148.65	15.800	
16,000.00	9,110.00	13,772.22	6,889.00	163.95	163.22	18.90	-830.04	6,813.96	2,348.57	2,197.87	150.70	15.584	
16,100.00	9,110.00	13,872.22	6,889.00	166.21	165.51	18.90	-830.10	6,913.96	2,348.57	2,195.81	152.76	15.375	
16,200.00	9,110.00	13,972.22	6,889.00	168.47	167.79	18.90	-830.16	7,013.96	2,348.57	2,193.76	154.81	15.170	
16,300.00	9,110.00	14,072.22	6,889.00	170.74	170.08	18.90	-830.22	7,113.96	2,348.58	2,191.71	156.87	14.971	
16,400.00	9,110.00	14,172.22	6,889.00	173.01	172.36	18.90	-830.28	7,213.96	2,348.58	2,189.65	158.93	14.778	
16,500.00	9,110.00	14,272.22	6,889.00	175.28	174.65	18.90	-830.34	7,313.96	2,348.59	2,187.60	160.99	14.588	
16,600.00	9,110.00	14,372.22	6,889.00	177.54	176.93	18.90	-830.40	7,413.96	2,348.59	2,185.54	163.05	14.404	
16,700.00	9,110.00	14,472.22	6,889.00	179.82	179.22	18.90	-830.46	7,513.96	2,348.60	2,183.48	165.11	14.224	
16,800.00	9,110.00	14,572.22	6,889.00	182.09	181.51	18.90	-830.52	7,613.96	2,348.60	2,181.42	167.18	14.049	
16,900.00	9,110.00	14,672.22	6,889.00	184.36	183.80	18.90	-830.58	7,713.96	2,348.60	2,179.36	169.24	13.877	
17,000.00	9,110.00	14,772.22	6,889.00	186.63	186.09	18.90	-830.64	7,813.96	2,348.61	2,177.30	171.31	13.710	
17,100.00	9,110.00	14,872.22	6,889.00	188.91	188.37	18.90	-830.70	7,913.96	2,348.61	2,175.24	173.37	13.547	
17,200.00	9,110.00	14,972.22	6,889.00	191.18	190.66	18.90	-830.76	8,013.96	2,348.62	2,173.18	175.44	13.387	
17,300.00	9,110.00	15,072.22	6,889.00	193.46	192.95	18.90	-830.82	8,113.96	2,348.62	2,171.11	177.51	13.231	
17,400.00	9,110.00	15,172.22	6,889.00	195.73	195.24	18.90	-830.88	8,213.96	2,348.62	2,169.05	179.57	13.079	
17,500.00	9,110.00	15,272.22	6,889.00	198.01	197.54	18.90	-830.95	8,313.96	2,348.63	2,166.99	181.64	12.930	
17,600.00	9,110.00	15,372.22	6,889.00	200.29	199.83	18.90	-831.01	8,413.96	2,348.63	2,164.92	183.71	12.784	
17,700.00	9,110.00	15,472.22	6,889.00	202.56	202.12	18.90	-831.07	8,513.96	2,348.64	2,162.85	185.78	12.642	
17,800.00	9,110.00	15,572.22	6,889.00	204.84	204.41	18.90	-831.13	8,613.96	2,348.64	2,160.79	187.86	12.502	
17,900.00	9,110.00	15,672.22	6,889.00	207.12	206.70	18.90	-831.19	8,713.96	2,348.65	2,158.72	189.93	12.366	
18,000.00	9,110.00	15,772.22	6,889.00	209.40	209.00	18.90	-831.25	8,813.96	2,348.65	2,156.65	192.00	12.232	
18,100.00	9,110.00	15,872.22	6,889.00	211.69	211.29	18.90	-831.31	8,913.96	2,348.65	2,154.58	194.08	12.102	
18,200.00	9,110.00	15,972.22	6,889.00	213.97	213.58	18.90	-831.37	9,013.96	2,348.66	2,152.51	196.15	11.974	
18,300.00	9,110.00	16,072.22	6,889.00	216.25	215.88	18.90	-831.43	9,113.96	2,348.66	2,150.44	198.22	11.848	
18,400.00	9,110.00	16,172.22	6,889.00	218.53	218.17	18.90	-831.49	9,213.96	2,348.67	2,148.37	200.30	11.726	
18,500.00	9,110.00	16,272.22	6,889.00	220.82	220.47	18.90	-831.55	9,313.96	2,348.67	2,146.30	202.38	11.605	
18,600.00	9,110.00	16,372.22	6,889.00	223.10	222.76	18.90	-831.61	9,413.96	2,348.68	2,144.22	204.45	11.488	
18,700.00	9,110.00	16,472.22	6,889.00	225.38	225.06	18.90	-831.67	9,513.96	2,348.68	2,142.15	206.53	11.372	
18,800.00	9,110.00	16,572.22	6,889.00	227.67	227.35	18.90	-831.73	9,613.96	2,348.68	2,140.08	208.61	11.259	
18,900.00	9,110.00	16,672.22	6,889.00	229.95	229.65	18.90	-831.79	9,713.96	2,348.69	2,138.00	210.69	11.148	
19,000.00	9,110.00	16,772.22	6,889.00	232.24	231.94	18.90	-831.86	9,813.96	2,348.69	2,135.93	212.77	11.039	
19,100.00	9,110.00	16,872.22	6,889.00	234.53	234.24	18.91	-831.92	9,913.96	2,348.70	2,133.85	214.84	10.932	
19,200.00	9,110.00	16,972.22	6,889.00	236.81	236.54	18.91	-831.98	10,013.96	2,348.70	2,131.78	216.92	10.827	
19,237.58	9,110.00	17,009.80	6,889.00	237.36	237.32	18.91	-832.00	10,051.54	2,348.70	2,131.21	217.49	10.799 SF	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #115H - OH - Prelim B										Offset Site Error: 0.00 usft			
Survey Program: 0-MWD-HDGM										Offset Well Error: 0.00 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)			
0.00	0.00	3.00	3.00	0.00	0.00	-166.74	-590.00	-139.00	606.15				
100.00	100.00	103.00	103.00	0.13	0.14	-166.74	-590.00	-139.00	606.15	605.89	0.27	2,269.710	
200.00	200.00	203.00	203.00	0.49	0.50	-166.74	-590.00	-139.00	606.15	605.17	0.98	616.006	
300.00	300.00	303.00	303.00	0.85	0.86	-166.74	-590.00	-139.00	606.15	604.45	1.70	356.362	
400.00	400.00	403.00	403.00	1.20	1.21	-166.74	-590.00	-139.00	606.15	603.73	2.42	250.695	
500.00	500.00	503.00	503.00	1.56	1.57	-166.74	-590.00	-139.00	606.15	603.02	3.13	193.360	
600.00	600.00	603.00	603.00	1.92	1.93	-166.74	-590.00	-139.00	606.15	602.30	3.85	157.370	
700.00	700.00	703.00	703.00	2.28	2.29	-166.74	-590.00	-139.00	606.15	601.58	4.57	132.674	
800.00	800.00	803.00	803.00	2.64	2.65	-166.74	-590.00	-139.00	606.15	600.87	5.29	114.679	
900.00	900.00	903.00	903.00	3.00	3.01	-166.74	-590.00	-139.00	606.15	600.15	6.00	100.982	
1,000.00	1,000.00	1,003.00	1,003.00	3.35	3.37	-166.74	-590.00	-139.00	606.15	599.43	6.72	90.207	
1,100.00	1,099.98	1,102.98	1,102.98	3.71	3.72	-95.22	-590.00	-139.00	606.31	598.88	7.43	81.594	
1,200.00	1,199.84	1,202.84	1,202.84	4.06	4.08	-95.70	-590.00	-139.00	606.81	598.67	8.14	74.558	
1,300.00	1,299.45	1,302.45	1,302.45	4.41	4.44	-96.50	-590.00	-139.00	607.74	598.89	8.85	68.665	
1,400.00	1,398.88	1,401.88	1,401.88	4.77	4.80	-97.49	-590.00	-139.00	609.04	599.48	9.57	63.660	
1,500.00	1,498.31	1,501.31	1,501.31	5.14	5.15	-98.48	-590.00	-139.00	610.54	600.25	10.29	59.346	
1,600.00	1,597.74	1,600.74	1,600.74	5.50	5.51	-99.46	-590.00	-139.00	612.21	601.20	11.01	55.599	
1,700.00	1,697.16	1,700.16	1,700.16	5.87	5.86	-100.44	-590.00	-139.00	614.07	602.33	11.74	52.318	
1,800.00	1,796.59	1,800.41	1,799.59	6.24	6.22	-101.41	-590.00	-139.00	616.10	603.64	12.47	49.415	
1,900.00	1,896.02	1,900.98	1,899.02	6.62	6.58	-102.38	-590.00	-139.00	618.32	605.12	13.20	46.837	
2,000.00	1,995.45	1,998.45	1,998.45	6.99	6.93	-103.33	-590.00	-139.00	620.71	606.78	13.93	44.574	
2,100.00	2,094.87	2,122.18	2,122.15	7.37	7.38	-104.42	-587.55	-139.87	621.36	606.62	14.74	42.163	
2,200.00	2,194.30	2,246.55	2,246.25	7.75	7.82	-105.32	-580.01	-142.56	618.17	602.64	15.53	39.801	
2,300.00	2,293.73	2,363.04	2,362.09	8.13	8.24	-106.00	-568.52	-146.65	611.28	594.99	16.29	37.516	
2,400.00	2,393.16	2,462.56	2,460.94	8.50	8.60	-106.57	-557.68	-150.51	603.51	586.48	17.03	35.444	
2,500.00	2,492.59	2,562.08	2,559.80	8.88	8.96	-107.14	-546.84	-154.37	595.80	578.04	17.76	33.543	
2,600.00	2,592.01	2,661.60	2,658.65	9.26	9.32	-107.73	-536.01	-158.23	588.15	569.65	18.50	31.795	
2,700.00	2,691.44	2,761.12	2,757.50	9.64	9.68	-108.34	-525.17	-162.09	580.56	561.33	19.24	30.182	
2,800.00	2,790.87	2,860.64	2,856.36	10.03	10.05	-108.96	-514.33	-165.95	573.04	553.07	19.97	28.691	
2,900.00	2,890.30	2,960.16	2,955.21	10.41	10.42	-109.60	-503.50	-169.81	565.59	544.88	20.71	27.308	
3,000.00	2,989.72	3,059.68	3,054.06	10.79	10.79	-110.26	-492.66	-173.67	558.21	536.76	21.45	26.023	
3,100.00	3,089.15	3,159.20	3,152.91	11.17	11.16	-110.93	-481.82	-177.53	550.91	528.72	22.19	24.827	
3,200.00	3,188.58	3,258.72	3,251.77	11.56	11.53	-111.62	-470.99	-181.38	543.68	520.75	22.93	23.711	
3,300.00	3,288.01	3,358.24	3,350.62	11.94	11.90	-112.33	-460.15	-185.24	536.54	512.87	23.67	22.668	
3,400.00	3,387.43	3,457.76	3,449.47	12.32	12.27	-113.06	-449.31	-189.10	529.48	505.07	24.41	21.692	
3,500.00	3,486.86	3,557.28	3,548.33	12.70	12.65	-113.81	-438.48	-192.96	522.51	497.36	25.15	20.776	
3,600.00	3,586.29	3,656.80	3,647.18	13.09	13.02	-114.57	-427.64	-196.82	515.63	489.74	25.89	19.917	
3,700.00	3,685.72	3,756.32	3,746.03	13.47	13.40	-115.36	-416.80	-200.68	508.84	482.21	26.63	19.109	
3,800.00	3,785.15	3,855.84	3,844.89	13.86	13.77	-116.17	-405.97	-204.54	502.15	474.79	27.37	18.349	
3,900.00	3,884.60	3,955.37	3,943.75	14.24	14.15	-116.92	-395.13	-208.40	495.44	467.33	28.10	17.628	
4,000.00	3,984.31	4,054.95	4,042.66	14.61	14.53	-117.31	-384.29	-212.26	487.49	458.66	28.83	16.906	
4,100.00	4,084.23	4,154.48	4,141.52	14.97	14.91	-117.31	-373.45	-216.12	477.97	448.42	29.55	16.173	
4,200.00	4,184.22	4,253.86	4,240.23	15.31	15.28	-117.32	-362.63	-219.97	466.96	436.70	30.26	15.431	
4,300.00	4,284.22	4,353.19	4,338.90	15.65	15.66	-117.59	-351.81	-223.83	455.61	424.65	30.97	14.714	
4,400.00	4,384.22	4,452.52	4,437.56	15.99	16.04	-117.88	-341.00	-227.68	444.28	412.61	31.67	14.028	
4,500.00	4,484.22	4,551.85	4,536.22	16.33	16.42	-117.88	-330.18	-231.53	432.95	400.58	32.38	13.373	
4,600.00	4,584.22	4,651.18	4,634.89	16.67	16.80	-117.88	-319.36	-235.38	421.64	388.56	33.08	12.745	
4,700.00	4,684.22	4,750.51	4,733.55	17.02	17.18	-117.88	-308.55	-239.23	410.34	376.55	33.79	12.144	
4,800.00	4,784.22	4,849.84	4,832.22	17.36	17.55	-117.88	-297.73	-243.09	399.06	364.56	34.50	11.567	
4,900.00	4,884.22	4,949.17	4,930.88	17.70	17.93	-117.88	-286.92	-246.94	387.79	352.59	35.21	11.014	
5,000.00	4,984.22	5,048.50	5,029.54	18.05	18.31	-117.88	-276.10	-250.79	376.55	340.63	35.92	10.483	
5,100.00	5,084.22	5,147.82	5,128.21	18.39	18.69	-117.88	-265.28	-254.64	365.32	328.69	36.63	9.973	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey/Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #115H - OH - Prelim B													Offset Site Error	0.00 usft
Survey Program: 0-MWD-HDGM													Offset Well Error	0.00 usft
Measured Vertical	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)		
5,200.00	5,184.22	5,247.15	5,226.87	18.74	19.07	174.86	-254.47	-258.49	354.11	316.76	37.34	9.483		
5,300.00	5,284.22	5,346.48	5,325.54	19.08	19.46	175.35	-243.65	-262.35	342.92	304.87	38.06	9.011		
5,400.00	5,384.22	5,445.81	5,424.20	19.43	19.84	175.86	-232.84	-266.20	331.76	292.99	38.77	8.557		
5,500.00	5,484.22	5,545.14	5,522.86	19.77	20.22	176.41	-222.02	-270.05	320.63	281.15	39.49	8.120		
5,600.00	5,584.22	5,644.47	5,621.53	20.12	20.60	177.00	-211.20	-273.90	309.53	269.33	40.20	7.699		
5,700.00	5,684.22	5,743.80	5,720.19	20.47	20.98	177.63	-200.39	-277.75	298.47	257.55	40.92	7.294		
5,800.00	5,784.22	5,843.13	5,818.86	20.82	21.36	178.32	-189.57	-281.61	287.44	245.80	41.64	6.903		
5,900.00	5,884.22	5,938.35	5,913.48	21.16	21.72	179.00	-179.53	-285.18	276.82	234.45	42.37	6.533		
6,000.00	5,984.22	6,029.76	6,004.56	21.51	22.07	179.52	-172.29	-287.76	268.86	225.76	43.10	6.239		
6,100.00	6,084.22	6,121.57	6,096.24	21.86	22.40	179.86	-167.77	-289.37	263.93	220.14	43.78	6.028		
6,200.00	6,184.22	6,213.59	6,188.24	22.21	22.72	180.00	-166.02	-289.99	262.02	217.59	44.44	5.897		
6,238.22	6,222.44	6,250.80	6,225.44	22.34	22.85	-180.00	-166.00	-290.00	262.00	217.31	44.69	5.862		
6,300.00	6,284.22	6,312.58	6,287.22	22.56	23.06	-180.00	-166.00	-290.00	262.00	216.87	45.13	5.806		
6,400.00	6,384.22	6,416.66	6,391.09	22.91	23.41	178.93	-165.36	-285.11	261.43	215.59	45.84	5.703		
6,500.00	6,484.22	6,517.66	6,489.54	23.26	23.72	174.11	-162.49	-283.33	259.87	213.41	46.46	5.593		
6,523.80	6,508.02	6,540.35	6,511.02	23.34	23.79	172.50	-161.54	-286.09	259.76	213.17	46.59	5.576 CC, ES, SF		
6,600.00	6,584.22	6,608.58	6,573.64	23.61	23.97	166.57	-158.02	-229.35	261.51	214.63	46.88	5.578		
6,700.00	6,684.22	6,687.05	6,641.10	23.96	24.17	158.05	-152.80	-189.73	272.18	225.48	46.70	5.828		
6,800.00	6,784.22	6,753.12	6,693.23	24.31	24.31	150.02	-147.51	-149.54	296.41	250.90	45.51	6.513		
6,900.00	6,884.22	6,808.13	6,732.84	24.66	24.41	143.23	-142.53	-111.72	335.43	292.00	43.43	7.724		
7,000.00	6,984.22	6,850.00	6,760.43	25.01	24.49	138.21	-138.42	-80.51	387.65	346.90	40.75	9.513		
7,100.00	7,084.22	6,892.01	6,785.73	25.36	24.58	133.46	-134.04	-47.27	450.26	411.74	38.52	11.689		
7,200.00	7,184.22	6,924.06	6,803.34	25.71	24.73	130.07	-130.55	-20.73	520.77	484.36	36.41	14.304		
7,300.00	7,284.22	6,950.00	6,816.48	26.07	24.86	127.50	-127.63	1.45	597.12	562.54	34.58	17.270		
7,400.00	7,384.22	6,974.39	6,827.90	26.42	24.99	125.22	-124.82	22.81	677.83	644.65	33.18	20.429		
7,500.00	7,484.22	7,000.00	6,838.89	26.77	25.14	122.97	-121.80	45.74	761.90	729.68	32.22	23.650		
7,600.00	7,584.22	7,000.00	6,838.89	27.12	25.14	122.97	-121.80	45.74	848.62	817.86	30.76	27.587		
7,700.00	7,684.22	7,026.89	6,849.31	27.48	25.31	120.77	-118.56	70.32	937.00	906.61	30.39	30.835		
7,800.00	7,784.22	7,050.00	6,857.33	27.83	25.45	119.01	-115.73	91.81	1,027.28	997.22	30.07	34.168		
7,900.00	7,884.22	7,050.00	6,857.33	28.18	25.45	119.01	-115.73	91.81	1,118.61	1,089.26	29.35	38.116		
8,000.00	7,984.22	7,050.00	6,857.33	28.53	25.45	119.01	-115.73	91.81	1,211.31	1,182.50	28.81	42.038		
8,100.00	8,084.22	7,072.21	6,864.20	28.89	25.61	117.42	-112.98	112.74	1,304.48	1,275.64	28.83	45.244		
8,200.00	8,184.22	7,080.77	6,866.63	29.24	25.67	116.84	-111.91	120.88	1,398.58	1,369.91	28.67	48.786		
8,300.00	8,284.22	7,100.00	6,871.64	29.59	25.81	115.58	-109.48	139.29	1,493.45	1,464.70	28.75	51.954		
8,400.00	8,384.22	7,100.00	6,871.64	29.95	25.81	115.58	-109.48	139.29	1,588.55	1,559.98	28.58	55.590		
8,500.00	8,484.22	7,100.00	6,871.64	30.30	25.81	115.58	-109.48	139.29	1,684.23	1,655.75	28.48	59.145		
8,600.00	8,584.17	7,100.00	6,871.64	30.65	25.81	104.47	-109.48	139.29	1,779.82	1,751.41	28.41	62.650		
8,700.00	8,682.61	7,100.00	6,871.64	30.96	25.81	7.10	-109.48	139.29	1,870.81	1,842.57	28.24	66.243		
8,800.00	8,776.63	7,129.06	6,878.02	31.24	26.03	4.86	-105.78	167.39	1,953.81	1,925.51	28.30	69.043		
8,900.00	8,863.36	7,150.00	6,881.72	31.52	26.19	3.69	-103.09	187.83	2,028.13	1,999.95	28.18	71.964		
9,000.00	8,940.19	7,150.00	6,881.72	31.81	26.19	3.19	-103.09	187.83	2,091.96	2,064.11	27.85	75.112		
9,100.00	9,004.76	7,175.54	6,885.22	32.12	26.41	2.59	-99.79	212.91	2,144.09	2,116.34	27.75	77.258		
9,200.00	9,055.12	7,200.00	6,887.50	32.51	26.61	2.16	-96.61	237.05	2,183.89	2,156.21	27.68	78.897		
9,300.00	9,089.74	7,200.00	6,887.50	32.98	26.61	2.06	-96.61	237.05	2,210.66	2,183.09	27.57	80.187		
9,400.00	9,107.57	7,241.40	6,889.00	33.55	26.98	1.65	-91.21	278.06	2,223.74	2,195.97	27.77	80.087		
9,500.00	9,110.00	7,286.21	6,889.00	34.22	27.40	1.29	-85.71	322.53	2,224.62	2,196.55	28.07	79.250		
9,600.00	9,110.00	7,381.55	6,889.00	35.02	28.41	0.68	-76.33	417.40	2,224.16	2,195.55	28.62	77.720		
9,700.00	9,110.00	7,479.42	6,889.00	35.95	29.56	0.25	-69.98	515.06	2,224.02	2,194.78	29.24	76.054		
9,800.00	9,110.00	7,578.85	6,889.00	37.00	30.85	0.03	-66.95	614.44	2,224.00	2,194.07	29.93	74.305		
9,843.31	9,110.00	7,622.13	6,889.00	37.50	31.43	0.00	-66.71	657.72	2,224.00	2,193.75	30.25	73.529		
9,900.00	9,110.00	7,678.83	6,889.00	38.15	32.24	0.00	-66.73	714.42	2,224.00	2,193.33	30.67	72.514		
10,000.00	9,110.00	7,778.83	6,889.00	39.40	33.74	0.00	-66.78	814.42	2,224.00	2,192.53	31.47	70.673		

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2:00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck-3029 Fed Com - #115H - OH - Prelim B													Offset Site Error:	0.00 usft
Survey Program: 0-MWD-HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi-Major Axis		Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning	
Measured Vertical	Measured Vertical	Reference	Offset	Reference	Offset		N-S	E-W	Between Centres	Between Ellipses				
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
10,100.00	9,110.00	7,878.83	6,889.00	40.74	35.33	0.00	-66.82	914.42	2,224.00	2,191.68	32.32	68.804		
10,200.00	9,110.00	7,978.83	6,889.00	42.17	36.99	0.00	-66.87	1,014.42	2,224.00	2,190.77	33.23	66.927		
10,300.00	9,110.00	8,078.83	6,889.00	43.67	38.71	0.00	-66.92	1,114.42	2,224.00	2,189.82	34.18	65.059		
10,400.00	9,110.00	8,178.83	6,889.00	45.24	40.50	0.00	-66.96	1,214.42	2,224.00	2,188.82	35.18	63.214		
10,500.00	9,110.00	8,278.83	6,889.00	46.87	42.33	0.00	-67.01	1,314.42	2,224.00	2,187.78	36.22	61.404		
10,600.00	9,110.00	8,378.83	6,889.00	48.55	44.21	0.00	-67.05	1,414.42	2,224.00	2,186.71	37.29	59.636		
10,700.00	9,110.00	8,478.83	6,889.00	50.29	46.13	0.00	-67.10	1,514.42	2,224.00	2,185.60	38.40	57.916		
10,800.00	9,110.00	8,578.83	6,889.00	52.07	48.08	0.00	-67.14	1,614.42	2,224.00	2,184.46	39.54	56.249		
10,900.00	9,110.00	8,678.83	6,889.00	53.89	50.06	0.00	-67.19	1,714.42	2,224.00	2,183.30	40.70	54.637		
11,000.00	9,110.00	8,778.83	6,889.00	55.74	52.07	0.00	-67.24	1,814.42	2,224.00	2,182.10	41.90	53.083		
11,100.00	9,110.00	8,878.83	6,889.00	57.63	54.10	0.00	-67.28	1,914.42	2,224.00	2,180.89	43.11	51.586		
11,200.00	9,110.00	8,978.83	6,889.00	59.55	56.16	0.00	-67.33	2,014.42	2,224.00	2,179.65	44.35	50.147		
11,300.00	9,110.00	9,078.83	6,889.00	61.50	58.23	0.00	-67.37	2,114.42	2,224.00	2,178.39	45.61	48.765		
11,400.00	9,110.00	9,178.83	6,889.00	63.47	60.32	0.00	-67.42	2,214.42	2,224.00	2,177.12	46.88	47.438		
11,500.00	9,110.00	9,278.83	6,889.00	65.46	62.42	0.00	-67.46	2,314.42	2,224.00	2,175.83	48.17	46.165		
11,600.00	9,110.00	9,378.83	6,889.00	67.47	64.54	0.00	-67.51	2,414.42	2,224.00	2,174.52	49.48	44.945		
11,700.00	9,110.00	9,478.83	6,889.00	69.50	66.68	0.00	-67.56	2,514.42	2,224.00	2,173.19	50.81	43.774		
11,800.00	9,110.00	9,578.83	6,889.00	71.55	68.82	0.00	-67.60	2,614.42	2,224.00	2,171.86	52.14	42.653		
11,900.00	9,110.00	9,678.83	6,889.00	73.61	70.97	0.00	-67.65	2,714.42	2,224.00	2,170.51	53.49	41.577		
12,000.00	9,110.00	9,778.83	6,889.00	75.69	73.14	0.00	-67.69	2,814.42	2,224.00	2,169.15	54.85	40.546		
12,100.00	9,110.00	9,878.83	6,889.00	77.78	75.31	0.00	-67.74	2,914.42	2,224.00	2,167.78	56.22	39.558		
12,200.00	9,110.00	9,978.83	6,889.00	79.88	77.49	0.00	-67.78	3,014.42	2,224.00	2,166.40	57.60	38.609		
12,300.00	9,110.00	10,078.83	6,889.00	82.00	79.68	0.00	-67.83	3,114.42	2,224.00	2,165.01	58.99	37.700		
12,400.00	9,110.00	10,178.83	6,889.00	84.12	81.87	0.00	-67.88	3,214.42	2,224.00	2,163.61	60.39	36.826		
12,500.00	9,110.00	10,278.83	6,889.00	86.26	84.07	0.00	-67.92	3,314.42	2,224.00	2,162.20	61.80	35.988		
12,600.00	9,110.00	10,378.83	6,889.00	88.40	86.27	0.00	-67.97	3,414.42	2,224.00	2,160.79	63.21	35.183		
12,700.00	9,110.00	10,478.83	6,889.00	90.55	88.48	0.00	-68.01	3,514.42	2,224.00	2,159.37	64.63	34.409		
12,800.00	9,110.00	10,578.83	6,889.00	92.71	90.70	0.00	-68.06	3,614.42	2,224.00	2,157.94	66.06	33.665		
12,900.00	9,110.00	10,678.83	6,889.00	94.87	92.92	0.00	-68.10	3,714.42	2,224.00	2,156.50	67.50	32.950		
13,000.00	9,110.00	10,778.83	6,889.00	97.04	95.14	0.00	-68.15	3,814.42	2,224.00	2,155.06	68.94	32.262		
13,100.00	9,110.00	10,878.83	6,889.00	99.22	97.37	0.00	-68.20	3,914.42	2,224.00	2,153.62	70.38	31.599		
13,200.00	9,110.00	10,978.83	6,889.00	101.40	99.61	0.00	-68.24	4,014.42	2,224.00	2,152.17	71.83	30.961		
13,300.00	9,110.00	11,078.83	6,889.00	103.59	101.84	0.00	-68.29	4,114.42	2,224.00	2,150.71	73.29	30.346		
13,400.00	9,110.00	11,178.83	6,889.00	105.79	104.08	0.00	-68.33	4,214.42	2,224.00	2,149.25	74.75	29.754		
13,500.00	9,110.00	11,278.83	6,889.00	107.99	106.32	0.00	-68.38	4,314.42	2,224.00	2,147.79	76.21	29.182		
13,600.00	9,110.00	11,378.83	6,889.00	110.19	108.56	0.00	-68.42	4,414.42	2,224.00	2,146.32	77.68	28.630		
13,700.00	9,110.00	11,478.83	6,889.00	112.40	110.81	0.00	-68.47	4,514.42	2,224.00	2,144.85	79.15	28.098		
13,800.00	9,110.00	11,578.83	6,889.00	114.61	113.06	0.00	-68.52	4,614.42	2,224.00	2,143.37	80.63	27.583		
13,900.00	9,110.00	11,678.83	6,889.00	116.83	115.31	0.00	-68.56	4,714.42	2,224.00	2,141.89	82.11	27.087		
14,000.00	9,110.00	11,778.83	6,889.00	119.04	117.57	0.00	-68.61	4,814.42	2,224.00	2,140.41	83.59	26.606		
14,100.00	9,110.00	11,878.83	6,889.00	121.27	119.82	0.00	-68.65	4,914.42	2,224.00	2,138.92	85.08	26.142		
14,200.00	9,110.00	11,978.83	6,889.00	123.49	122.08	0.00	-68.70	5,014.42	2,224.00	2,137.44	86.56	25.692		
14,300.00	9,110.00	12,078.83	6,889.00	125.72	124.34	0.00	-68.74	5,114.42	2,224.00	2,135.94	88.06	25.257		
14,400.00	9,110.00	12,178.83	6,889.00	127.95	126.60	0.00	-68.79	5,214.42	2,224.00	2,134.45	89.55	24.836		
14,500.00	9,110.00	12,278.83	6,889.00	130.19	128.87	0.00	-68.84	5,314.42	2,224.00	2,132.95	91.05	24.427		
14,600.00	9,110.00	12,378.83	6,889.00	132.42	131.13	0.00	-68.88	5,414.42	2,224.00	2,131.46	92.54	24.032		
14,700.00	9,110.00	12,478.83	6,889.00	134.66	133.40	0.00	-68.93	5,514.42	2,224.00	2,129.95	94.05	23.648		
14,800.00	9,110.00	12,578.83	6,889.00	136.90	135.67	0.00	-68.97	5,614.42	2,224.00	2,128.45	95.55	23.276		
14,900.00	9,110.00	12,678.83	6,889.00	139.15	137.93	0.00	-69.02	5,714.42	2,224.00	2,126.95	97.05	22.915		
15,000.00	9,110.00	12,778.83	6,889.00	141.39	140.21	0.00	-69.06	5,814.42	2,224.00	2,125.44	98.56	22.564		
15,100.00	9,110.00	12,878.83	6,889.00	143.64	142.48	0.00	-69.11	5,914.42	2,224.00	2,123.93	100.07	22.224		
15,200.00	9,110.00	12,978.83	6,889.00	145.89	144.75	0.00	-69.16	6,014.42	2,224.00	2,122.42	101.58	21.894		

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #115H - OH - Prelim B													Offset Site Error
Survey Program: 0-MWD-HDGM													Offset Well Error
Reference	Offset	Semi-Major Axis		Distance		Warning							
Measured Vertical	Measured Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor				
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)				
15,300.00	9,110.00	13,078.83	6,889.00	148.14	147.02	0.00	-69.20	6,114.42	2,224.00	2,120.90	103.10	21.572	
15,400.00	9,110.00	13,178.83	6,889.00	150.39	149.30	0.00	-69.25	6,214.42	2,224.00	2,119.39	104.61	21.260	
15,500.00	9,110.00	13,278.83	6,889.00	152.65	151.57	0.00	-69.29	6,314.42	2,224.00	2,117.87	106.13	20.956	
15,600.00	9,110.00	13,378.83	6,889.00	154.91	153.85	0.00	-69.34	6,414.42	2,224.00	2,116.36	107.64	20.661	
15,700.00	9,110.00	13,478.83	6,889.00	157.16	156.13	0.00	-69.38	6,514.42	2,224.00	2,114.84	109.16	20.373	
15,800.00	9,110.00	13,578.83	6,889.00	159.42	158.41	0.00	-69.43	6,614.42	2,224.00	2,113.32	110.68	20.093	
15,900.00	9,110.00	13,678.83	6,889.00	161.68	160.69	0.00	-69.48	6,714.42	2,224.00	2,111.80	112.20	19.821	
16,000.00	9,110.00	13,778.83	6,889.00	163.95	162.97	0.00	-69.52	6,814.42	2,224.00	2,110.27	113.73	19.555	
16,100.00	9,110.00	13,878.83	6,889.00	166.21	165.25	0.00	-69.57	6,914.42	2,224.00	2,108.75	115.25	19.297	
16,200.00	9,110.00	13,978.83	6,889.00	168.47	167.53	0.00	-69.61	7,014.42	2,224.00	2,107.22	116.78	19.045	
16,300.00	9,110.00	14,078.83	6,889.00	170.74	169.82	0.00	-69.66	7,114.42	2,224.00	2,105.70	118.30	18.799	
16,400.00	9,110.00	14,178.83	6,889.00	173.01	172.10	0.00	-69.70	7,214.42	2,224.00	2,104.17	119.83	18.559	
16,500.00	9,110.00	14,278.83	6,889.00	175.28	174.38	0.00	-69.75	7,314.42	2,224.00	2,102.64	121.36	18.325	
16,600.00	9,110.00	14,378.83	6,889.00	177.54	176.67	0.00	-69.79	7,414.42	2,224.00	2,101.11	122.89	18.097	
16,700.00	9,110.00	14,478.83	6,889.00	179.82	178.95	0.00	-69.84	7,514.42	2,224.00	2,099.58	124.42	17.875	
16,800.00	9,110.00	14,578.83	6,889.00	182.09	181.24	0.00	-69.89	7,614.42	2,224.00	2,098.05	125.95	17.657	
16,900.00	9,110.00	14,678.83	6,889.00	184.36	183.53	0.00	-69.93	7,714.42	2,224.00	2,096.51	127.49	17.445	
17,000.00	9,110.00	14,778.83	6,889.00	186.63	185.81	0.00	-69.98	7,814.42	2,224.00	2,094.98	129.02	17.238	
17,100.00	9,110.00	14,878.83	6,889.00	188.91	188.10	0.00	-70.02	7,914.42	2,224.00	2,093.45	130.55	17.035	
17,200.00	9,110.00	14,978.83	6,889.00	191.18	190.39	0.00	-70.07	8,014.42	2,224.00	2,091.91	132.09	16.837	
17,300.00	9,110.00	15,078.83	6,889.00	193.46	192.68	0.00	-70.11	8,114.42	2,224.00	2,090.37	133.63	16.643	
17,400.00	9,110.00	15,178.83	6,889.00	195.73	194.97	0.00	-70.16	8,214.42	2,224.00	2,088.84	135.16	16.454	
17,500.00	9,110.00	15,278.83	6,889.00	198.01	197.26	0.00	-70.21	8,314.42	2,224.00	2,087.30	136.70	16.269	
17,600.00	9,110.00	15,378.83	6,889.00	200.29	199.55	0.00	-70.25	8,414.42	2,224.00	2,085.76	138.24	16.088	
17,700.00	9,110.00	15,478.83	6,889.00	202.56	201.84	0.00	-70.30	8,514.42	2,224.00	2,084.22	139.78	15.911	
17,800.00	9,110.00	15,578.83	6,889.00	204.84	204.13	0.00	-70.34	8,614.42	2,224.00	2,082.68	141.32	15.738	
17,900.00	9,110.00	15,678.83	6,889.00	207.12	206.42	0.00	-70.39	8,714.42	2,224.00	2,081.14	142.86	15.568	
18,000.00	9,110.00	15,778.83	6,889.00	209.40	208.71	0.00	-70.43	8,814.42	2,224.00	2,079.60	144.40	15.402	
18,100.00	9,110.00	15,878.83	6,889.00	211.69	211.00	0.00	-70.48	8,914.42	2,224.00	2,078.06	145.94	15.239	
18,200.00	9,110.00	15,978.83	6,889.00	213.97	213.29	0.00	-70.53	9,014.42	2,224.00	2,076.52	147.48	15.080	
18,300.00	9,110.00	16,078.83	6,889.00	216.25	215.59	0.00	-70.57	9,114.42	2,224.00	2,074.97	149.03	14.924	
18,400.00	9,110.00	16,178.83	6,889.00	218.53	217.88	0.00	-70.62	9,214.42	2,224.00	2,073.43	150.57	14.771	
18,500.00	9,110.00	16,278.83	6,889.00	220.82	220.17	0.00	-70.66	9,314.42	2,224.00	2,071.89	152.11	14.621	
18,600.00	9,110.00	16,378.83	6,889.00	223.10	222.47	0.00	-70.71	9,414.42	2,224.00	2,070.34	153.66	14.474	
18,700.00	9,110.00	16,478.83	6,889.00	225.38	224.76	0.00	-70.75	9,514.42	2,224.00	2,068.80	155.20	14.330	
18,800.00	9,110.00	16,578.83	6,889.00	227.67	227.05	0.00	-70.80	9,614.42	2,224.00	2,067.25	156.75	14.188	
18,824.55	9,110.00	16,603.38	6,889.00	228.23	227.62	0.00	-70.81	9,638.97	2,224.00	2,066.87	157.13	14.154	
18,900.00	9,110.00	16,678.83	6,889.00	229.95	229.35	0.00	-70.85	9,714.42	2,224.00	2,065.71	158.29	14.050	
19,000.00	9,110.00	16,778.83	6,889.00	232.24	231.64	0.00	-70.89	9,814.42	2,224.00	2,064.16	159.84	13.914	
19,100.00	9,110.00	16,878.83	6,889.00	234.53	233.94	0.00	-70.94	9,914.42	2,224.00	2,062.61	161.39	13.781	
19,200.00	9,110.00	16,978.83	6,889.00	236.81	236.23	0.00	-70.98	10,014.42	2,224.00	2,061.07	162.93	13.650	
19,237.58	9,110.00	17,016.41	6,889.00	237.36	237.10	0.00	-71.00	10,052.00	2,224.00	2,060.63	163.37	13.613	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #116H - OH - Prelim B											Offset Site Error: 0.00 usft		
Survey Program: 0-MWD-HDGM											Offset Well Error: 0.00 usft		
Reference		Offset		Semi-Major Axis			Distance		Minimum Separation		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)	Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	2.00	0.00	0.00	-169.53	-590.00	-109.00	599.98				
100.00	100.00	102.00	102.00	0.13	0.14	-169.53	-590.00	-109.00	599.98	599.72	0.26	2,277.179	
200.00	200.00	202.00	202.00	0.49	0.49	-169.53	-590.00	-109.00	599.98	599.00	0.98	611.966	
300.00	300.00	302.00	302.00	0.85	0.85	-169.53	-590.00	-109.00	599.98	598.29	1.70	353.480	
400.00	400.00	402.00	402.00	1.20	1.21	-169.53	-590.00	-109.00	599.98	597.57	2.41	248.512	
500.00	500.00	502.00	502.00	1.56	1.57	-169.53	-590.00	-109.00	599.98	596.85	3.13	191.612	
600.00	600.00	602.00	602.00	1.92	1.93	-169.53	-590.00	-109.00	599.98	596.14	3.85	155.913	
700.00	700.00	702.00	702.00	2.28	2.29	-169.53	-590.00	-109.00	599.98	595.42	4.57	131.427	
800.00	800.00	802.00	802.00	2.64	2.64	-169.53	-590.00	-109.00	599.98	594.70	5.28	113.589	
900.00	900.00	902.00	902.00	3.00	3.00	-169.53	-590.00	-109.00	599.98	593.99	6.00	100.014	
1,000.00	1,000.00	1,002.00	1,002.00	3.35	3.36	-169.53	-590.00	-109.00	599.98	593.27	6.72	89.337 CC	
1,100.00	1,099.98	1,101.98	1,101.98	3.71	3.72	-98.01	-590.00	-109.00	600.22	592.80	7.43	80.814 ES	
1,200.00	1,199.84	1,201.84	1,201.84	4.06	4.08	-98.49	-590.00	-109.00	600.98	592.84	8.14	73.874	
1,300.00	1,299.45	1,301.45	1,301.45	4.41	4.44	-99.28	-590.00	-109.00	602.33	593.48	8.85	68.081	
1,400.00	1,398.88	1,400.88	1,400.88	4.77	4.79	-100.27	-590.00	-109.00	604.15	594.59	9.56	63.171	
1,500.00	1,498.31	1,500.31	1,500.31	5.14	5.15	-101.26	-590.00	-109.00	606.16	595.87	10.28	58.941	
1,600.00	1,597.74	1,582.24	1,582.23	5.50	5.43	-102.07	-591.17	-109.12	609.78	598.85	10.93	55.809	
1,700.00	1,697.16	1,663.99	1,663.90	5.87	5.70	-102.87	-594.67	-109.48	616.41	604.86	11.55	53.359	
1,800.00	1,796.59	1,745.36	1,745.06	6.24	5.96	-103.64	-600.45	-110.07	626.04	613.87	12.17	51.448	
1,900.00	1,896.02	1,826.23	1,825.53	6.62	6.23	-104.38	-608.46	-110.89	638.63	625.86	12.78	49.986	
2,000.00	1,995.45	1,906.48	1,905.12	6.99	6.50	-105.08	-618.64	-111.93	654.14	640.77	13.37	48.911	
2,100.00	2,094.87	1,985.98	1,983.65	7.37	6.77	-105.74	-630.91	-113.18	672.52	658.56	13.96	48.171	
2,200.00	2,194.30	2,064.63	2,060.98	7.75	7.05	-106.34	-645.18	-114.64	693.70	679.16	14.54	47.722	
2,300.00	2,293.73	2,146.07	2,140.62	8.13	7.35	-106.92	-662.11	-116.37	717.57	702.45	15.13	47.440	
2,400.00	2,393.16	2,242.62	2,234.86	8.50	7.71	-107.55	-682.97	-118.50	742.39	726.56	15.83	46.909	
2,500.00	2,492.59	2,339.17	2,329.11	8.88	8.08	-108.15	-703.84	-120.64	767.28	750.75	16.53	46.415	
2,600.00	2,592.01	2,435.72	2,423.35	9.26	8.46	-108.71	-724.70	-122.77	792.25	775.01	17.24	45.955	
2,700.00	2,691.44	2,532.27	2,517.60	9.64	8.85	-109.23	-745.57	-124.90	817.28	799.33	17.95	45.526	
2,800.00	2,790.87	2,628.82	2,611.85	10.03	9.24	-109.72	-766.44	-127.03	842.38	823.71	18.67	45.125	
2,900.00	2,890.30	2,725.38	2,706.09	10.41	9.64	-110.19	-787.30	-129.17	867.53	848.14	19.39	44.749	
3,000.00	2,989.72	2,821.93	2,800.34	10.79	10.05	-110.63	-808.17	-131.30	892.73	872.62	20.11	44.397	
3,100.00	3,089.15	2,918.48	2,894.58	11.17	10.45	-111.04	-829.03	-133.43	917.97	897.14	20.83	44.066	
3,200.00	3,188.58	3,015.03	2,988.83	11.56	10.86	-111.43	-849.90	-135.56	943.26	921.71	21.56	43.755	
3,300.00	3,288.01	3,111.58	3,083.08	11.94	11.28	-111.81	-870.76	-137.70	968.59	946.31	22.29	43.462	
3,400.00	3,387.43	3,208.13	3,177.32	12.32	11.70	-112.16	-891.63	-139.83	993.96	970.94	23.02	43.186	
3,500.00	3,486.86	3,304.69	3,271.57	12.70	12.12	-112.49	-912.50	-141.96	1,019.36	995.61	23.75	42.925	
3,600.00	3,586.29	3,401.24	3,365.81	13.09	12.54	-112.81	-933.36	-144.09	1,044.79	1,020.31	24.48	42.678	
3,700.00	3,685.72	3,502.21	3,460.06	13.47	12.98	-113.12	-954.23	-146.23	1,070.25	1,045.02	25.23	42.416	
3,800.00	3,785.15	3,605.66	3,554.31	13.86	13.44	-113.41	-975.09	-148.36	1,095.73	1,069.74	25.99	42.153	
3,900.00	3,884.60	3,690.94	3,648.59	14.24	13.82	-113.87	-995.97	-150.49	1,121.13	1,094.44	26.69	42.009	
4,000.00	3,984.31	3,787.91	3,743.26	14.61	14.25	-114.44	-1,016.93	-152.64	1,145.41	1,117.99	27.42	41.777	
4,100.00	4,084.23	3,885.25	3,838.27	14.97	14.69	-114.82	-1,037.96	-154.79	1,168.29	1,140.15	28.14	41.522	
4,200.00	4,184.22	3,982.82	3,933.51	15.31	15.13	-115.13	-1,059.05	-156.94	1,189.83	1,160.99	28.84	41.251	
4,300.00	4,284.22	4,080.43	4,028.79	15.65	15.56	-115.44	-1,080.14	-159.10	1,211.08	1,181.53	29.55	40.985	
4,400.00	4,384.22	4,178.05	4,124.07	15.99	16.00	-115.75	-1,101.24	-161.25	1,232.35	1,202.09	30.26	40.730	
4,500.00	4,484.22	4,275.66	4,219.35	16.33	16.45	-116.06	-1,122.33	-163.41	1,253.63	1,222.66	30.97	40.485	
4,600.00	4,584.22	4,373.27	4,314.63	16.67	16.89	-116.37	-1,143.43	-165.57	1,274.92	1,243.25	31.67	40.251	
4,700.00	4,684.22	4,470.88	4,409.91	17.02	17.33	-116.68	-1,164.52	-167.72	1,296.23	1,263.85	32.38	40.026	
4,800.00	4,784.22	4,568.49	4,505.19	17.36	17.78	-116.99	-1,185.62	-169.88	1,317.55	1,284.46	33.10	39.810	
4,900.00	4,884.22	4,666.10	4,600.48	17.70	18.22	-117.30	-1,206.71	-172.03	1,338.89	1,305.08	33.81	39.603	
5,000.00	4,984.22	4,763.72	4,695.76	18.05	18.67	-117.61	-1,227.81	-174.19	1,360.24	1,325.72	34.52	39.403	
5,100.00	5,084.22	4,873.69	4,803.13	18.39	19.17	-117.92	-1,251.46	-176.61	1,381.54	1,346.21	35.32	39.111	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #116H - OH - Prelim.B													Offset Site Error
Survey Program: 0-MWD-HDGM													Offset Well Error
Reference	Offset	Semi-Major Axis		Distance		Minimum Separation		Warning					
Measured Vertical Depth (usft)	Vertical Depth (usft)	Measured Vertical Depth (usft)	Vertical Depth (usft)	Reference	Offset	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	
5,200.00	5,184.22	5,062.07	4,988.53	18.74	19.98	175.44	-1,284.45	-179.98	1,398.87	1,362.26	36.60	38.218	
5,300.00	5,284.22	5,254.12	5,179.37	19.08	20.72	175.60	-1,305.54	-182.13	1,409.74	1,371.99	37.75	37.348	
5,400.00	5,384.22	5,448.17	5,373.20	19.43	21.38	175.66	-1,313.88	-182.99	1,413.99	1,375.26	38.73	36.509	
5,500.00	5,484.22	5,561.19	5,486.22	19.77	21.72	175.66	-1,314.00	-183.00	1,414.05	1,374.63	39.43	35.864	
5,600.00	5,584.22	5,661.19	5,586.22	20.12	22.01	175.66	-1,314.00	-183.00	1,414.05	1,373.95	40.10	35.263	
5,700.00	5,684.22	5,761.19	5,686.22	20.47	22.31	175.66	-1,314.00	-183.00	1,414.05	1,373.28	40.77	34.680	
5,800.00	5,784.22	5,861.19	5,786.22	20.82	22.61	175.66	-1,314.00	-183.00	1,414.05	1,372.61	41.45	34.116	
5,900.00	5,884.22	5,961.19	5,886.22	21.16	22.91	175.66	-1,314.00	-183.00	1,414.05	1,371.93	42.13	33.568	
6,000.00	5,984.22	6,061.19	5,986.22	21.51	23.21	175.66	-1,314.00	-183.00	1,414.05	1,371.25	42.80	33.036	
6,100.00	6,084.22	6,161.19	6,086.22	21.86	23.51	175.66	-1,314.00	-183.00	1,414.05	1,370.57	43.48	32.521	
6,200.00	6,184.22	6,261.19	6,186.22	22.21	23.82	175.66	-1,314.00	-183.00	1,414.05	1,369.89	44.16	32.020	
6,300.00	6,284.22	6,361.19	6,286.22	22.56	24.12	175.66	-1,314.00	-183.00	1,414.05	1,369.21	44.84	31.534	
6,400.00	6,384.22	6,439.96	6,364.93	22.91	24.37	175.58	-1,314.21	-180.92	1,414.58	1,369.10	45.48	31.105	
6,500.00	6,484.22	6,508.33	6,432.54	23.26	24.58	175.18	-1,315.19	-171.09	1,417.21	1,371.14	46.07	30.761	
6,600.00	6,584.22	6,573.48	6,495.45	23.61	24.78	174.51	-1,316.86	-154.33	1,422.26	1,375.63	46.63	30.503	
6,700.00	6,684.22	6,634.11	6,551.91	23.96	24.96	173.65	-1,319.05	-132.45	1,430.11	1,382.98	47.13	30.344	
6,800.00	6,784.22	6,689.46	6,601.18	24.31	25.11	172.66	-1,321.55	-107.38	1,441.19	1,393.63	47.57	30.299	
6,900.00	6,884.22	6,739.31	6,643.28	24.66	25.24	171.62	-1,324.19	-80.86	1,455.92	1,408.01	47.92	30.385	
7,000.00	6,984.22	6,783.78	6,678.76	25.01	25.36	170.59	-1,326.86	-54.20	1,474.67	1,426.50	48.17	30.612	
7,100.00	7,084.22	6,823.25	6,708.43	25.36	25.45	169.60	-1,329.44	-28.31	1,497.69	1,449.37	48.32	30.996	
7,200.00	7,184.22	6,850.00	6,727.49	25.71	25.52	168.89	-1,331.30	-9.64	1,525.20	1,476.91	48.29	31.585	
7,300.00	7,284.22	6,900.00	6,760.68	26.07	25.63	167.49	-1,335.02	27.56	1,557.19	1,508.81	48.38	32.186	
7,400.00	7,384.22	6,916.58	6,770.95	26.42	25.67	167.01	-1,336.31	40.51	1,593.52	1,545.40	48.12	33.113	
7,500.00	7,484.22	6,950.00	6,790.48	26.77	25.75	166.01	-1,339.00	67.49	1,634.34	1,586.39	47.95	34.082	
7,600.00	7,584.22	6,950.00	6,790.48	27.12	25.75	166.01	-1,339.00	67.49	1,679.35	1,631.95	47.41	35.422	
7,700.00	7,684.22	6,982.18	6,807.76	27.48	25.83	165.03	-1,341.70	94.49	1,728.15	1,681.00	47.15	36.652	
7,800.00	7,784.22	7,000.00	6,816.67	27.83	25.87	164.47	-1,343.23	109.85	1,780.81	1,734.09	46.72	38.119	
7,900.00	7,884.22	7,015.41	6,823.98	28.18	25.92	163.99	-1,344.58	123.34	1,838.97	1,790.72	46.25	39.718	
8,000.00	7,984.22	7,029.66	6,830.42	28.53	25.96	163.54	-1,345.84	135.99	1,896.38	1,850.61	45.77	41.437	
8,100.00	8,084.22	7,050.00	6,839.05	28.89	26.02	162.89	-1,347.67	154.32	1,958.83	1,913.49	45.35	43.195	
8,200.00	8,184.22	7,050.00	6,839.05	29.24	26.02	162.89	-1,347.67	154.32	2,023.97	1,979.24	44.73	45.246	
8,300.00	8,284.22	7,050.00	6,839.05	29.59	26.02	162.89	-1,347.67	154.32	2,091.87	2,047.73	44.14	47.395	
8,400.00	8,384.22	7,075.05	6,848.78	29.95	26.11	162.09	-1,349.96	177.29	2,161.69	2,117.86	43.83	49.318	
8,500.00	8,484.22	7,100.00	6,857.45	30.30	26.21	161.29	-1,352.28	200.56	2,234.07	2,190.53	43.54	51.307	
8,600.00	8,584.17	7,100.00	6,857.45	30.65	26.21	54.96	-1,352.28	200.56	2,307.29	2,264.27	43.02	53.634	
8,700.00	8,682.61	7,100.00	6,857.45	30.96	26.21	47.50	-1,352.28	200.56	2,376.46	2,334.01	42.46	55.971	
8,800.00	8,776.63	7,100.00	6,857.45	31.24	26.21	41.83	-1,352.28	200.56	2,439.18	2,397.30	41.89	58.235	
8,900.00	8,863.36	7,150.00	6,871.73	31.52	26.44	37.02	-1,357.04	248.23	2,493.29	2,451.50	41.79	59.662	
9,000.00	8,940.19	7,150.00	6,871.73	31.81	26.44	34.13	-1,357.04	248.23	2,537.66	2,496.41	41.25	61.517	
9,100.00	9,004.76	7,169.58	6,876.18	32.12	26.56	31.99	-1,358.94	267.20	2,571.75	2,530.80	40.96	62.791	
9,200.00	9,055.12	7,200.00	6,881.79	32.51	26.75	30.60	-1,361.91	296.95	2,594.69	2,553.84	40.85	63.525	
9,300.00	9,089.74	7,200.00	6,881.79	32.98	26.75	30.04	-1,361.91	296.95	2,605.71	2,565.08	40.62	64.141	
9,400.00	9,107.57	7,229.20	6,885.67	33.55	26.96	30.00	-1,364.78	325.75	2,604.68	2,563.89	40.80	63.845	
9,500.00	9,110.00	7,250.00	6,887.53	34.22	27.12	30.39	-1,366.84	346.36	2,593.67	2,552.59	41.08	63.140	
9,600.00	9,110.00	7,269.84	6,888.61	35.02	27.28	30.59	-1,368.80	366.07	2,585.88	2,544.34	41.54	62.255	
9,688.17	9,110.00	7,291.01	6,889.00	35.84	27.46	30.64	-1,370.91	387.12	2,583.76	2,541.64	42.11	61.351	
9,700.00	9,110.00	7,291.01	6,889.00	35.95	27.46	30.64	-1,370.91	387.12	2,583.81	2,541.62	42.18	61.252	
9,800.00	9,110.00	7,469.97	6,889.00	37.00	29.32	30.67	-1,383.11	565.64	2,584.50	2,540.61	43.89	58.888	
9,900.00	9,110.00	7,617.66	6,889.00	38.15	31.17	30.67	-1,385.11	713.31	2,584.63	2,539.05	45.58	56.708	
10,000.00	9,110.00	7,717.66	6,889.00	39.40	32.57	30.67	-1,385.19	813.31	2,584.65	2,537.55	47.10	54.880	
10,100.00	9,110.00	7,817.66	6,889.00	40.74	34.07	30.68	-1,385.28	913.31	2,584.67	2,535.95	48.72	53.054	
10,200.00	9,110.00	7,917.66	6,889.00	42.17	35.66	30.68	-1,385.36	1,013.31	2,584.69	2,534.25	50.43	51.252	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #116H - OH - Prelim B													Offset Site Error
Survey Program: 0-MWD-HDGM													Offset Well Error
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis 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	Warning
10,300.00	9,110.00	8,017.66	6,889.00	43.67	37.33	30.68	-1,385.44	1,113.31	2,584.71	2,532.48	52.23	49.488	
10,400.00	9,110.00	8,117.66	6,889.00	45.24	39.06	30.68	-1,385.53	1,213.31	2,584.72	2,530.62	54.10	47.775	
10,500.00	9,110.00	8,217.66	6,889.00	46.87	40.85	30.68	-1,385.61	1,313.31	2,584.74	2,528.70	56.04	46.121	
10,600.00	9,110.00	8,317.66	6,889.00	48.55	42.69	30.68	-1,385.70	1,413.31	2,584.76	2,526.72	58.04	44.531	
10,700.00	9,110.00	8,417.66	6,889.00	50.29	44.58	30.68	-1,385.78	1,513.31	2,584.78	2,524.68	60.10	43.008	
10,800.00	9,110.00	8,517.66	6,889.00	52.07	46.50	30.68	-1,385.87	1,613.31	2,584.80	2,522.59	62.21	41.552	
10,900.00	9,110.00	8,617.66	6,889.00	53.89	48.46	30.68	-1,385.95	1,713.31	2,584.82	2,520.46	64.36	40.163	
11,000.00	9,110.00	8,717.66	6,889.00	55.74	50.45	30.68	-1,386.04	1,813.31	2,584.84	2,518.29	66.55	38.841	
11,100.00	9,110.00	8,817.66	6,889.00	57.63	52.46	30.68	-1,386.12	1,913.31	2,584.86	2,516.08	68.78	37.583	
11,200.00	9,110.00	8,917.66	6,889.00	59.55	54.50	30.68	-1,386.21	2,013.31	2,584.87	2,513.84	71.04	36.387	
11,300.00	9,110.00	9,017.66	6,889.00	61.50	56.55	30.68	-1,386.29	2,113.31	2,584.89	2,511.56	73.33	35.250	
11,400.00	9,110.00	9,117.66	6,889.00	63.47	58.63	30.68	-1,386.37	2,213.31	2,584.91	2,509.26	75.65	34.170	
11,500.00	9,110.00	9,217.66	6,889.00	65.46	60.72	30.69	-1,386.46	2,313.31	2,584.93	2,506.94	77.99	33.143	
11,600.00	9,110.00	9,317.66	6,889.00	67.47	62.83	30.69	-1,386.54	2,413.31	2,584.95	2,504.59	80.36	32.167	
11,700.00	9,110.00	9,417.66	6,889.00	69.50	64.95	30.69	-1,386.63	2,513.30	2,584.97	2,502.22	82.75	31.239	
11,800.00	9,110.00	9,517.66	6,889.00	71.55	67.09	30.69	-1,386.71	2,613.30	2,584.99	2,499.83	85.16	30.356	
11,900.00	9,110.00	9,617.66	6,889.00	73.61	69.23	30.69	-1,386.80	2,713.30	2,585.01	2,497.43	87.58	29.516	
12,000.00	9,110.00	9,717.66	6,889.00	75.69	71.39	30.69	-1,386.88	2,813.30	2,585.03	2,495.00	90.02	28.716	
12,100.00	9,110.00	9,817.66	6,889.00	77.78	73.56	30.69	-1,386.97	2,913.30	2,585.04	2,492.57	92.48	27.953	
12,200.00	9,110.00	9,917.66	6,889.00	79.88	75.73	30.69	-1,387.05	3,013.30	2,585.06	2,490.12	94.95	27.226	
12,300.00	9,110.00	10,017.66	6,889.00	82.00	77.91	30.69	-1,387.13	3,113.30	2,585.08	2,487.65	97.43	26.533	
12,400.00	9,110.00	10,117.66	6,889.00	84.12	80.10	30.69	-1,387.22	3,213.30	2,585.10	2,485.18	99.92	25.871	
12,500.00	9,110.00	10,217.66	6,889.00	86.26	82.29	30.69	-1,387.30	3,313.30	2,585.12	2,482.69	102.43	25.238	
12,600.00	9,110.00	10,317.66	6,889.00	88.40	84.50	30.69	-1,387.39	3,413.30	2,585.14	2,480.19	104.94	24.633	
12,700.00	9,110.00	10,417.66	6,889.00	90.55	86.70	30.69	-1,387.47	3,513.30	2,585.16	2,477.69	107.47	24.055	
12,800.00	9,110.00	10,517.66	6,889.00	92.71	88.91	30.69	-1,387.56	3,613.30	2,585.18	2,475.17	110.00	23.501	
12,900.00	9,110.00	10,617.66	6,889.00	94.87	91.13	30.70	-1,387.64	3,713.30	2,585.19	2,472.65	112.54	22.970	
13,000.00	9,110.00	10,717.66	6,889.00	97.04	93.35	30.70	-1,387.73	3,813.30	2,585.21	2,470.12	115.09	22.462	
13,100.00	9,110.00	10,817.66	6,889.00	99.22	95.58	30.70	-1,387.81	3,913.30	2,585.23	2,467.58	117.65	21.974	
13,200.00	9,110.00	10,917.66	6,889.00	101.40	97.81	30.70	-1,387.90	4,013.30	2,585.25	2,465.04	120.22	21.505	
13,300.00	9,110.00	11,017.66	6,889.00	103.59	100.04	30.70	-1,387.98	4,113.30	2,585.27	2,462.48	122.79	21.055	
13,400.00	9,110.00	11,117.66	6,889.00	105.79	102.28	30.70	-1,388.06	4,213.30	2,585.29	2,459.93	125.36	20.623	
13,500.00	9,110.00	11,217.66	6,889.00	107.99	104.51	30.70	-1,388.15	4,313.30	2,585.31	2,457.36	127.94	20.207	
13,600.00	9,110.00	11,317.66	6,889.00	110.19	106.76	30.70	-1,388.23	4,413.30	2,585.33	2,454.80	130.53	19.806	
13,700.00	9,110.00	11,417.66	6,889.00	112.40	109.00	30.70	-1,388.32	4,513.30	2,585.35	2,452.22	133.12	19.421	
13,800.00	9,110.00	11,517.66	6,889.00	114.61	111.25	30.70	-1,388.40	4,613.30	2,585.36	2,449.65	135.72	19.049	
13,900.00	9,110.00	11,617.66	6,889.00	116.83	113.50	30.70	-1,388.49	4,713.30	2,585.38	2,447.06	138.32	18.691	
14,000.00	9,110.00	11,717.66	6,889.00	119.04	115.75	30.70	-1,388.57	4,813.30	2,585.40	2,444.48	140.93	18.346	
14,100.00	9,110.00	11,817.66	6,889.00	121.27	118.01	30.70	-1,388.66	4,913.30	2,585.42	2,441.89	143.53	18.013	
14,200.00	9,110.00	11,917.66	6,889.00	123.49	120.26	30.70	-1,388.74	5,013.30	2,585.44	2,439.29	146.15	17.691	
14,300.00	9,110.00	12,017.66	6,889.00	125.72	122.52	30.70	-1,388.82	5,113.30	2,585.46	2,436.69	148.76	17.380	
14,400.00	9,110.00	12,117.66	6,889.00	127.95	124.78	30.71	-1,388.91	5,213.30	2,585.48	2,434.09	151.38	17.079	
14,500.00	9,110.00	12,217.66	6,889.00	130.19	127.05	30.71	-1,388.99	5,313.30	2,585.50	2,431.49	154.01	16.788	
14,600.00	9,110.00	12,317.66	6,889.00	132.42	129.31	30.71	-1,389.08	5,413.30	2,585.51	2,428.88	156.63	16.507	
14,700.00	9,110.00	12,417.66	6,889.00	134.66	131.57	30.71	-1,389.16	5,513.30	2,585.53	2,426.27	159.26	16.234	
14,800.00	9,110.00	12,517.66	6,889.00	136.90	133.84	30.71	-1,389.25	5,613.30	2,585.55	2,423.66	161.89	15.971	
14,900.00	9,110.00	12,617.66	6,889.00	139.15	136.11	30.71	-1,389.33	5,713.30	2,585.57	2,421.04	164.53	15.715	
15,000.00	9,110.00	12,717.66	6,889.00	141.39	138.38	30.71	-1,389.42	5,813.30	2,585.59	2,418.42	167.17	15.467	
15,100.00	9,110.00	12,817.66	6,889.00	143.64	140.65	30.71	-1,389.50	5,913.30	2,585.61	2,415.80	169.81	15.227	
15,200.00	9,110.00	12,917.66	6,889.00	145.89	142.92	30.71	-1,389.59	6,013.30	2,585.63	2,413.18	172.45	14.994	
15,300.00	9,110.00	13,017.66	6,889.00	148.14	145.20	30.71	-1,389.67	6,113.30	2,585.65	2,410.55	175.09	14.767	
15,400.00	9,110.00	13,117.66	6,889.00	150.39	147.47	30.71	-1,389.75	6,213.30	2,585.67	2,407.93	177.74	14.548	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com #116H - OH - Prelim B													Offset Site Error
Survey Program: 0-MWD-HDGM													Offset Well Error
Reference	Offset	Semi Major Axis		Reference		Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured Vertical	Measured Vertical	Depth	Depth	Depth	Depth	Toolface	N-S	E-W	Between Centres	Between Ellipses	Separation	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
15,500.00	9,110.00	13,217.66	6,889.00	152.65	149.75	30.71	-1,389.84	6,313.30	2,585.68	2,405.30	180.39	14.334	
15,600.00	9,110.00	13,317.66	6,889.00	154.91	152.02	30.71	-1,389.92	6,413.30	2,585.70	2,402.67	183.04	14.127	
15,700.00	9,110.00	13,417.66	6,889.00	157.16	154.30	30.71	-1,390.01	6,513.30	2,585.72	2,400.03	185.69	13.925	
15,800.00	9,110.00	13,517.66	6,889.00	159.42	156.58	30.72	-1,390.09	6,613.30	2,585.74	2,397.40	188.34	13.729	
15,900.00	9,110.00	13,617.66	6,889.00	161.68	158.86	30.72	-1,390.18	6,713.30	2,585.76	2,394.76	191.00	13.538	
16,000.00	9,110.00	13,717.66	6,889.00	163.95	161.14	30.72	-1,390.26	6,813.30	2,585.78	2,392.12	193.66	13.352	
16,100.00	9,110.00	13,817.66	6,889.00	166.21	163.42	30.72	-1,390.35	6,913.30	2,585.80	2,389.48	196.31	13.172	
16,200.00	9,110.00	13,917.66	6,889.00	168.47	165.70	30.72	-1,390.43	7,013.30	2,585.82	2,386.84	198.97	12.996	
16,300.00	9,110.00	14,017.66	6,889.00	170.74	167.98	30.72	-1,390.51	7,113.30	2,585.83	2,384.20	201.64	12.824	
16,400.00	9,110.00	14,117.66	6,889.00	173.01	170.26	30.72	-1,390.60	7,213.30	2,585.85	2,381.55	204.30	12.657	
16,500.00	9,110.00	14,217.66	6,889.00	175.28	172.55	30.72	-1,390.68	7,313.30	2,585.87	2,378.91	206.96	12.494	
16,600.00	9,110.00	14,317.66	6,889.00	177.54	174.83	30.72	-1,390.77	7,413.30	2,585.89	2,376.26	209.63	12.335	
16,700.00	9,110.00	14,417.66	6,889.00	179.82	177.12	30.72	-1,390.85	7,513.30	2,585.91	2,373.61	212.30	12.181	
16,800.00	9,110.00	14,517.66	6,889.00	182.09	179.40	30.72	-1,390.94	7,613.30	2,585.93	2,370.96	214.97	12.030	
16,900.00	9,110.00	14,617.66	6,889.00	184.36	181.69	30.72	-1,391.02	7,713.30	2,585.95	2,368.31	217.63	11.882	
17,000.00	9,110.00	14,717.66	6,889.00	186.63	183.98	30.72	-1,391.11	7,813.30	2,585.97	2,365.66	220.31	11.738	
17,100.00	9,110.00	14,817.66	6,889.00	188.91	186.26	30.72	-1,391.19	7,913.30	2,585.99	2,363.01	222.98	11.598	
17,200.00	9,110.00	14,917.66	6,889.00	191.18	188.55	30.73	-1,391.27	8,013.30	2,586.00	2,360.35	225.65	11.460	
17,300.00	9,110.00	15,017.66	6,889.00	193.46	190.84	30.73	-1,391.36	8,113.30	2,586.02	2,357.70	228.32	11.326	
17,400.00	9,110.00	15,117.66	6,889.00	195.73	193.13	30.73	-1,391.44	8,213.30	2,586.04	2,355.04	231.00	11.195	
17,500.00	9,110.00	15,217.66	6,889.00	198.01	195.42	30.73	-1,391.53	8,313.30	2,586.06	2,352.39	233.67	11.067	
17,600.00	9,110.00	15,317.66	6,889.00	200.29	197.71	30.73	-1,391.61	8,413.30	2,586.08	2,349.73	236.35	10.942	
17,700.00	9,110.00	15,417.66	6,889.00	202.56	200.00	30.73	-1,391.70	8,513.30	2,586.10	2,347.07	239.03	10.819	
17,800.00	9,110.00	15,517.66	6,889.00	204.84	202.29	30.73	-1,391.78	8,613.30	2,586.12	2,344.41	241.71	10.699	
17,900.00	9,110.00	15,617.66	6,889.00	207.12	204.58	30.73	-1,391.87	8,713.30	2,586.14	2,341.75	244.39	10.582	
18,000.00	9,110.00	15,717.66	6,889.00	209.40	206.87	30.73	-1,391.95	8,813.30	2,586.16	2,339.09	247.07	10.467	
18,100.00	9,110.00	15,817.66	6,889.00	211.69	209.16	30.73	-1,392.04	8,913.30	2,586.17	2,336.43	249.75	10.355	
18,200.00	9,110.00	15,917.66	6,889.00	213.97	211.45	30.73	-1,392.12	9,013.30	2,586.19	2,333.76	252.43	10.245	
18,300.00	9,110.00	16,017.66	6,889.00	216.25	213.75	30.73	-1,392.20	9,113.30	2,586.21	2,331.10	255.11	10.138	
18,400.00	9,110.00	16,117.66	6,889.00	218.53	216.04	30.73	-1,392.29	9,213.30	2,586.23	2,328.44	257.80	10.032	
18,500.00	9,110.00	16,217.66	6,889.00	220.82	218.33	30.73	-1,392.37	9,313.30	2,586.25	2,325.77	260.48	9.929	
18,600.00	9,110.00	16,317.66	6,889.00	223.10	220.63	30.74	-1,392.46	9,413.30	2,586.27	2,323.10	263.16	9.828	
18,700.00	9,110.00	16,417.66	6,889.00	225.38	222.92	30.74	-1,392.54	9,513.30	2,586.29	2,320.44	265.85	9.728	
18,800.00	9,110.00	16,517.66	6,889.00	227.67	225.21	30.74	-1,392.63	9,613.30	2,586.31	2,317.77	268.54	9.631	
18,900.00	9,110.00	16,617.66	6,889.00	229.95	227.51	30.74	-1,392.71	9,713.30	2,586.32	2,315.10	271.22	9.536	
19,000.00	9,110.00	16,717.66	6,889.00	232.24	229.80	30.74	-1,392.80	9,813.30	2,586.34	2,312.43	273.91	9.442	
19,100.00	9,110.00	16,817.66	6,889.00	234.53	232.10	30.74	-1,392.88	9,913.30	2,586.36	2,309.77	276.60	9.351	
19,200.00	9,110.00	16,917.66	6,889.00	236.81	234.39	30.74	-1,392.96	10,013.30	2,586.38	2,307.10	279.29	9.261	
19,237.58	9,110.00	16,955.24	6,889.00	237.36	235.26	30.74	-1,393.00	10,050.88	2,586.39	2,306.29	280.10	9.234 SF	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #125H - OH - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD-HDGM												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	2.00	0.00	0.00	-171.15	-700.00	-109.00	708.44				
100.00	100.00	102.00	102.00	0.13	0.14	-171.15	-700.00	-109.00	708.44	708.17	0.26	2,688.796	
200.00	200.00	202.00	202.00	0.49	0.49	-171.15	-700.00	-109.00	708.44	707.46	0.98	722.584	
300.00	300.00	302.00	302.00	0.85	0.85	-171.15	-700.00	-109.00	708.44	706.74	1.70	417.374	
400.00	400.00	402.00	402.00	1.20	1.21	-171.15	-700.00	-109.00	708.44	706.02	2.41	293.432	
500.00	500.00	502.00	502.00	1.56	1.57	-171.15	-700.00	-109.00	708.44	705.30	3.13	226.247	
600.00	600.00	602.00	602.00	1.92	1.93	-171.15	-700.00	-109.00	708.44	704.59	3.85	184.096	
700.00	700.00	702.00	702.00	2.28	2.29	-171.15	-700.00	-109.00	708.44	703.87	4.57	155.184	
800.00	800.00	802.00	802.00	2.64	2.64	-171.15	-700.00	-109.00	708.44	703.15	5.28	134.121	
900.00	900.00	902.00	902.00	3.00	3.00	-171.15	-700.00	-109.00	708.44	702.44	6.00	118.092	
1,000.00	1,000.00	1,002.00	1,002.00	3.35	3.36	-171.15	-700.00	-109.00	708.44	701.72	6.72	105.485	
1,100.00	1,099.98	1,101.98	1,101.98	3.71	3.72	-99.60	-700.00	-109.00	708.72	701.30	7.43	95.422	
1,200.00	1,199.84	1,201.84	1,201.84	4.06	4.08	-100.00	-700.00	-109.00	709.62	701.48	8.14	87.228	
1,300.00	1,299.45	1,301.45	1,301.45	4.41	4.44	-100.66	-700.00	-109.00	711.19	702.34	8.85	80.384	
1,400.00	1,398.88	1,400.88	1,400.88	4.77	4.79	-101.49	-700.00	-109.00	713.25	703.68	9.56	74.579	
1,500.00	1,498.31	1,500.31	1,500.31	5.14	5.15	-102.32	-700.00	-109.00	715.46	705.18	10.28	69.571	
1,600.00	1,597.74	1,600.26	1,599.74	5.50	5.51	-103.15	-700.00	-109.00	717.83	706.82	11.01	65.203	
1,700.00	1,697.16	1,700.84	1,699.16	5.87	5.87	-103.98	-700.00	-109.00	720.35	708.61	11.74	61.364	
1,800.00	1,796.59	1,801.41	1,798.59	6.24	6.23	-104.79	-700.00	-109.00	723.02	710.55	12.47	57.978	
1,900.00	1,896.02	1,901.98	1,898.02	6.62	6.59	-105.60	-700.00	-109.00	725.84	712.63	13.20	54.972	
2,000.00	1,895.45	1,997.45	1,997.45	6.99	6.93	-106.41	-700.00	-109.00	728.80	714.88	13.92	52.357	
2,100.00	2,094.87	2,128.12	2,128.08	7.37	7.40	-107.39	-697.25	-109.79	729.83	715.08	14.76	49.462	
2,200.00	2,194.30	2,259.80	2,259.44	7.75	7.87	-108.25	-688.68	-112.23	726.60	711.03	15.57	46.665	
2,300.00	2,293.73	2,391.11	2,389.90	8.13	8.34	-108.98	-674.37	-116.32	719.06	702.71	16.36	43.959	
2,400.00	2,393.16	2,505.38	2,492.37	8.50	8.75	-109.51	-660.27	-120.34	708.85	691.72	17.13	41.374	
2,500.00	2,492.59	2,593.90	2,590.63	8.88	9.08	-110.04	-646.70	-124.22	698.66	680.83	17.83	39.191	
2,600.00	2,592.01	2,706.83	2,688.90	9.26	9.49	-110.58	-633.13	-128.09	688.52	669.91	18.61	36.996	
2,700.00	2,691.44	2,807.56	2,787.16	9.64	9.86	-111.13	-619.56	-131.97	678.45	659.10	19.35	35.059	
2,800.00	2,790.87	2,908.28	2,885.42	10.03	10.24	-111.70	-605.98	-135.84	668.45	648.35	20.09	33.267	
2,900.00	2,890.30	3,009.01	2,983.69	10.41	10.62	-112.29	-592.41	-139.71	658.51	637.67	20.84	31.604	
3,000.00	2,889.72	3,109.74	3,081.95	10.79	11.00	-112.90	-578.84	-143.59	648.64	627.06	21.58	30.058	
3,100.00	3,089.15	3,189.53	3,180.22	11.17	11.30	-113.52	-565.27	-147.46	638.85	616.60	22.25	28.715	
3,200.00	3,188.58	3,288.81	3,278.48	11.56	11.68	-114.17	-551.70	-151.34	629.13	606.15	22.99	27.369	
3,300.00	3,288.01	3,388.08	3,376.75	11.94	12.06	-114.83	-538.13	-155.21	619.50	595.78	23.73	26.110	
3,400.00	3,387.43	3,487.35	3,475.01	12.32	12.44	-115.51	-524.56	-159.09	609.95	585.49	24.47	24.931	
3,500.00	3,486.86	3,586.62	3,573.27	12.70	12.83	-116.22	-510.99	-162.96	600.50	575.29	25.21	23.824	
3,600.00	3,586.29	3,685.90	3,671.54	13.09	13.21	-116.95	-497.42	-166.84	591.13	565.19	25.95	22.784	
3,700.00	3,685.72	3,785.17	3,769.80	13.47	13.59	-117.70	-483.85	-170.71	581.87	555.18	26.68	21.805	
3,800.00	3,785.15	3,884.44	3,868.07	13.86	13.98	-118.48	-470.27	-174.58	572.70	545.28	27.42	20.883	
3,900.00	3,884.60	3,983.72	3,966.34	14.24	14.36	-119.19	-456.70	-178.46	563.51	535.35	28.16	20.009	
4,000.00	3,984.31	4,083.02	4,064.63	14.61	14.75	-119.55	-443.13	-182.33	552.99	524.10	28.89	19.139	
4,100.00	4,084.23	4,182.24	4,162.84	14.97	15.14	-119.57	-429.56	-186.21	540.80	511.18	29.61	18.262	
4,200.00	4,184.22	4,281.28	4,260.88	15.31	15.53	-168.96	-416.02	-190.07	527.00	496.68	30.32	17.381	
4,300.00	4,284.22	4,380.27	4,358.86	15.65	15.91	-169.09	-402.49	-193.93	512.83	481.81	31.02	16.530	
4,400.00	4,384.22	4,479.25	4,456.83	15.99	16.30	-169.24	-388.96	-197.80	498.67	466.95	31.73	15.717	
4,500.00	4,484.22	4,578.23	4,554.81	16.33	16.69	-169.39	-375.43	-201.66	484.51	452.08	32.43	14.939	
4,600.00	4,584.22	4,677.22	4,652.79	16.67	17.08	-169.55	-361.90	-205.52	470.36	437.22	33.14	14.193	
4,700.00	4,684.22	4,776.20	4,750.77	17.02	17.47	-169.72	-348.37	-209.39	456.21	422.36	33.85	13.479	
4,800.00	4,784.22	4,875.19	4,848.75	17.36	17.86	-169.90	-334.84	-213.25	442.06	407.51	34.55	12.793	
4,900.00	4,884.22	4,974.17	4,946.73	17.70	18.25	-170.09	-321.30	-217.11	427.92	392.66	35.26	12.135	
5,000.00	4,984.22	5,073.16	5,044.71	18.05	18.64	-170.30	-307.77	-220.98	413.78	377.81	35.97	11.502	
5,100.00	5,084.22	5,172.14	5,142.69	18.39	19.03	-170.52	-294.24	-224.84	399.65	362.97	36.68	10.894	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #125H - OH - Plan 1													Offset Site Error:
Survey Program: 0-MWD-HDGM													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)	Semi-Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,200.00	5,184.22	5,271.12	5,240.67	18.74	19.43	170.76	-280.71	-228.70	385.53	348.13	37.40	10.309	
5,300.00	5,284.22	5,370.11	5,338.64	19.08	19.82	171.01	-267.18	-232.57	371.41	333.30	38.11	9.746	
5,400.00	5,384.22	5,469.09	5,436.62	19.43	20.21	171.29	-253.65	-236.43	357.30	318.48	38.82	9.204	
5,500.00	5,484.22	5,568.08	5,534.60	19.77	20.60	171.59	-240.11	-240.29	343.20	303.66	39.53	8.681	
5,600.00	5,584.22	5,667.06	5,632.58	20.12	21.00	171.91	-226.58	-244.16	329.11	288.86	40.25	8.177	
5,700.00	5,684.22	5,766.05	5,730.56	20.47	21.39	172.26	-213.05	-248.02	315.03	274.06	40.96	7.690	
5,800.00	5,784.22	5,865.03	5,828.54	20.82	21.78	172.65	-199.52	-251.88	300.96	259.28	41.68	7.221	
5,900.00	5,884.22	5,964.01	5,926.52	21.16	22.18	173.07	-185.99	-255.74	286.90	244.51	42.40	6.767	
6,000.00	5,984.22	6,063.00	6,024.50	21.51	22.57	173.54	-172.46	-259.61	272.87	229.75	43.12	6.329	
6,100.00	6,084.22	6,161.98	6,122.48	21.86	22.96	174.06	-158.92	-263.47	258.85	215.02	43.83	5.905	
6,200.00	6,184.22	6,260.97	6,220.45	22.21	23.36	174.64	-145.39	-267.33	244.86	200.30	44.56	5.496	
6,300.00	6,284.22	6,359.95	6,318.43	22.56	23.75	175.28	-131.86	-271.20	230.89	185.62	45.28	5.100	
6,400.00	6,384.22	6,458.94	6,416.41	22.91	24.15	176.01	-118.33	-275.06	216.96	170.96	46.00	4.716	
6,500.00	6,484.22	6,557.92	6,514.39	23.26	24.54	176.84	-104.80	-278.92	203.07	156.34	46.73	4.346	
6,600.00	6,584.22	6,655.71	6,611.19	23.61	24.93	177.78	-91.49	-282.72	189.28	141.81	47.47	3.988	
6,700.00	6,684.22	6,749.19	6,704.00	23.96	25.29	178.64	-80.74	-285.79	177.69	129.44	48.25	3.683	
6,800.00	6,784.22	6,843.30	6,797.75	24.31	25.64	179.33	-72.87	-288.04	169.28	120.29	48.99	3.456	
6,900.00	6,884.22	6,937.86	6,892.17	24.66	25.99	179.81	-67.95	-289.44	164.06	114.38	49.68	3.302	
7,000.00	6,984.22	7,032.65	6,986.93	25.01	26.31	180.00	-66.03	-289.99	162.03	111.70	50.33	3.220	
7,038.66	7,022.88	7,070.60	7,024.88	25.15	26.44	180.00	-66.00	-290.00	162.00	111.41	50.59	3.202	
7,100.00	7,084.22	7,131.94	7,086.22	25.36	26.65	180.00	-66.00	-290.00	162.00	110.98	51.02	3.175	
7,200.00	7,184.22	7,231.94	7,186.22	25.71	26.98	180.00	-66.00	-290.00	162.00	110.28	51.72	3.132	
7,201.46	7,185.69	7,233.40	7,187.69	25.72	26.99	180.00	-66.00	-290.00	162.00	110.27	51.73	3.132 CC	
7,300.00	7,284.22	7,331.70	7,285.87	26.07	27.31	178.86	-66.00	-286.78	162.03	109.65	52.38	3.093 ES, SF	
7,400.00	7,384.22	7,427.87	7,380.20	26.42	27.59	172.49	-66.01	-268.64	163.52	110.67	52.85	3.094	
7,500.00	7,484.22	7,515.81	7,462.71	26.77	27.83	162.35	-66.02	-238.45	171.64	118.86	52.78	3.252	
7,600.00	7,584.22	7,593.03	7,530.61	27.12	28.01	151.44	-66.04	-201.81	192.68	141.12	51.57	3.737	
7,700.00	7,684.22	7,659.09	7,584.35	27.48	28.14	142.02	-66.06	-163.46	229.46	180.27	49.20	4.664	
7,800.00	7,784.22	7,714.85	7,626.03	27.83	28.23	134.74	-66.08	-126.45	280.50	234.13	46.36	6.050	
7,900.00	7,884.22	7,761.70	7,658.13	28.18	28.30	129.36	-66.10	-92.35	342.59	298.92	43.67	7.845	
8,000.00	7,984.22	7,800.00	7,682.23	28.53	28.35	125.48	-66.11	-62.59	412.80	371.53	41.27	10.003	
8,100.00	8,084.22	7,834.47	7,702.18	28.89	28.38	122.40	-66.12	-34.49	488.94	449.50	39.44	12.397	
8,200.00	8,184.22	7,862.85	7,717.31	29.24	28.41	120.12	-66.14	-10.48	569.47	531.56	37.91	15.023	
8,300.00	8,284.22	7,887.19	7,729.33	29.59	28.43	118.34	-66.15	10.69	653.32	616.64	36.68	17.812	
8,400.00	8,384.22	7,900.00	7,735.29	29.95	28.44	117.46	-66.15	22.02	739.84	704.46	35.38	20.913	
8,500.00	8,484.22	7,926.54	7,746.83	30.30	28.47	115.77	-66.16	45.92	828.16	793.22	34.94	23.701	
8,600.00	8,584.17	7,950.00	7,756.09	30.65	28.55	105.56	-66.17	67.47	917.40	882.88	34.52	26.573	
8,700.00	8,682.61	7,950.00	7,756.09	30.96	28.55	8.09	-66.17	67.47	1,001.08	967.83	33.25	30.112	
8,800.00	8,776.63	7,985.28	7,768.35	31.24	28.74	5.82	-66.19	100.55	1,076.38	1,043.57	32.81	32.806	
8,900.00	8,863.36	8,000.00	7,772.85	31.52	28.83	4.73	-66.20	114.56	1,142.94	1,111.13	31.82	35.923	
9,000.00	8,940.19	8,050.00	7,785.45	31.81	29.15	3.52	-66.22	162.94	1,199.52	1,168.00	31.52	38.054	
9,100.00	9,004.76	8,050.00	7,785.45	32.12	29.15	3.22	-66.22	162.94	1,245.32	1,214.89	30.42	40.933	
9,200.00	9,055.12	8,100.00	7,793.77	32.51	29.51	2.49	-66.24	212.22	1,279.70	1,249.48	30.22	42.347	
9,300.00	9,089.74	8,121.79	7,796.05	32.98	29.67	2.18	-66.25	233.89	1,302.55	1,272.69	29.87	43.613	
9,400.00	9,107.57	8,156.95	7,798.04	33.55	29.95	1.81	-66.27	268.99	1,313.57	1,283.68	29.89	43.950	
9,500.00	9,110.00	8,254.80	7,801.80	34.22	30.82	1.01	-66.32	366.77	1,311.58	1,281.22	30.36	43.204	
9,600.00	9,110.00	8,353.44	7,805.58	35.02	31.81	0.44	-66.37	465.34	1,307.49	1,276.58	30.91	42.305	
9,700.00	9,110.00	8,452.78	7,809.39	35.95	32.95	0.09	-66.41	564.60	1,303.58	1,272.06	31.52	41.354	
9,800.00	9,110.00	8,552.54	7,813.22	37.00	34.20	-0.03	-66.46	664.29	1,299.73	1,267.55	32.19	40.378	
9,900.00	9,110.00	8,652.46	7,817.05	38.15	35.55	0.00	-66.51	764.14	1,295.90	1,263.00	32.90	39.394	
10,000.00	9,110.00	8,752.39	7,820.89	39.40	37.00	0.00	-66.56	863.99	1,292.06	1,258.40	33.66	38.389	
10,100.00	9,110.00	8,852.32	7,824.72	40.74	38.53	0.00	-66.61	963.84	1,288.22	1,253.75	34.47	37.369	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #125H - OH - Plan 1													Offset Site Error
Survey Program: 0-MWD-HDGM													Offset Well Error
Reference	Offset	Semi-Major Axis		Distance		Minimum Separation		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	
10,200.00	9,110.00	8,952.24	7,828.56	42.17	40.14	0.00	-66.65	1,063.70	1,284.39	1,249.05	35.34	36.345	
10,300.00	9,110.00	9,052.17	7,832.39	43.67	41.81	0.00	-66.70	1,163.55	1,280.55	1,244.30	36.25	35.324	
10,400.00	9,110.00	9,152.09	7,836.22	45.24	43.54	0.00	-66.75	1,263.40	1,276.71	1,239.51	37.21	34.314	
10,500.00	9,110.00	9,252.02	7,840.06	46.87	45.32	0.00	-66.80	1,363.25	1,272.88	1,234.67	38.20	33.318	
10,600.00	9,110.00	9,351.95	7,843.89	48.55	47.14	0.00	-66.85	1,463.11	1,269.04	1,229.80	39.24	32.343	
10,700.00	9,110.00	9,451.87	7,847.72	50.29	49.01	0.00	-66.90	1,562.96	1,265.21	1,224.90	40.30	31.391	
10,800.00	9,110.00	9,551.80	7,851.56	52.07	50.91	0.00	-66.94	1,662.81	1,261.37	1,219.97	41.40	30.465	
10,900.00	9,110.00	9,651.73	7,855.39	53.89	52.84	0.00	-66.99	1,762.67	1,257.53	1,215.00	42.53	29.567	
11,000.00	9,110.00	9,751.65	7,859.23	55.74	54.80	0.00	-67.04	1,862.52	1,253.70	1,210.01	43.69	28.698	
11,100.00	9,110.00	9,851.58	7,863.06	57.63	56.79	0.00	-67.08	1,962.37	1,250.47	1,205.70	44.77	27.930	
11,200.00	9,110.00	9,951.51	7,866.90	59.55	58.80	0.00	-67.13	2,062.22	1,248.21	1,202.23	45.97	27.150	
11,300.00	9,110.00	10,051.44	7,870.73	61.50	60.83	0.00	-67.18	2,162.07	1,245.94	1,198.75	47.20	26.398	
11,400.00	9,110.00	10,151.37	7,874.56	63.47	62.88	0.00	-67.22	2,261.92	1,243.68	1,195.24	48.44	25.674	
11,500.00	9,110.00	10,251.30	7,878.39	65.46	64.94	0.00	-67.27	2,361.77	1,241.42	1,191.72	49.70	24.976	
11,600.00	9,110.00	10,351.23	7,882.22	67.47	66.99	0.00	-67.32	2,461.62	1,239.16	1,188.18	50.98	24.306	
11,700.00	9,110.00	10,451.16	7,886.05	69.50	69.01	0.00	-67.37	2,561.47	1,236.90	1,184.62	52.28	23.661	
11,800.00	9,110.00	10,551.09	7,889.88	71.55	71.02	0.00	-67.42	2,661.32	1,234.64	1,181.05	53.59	23.040	
11,900.00	9,110.00	10,650.99	7,893.71	73.61	73.07	0.00	-67.47	2,761.17	1,232.38	1,177.47	54.91	22.444	
12,000.00	9,110.00	10,750.92	7,897.54	75.69	75.07	0.00	-67.51	2,861.02	1,230.11	1,173.87	56.24	21.871	
12,100.00	9,110.00	10,850.85	7,901.37	77.78	77.21	0.00	-67.56	2,960.87	1,227.85	1,170.26	57.59	21.321	
12,200.00	9,110.00	10,950.78	7,905.20	79.88	79.36	0.00	-67.61	3,060.72	1,225.59	1,166.64	58.95	20.791	
12,300.00	9,110.00	11,050.71	7,909.03	82.00	81.52	0.00	-67.66	3,160.57	1,223.33	1,163.01	60.32	20.282	
12,400.00	9,110.00	11,150.64	7,912.86	84.12	83.69	0.00	-67.71	3,260.42	1,221.07	1,159.37	61.69	19.793	
12,500.00	9,110.00	11,250.57	7,916.69	86.26	85.86	0.00	-67.76	3,360.27	1,218.81	1,155.73	63.08	19.322	
12,600.00	9,110.00	11,350.50	7,920.52	88.40	88.05	0.00	-67.80	3,460.12	1,216.54	1,152.07	64.47	18.869	
12,700.00	9,110.00	11,450.43	7,924.35	90.55	90.23	0.00	-67.85	3,560.00	1,214.28	1,148.41	65.88	18.433	
12,800.00	9,110.00	11,550.36	7,928.18	92.71	92.43	0.00	-67.90	3,660.00	1,212.02	1,144.73	67.29	18.013	
12,900.00	9,110.00	11,650.29	7,932.01	94.87	94.62	0.00	-67.95	3,760.00	1,209.76	1,141.06	68.70	17.608	
13,000.00	9,110.00	11,750.22	7,935.84	97.04	96.83	0.00	-68.00	3,860.00	1,207.50	1,137.37	70.13	17.219	
13,100.00	9,110.00	11,850.15	7,939.67	99.22	99.04	0.00	-68.05	3,960.00	1,205.24	1,133.68	71.56	16.843	
13,200.00	9,110.00	11,950.08	7,943.50	101.40	101.25	0.00	-68.09	4,060.00	1,202.97	1,129.98	72.99	16.481	
13,300.00	9,110.00	12,050.01	7,947.33	103.59	103.47	0.00	-68.14	4,160.00	1,200.71	1,126.28	74.43	16.132	
13,400.00	9,110.00	12,150.00	7,951.16	105.79	105.69	0.00	-68.19	4,260.00	1,198.45	1,122.57	75.88	15.795	
13,500.00	9,110.00	12,250.00	7,955.00	107.99	107.91	0.00	-68.24	4,360.00	1,196.19	1,118.86	77.33	15.469	
13,600.00	9,110.00	12,350.00	7,958.83	110.19	110.14	0.00	-68.29	4,460.00	1,193.93	1,115.15	78.78	15.155	
13,700.00	9,110.00	12,450.00	7,962.66	112.40	112.37	0.00	-68.34	4,560.00	1,191.67	1,111.43	80.24	14.851	
13,800.00	9,110.00	12,550.00	7,966.50	114.61	114.61	0.00	-68.38	4,660.00	1,189.40	1,107.70	81.70	14.558	
13,900.00	9,110.00	12,650.00	7,970.33	116.83	116.84	0.00	-68.43	4,760.00	1,187.14	1,103.97	83.17	14.274	
14,000.00	9,110.00	12,750.00	7,974.16	119.04	119.08	0.00	-68.48	4,860.00	1,184.88	1,100.24	84.64	13.999	
14,100.00	9,110.00	12,850.00	7,977.99	121.27	121.33	0.00	-68.53	4,960.00	1,182.62	1,096.50	86.12	13.733	
14,200.00	9,110.00	12,950.00	7,981.82	123.49	123.57	0.00	-68.58	5,060.00	1,180.36	1,092.77	87.59	13.476	
14,300.00	9,110.00	13,050.00	7,985.65	125.72	125.82	0.00	-68.63	5,160.00	1,178.10	1,089.02	89.07	13.226	
14,400.00	9,110.00	13,150.00	7,989.48	127.95	128.07	0.00	-68.67	5,260.00	1,175.84	1,085.28	90.56	12.984	
14,500.00	9,110.00	13,250.00	7,993.31	130.19	130.32	0.00	-68.72	5,360.00	1,173.57	1,081.53	92.04	12.750	
14,600.00	9,110.00	13,350.00	7,997.14	132.42	132.57	0.00	-68.77	5,460.00	1,171.31	1,077.78	93.53	12.523	
14,700.00	9,110.00	13,450.00	7,999.97	134.66	134.83	0.00	-68.82	5,560.00	1,169.05	1,074.03	95.02	12.303	
14,800.00	9,110.00	13,550.00	8,003.80	136.90	137.08	0.00	-68.87	5,660.00	1,166.79	1,070.27	96.52	12.089	
14,900.00	9,110.00	13,650.00	8,007.63	139.15	139.34	0.00	-68.92	5,760.00	1,164.53	1,066.51	98.01	11.881	
15,000.00	9,110.00	13,750.00	8,011.46	141.39	141.60	0.00	-68.96	5,860.00	1,162.27	1,062.75	99.51	11.680	
15,100.00	9,110.00	13,850.00	8,015.29	143.64	143.86	0.00	-69.01	5,960.00	1,160.00	1,058.99	101.01	11.484	
15,200.00	9,110.00	13,950.00	8,019.12	145.89	146.13	0.00	-69.06	6,060.00	1,157.74	1,055.23	102.52	11.293	
15,300.00	9,110.00	14,050.00	8,022.95	148.14	148.39	0.00	-69.11	6,160.00	1,155.48	1,051.46	104.02	11.108	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #125H - OH - Plan 1													Offset Site Error
Survey Program: 0-MWD-HDGM													Offset Well Error
Reference Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference Depth (usft)	Offset Depth (usft)	Semi-Major Axis Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	9,110.00	14,130.78	7,959.08	150.39	150.66	0.00	-69.16	6,240.50	1,153.22	1,047.69	105.53	10.928	
15,500.00	9,110.00	14,230.75	7,961.34	152.65	152.92	0.00	-69.21	6,340.45	1,150.96	1,043.92	107.04	10.753	
15,600.00	9,110.00	14,330.73	7,963.60	154.91	155.19	0.00	-69.25	6,440.40	1,148.70	1,040.15	108.55	10.583	
15,700.00	9,110.00	14,430.70	7,965.86	157.16	157.46	0.00	-69.30	6,540.35	1,146.43	1,036.38	110.06	10.417	
15,800.00	9,110.00	14,530.68	7,968.12	159.42	159.73	0.00	-69.35	6,640.30	1,144.17	1,032.60	111.57	10.255	
15,900.00	9,110.00	14,630.65	7,970.38	161.68	162.00	0.00	-69.40	6,740.24	1,141.91	1,028.82	113.09	10.098	
16,000.00	9,110.00	14,730.63	7,972.64	163.95	164.28	0.00	-69.45	6,840.19	1,139.65	1,025.05	114.60	9.944	
16,100.00	9,110.00	14,828.70	7,974.78	166.21	166.51	0.00	-69.49	6,938.24	1,137.46	1,021.35	116.11	9.796	
16,200.00	9,110.00	14,928.67	7,976.88	168.47	168.78	0.00	-69.54	7,038.20	1,135.37	1,017.74	117.63	9.652	
16,300.00	9,110.00	15,028.65	7,978.97	170.74	171.06	0.00	-69.59	7,138.15	1,133.28	1,014.12	119.15	9.511	
16,400.00	9,110.00	15,128.63	7,981.07	173.01	173.33	0.00	-69.64	7,238.11	1,131.18	1,010.51	120.68	9.374	
16,500.00	9,110.00	15,228.61	7,983.16	175.28	175.61	0.00	-69.69	7,338.06	1,129.09	1,006.89	122.20	9.240	
16,600.00	9,110.00	15,328.59	7,985.25	177.54	177.89	0.00	-69.74	7,438.02	1,126.99	1,003.27	123.72	9.109	
16,700.00	9,110.00	15,428.56	7,987.35	179.82	180.17	0.00	-69.78	7,537.98	1,124.90	999.65	125.25	8.981	
16,800.00	9,110.00	15,528.54	7,989.44	182.09	182.45	0.00	-69.83	7,637.93	1,122.81	996.03	126.77	8.857	
16,900.00	9,110.00	15,628.52	7,991.53	184.36	184.73	0.00	-69.88	7,737.89	1,120.71	992.41	128.30	8.735	
17,000.00	9,110.00	15,728.50	7,993.63	186.63	187.01	0.00	-69.93	7,837.84	1,118.62	988.79	129.83	8.616	
17,100.00	9,110.00	15,828.48	7,995.72	188.91	189.29	0.00	-69.98	7,937.80	1,116.52	985.16	131.36	8.500	
17,200.00	9,110.00	15,928.45	7,997.82	191.18	191.57	0.00	-70.03	8,037.76	1,114.43	981.54	132.89	8.386	
17,300.00	9,110.00	16,028.43	7,999.91	193.46	193.85	0.00	-70.07	8,137.71	1,112.33	977.92	134.42	8.275	
17,400.00	9,110.00	16,128.41	8,002.00	195.73	196.14	0.00	-70.12	8,237.67	1,110.24	974.29	135.95	8.166	
17,500.00	9,110.00	16,228.39	8,004.10	198.01	198.42	0.00	-70.17	8,337.62	1,108.15	970.66	137.48	8.060	
17,600.00	9,110.00	16,328.37	8,006.19	200.29	200.70	0.00	-70.22	8,437.58	1,106.05	967.03	139.02	7.956	
17,700.00	9,110.00	16,428.34	8,008.28	202.56	202.99	0.00	-70.27	8,537.54	1,103.96	963.41	140.55	7.854	
17,800.00	9,110.00	16,528.32	8,010.38	204.84	205.28	0.00	-70.32	8,637.49	1,101.86	959.78	142.09	7.755	
17,900.00	9,110.00	16,628.30	8,012.47	207.12	207.56	0.00	-70.36	8,737.45	1,099.77	956.15	143.62	7.657	
18,000.00	9,110.00	16,728.28	8,014.56	209.40	209.85	0.00	-70.41	8,837.41	1,097.68	952.52	145.16	7.562	
18,100.00	9,110.00	16,828.26	8,016.66	211.69	212.13	0.00	-70.46	8,937.36	1,095.58	948.89	146.70	7.468	
18,200.00	9,110.00	16,928.23	8,018.75	213.97	214.42	0.00	-70.51	9,037.32	1,093.49	945.25	148.23	7.377	
18,300.00	9,110.00	17,028.21	8,020.85	216.25	216.71	0.00	-70.56	9,137.27	1,091.39	941.62	149.77	7.287	
18,400.00	9,110.00	17,128.19	8,022.94	218.53	219.00	0.00	-70.61	9,237.23	1,089.30	937.99	151.31	7.199	
18,500.00	9,110.00	17,228.17	8,025.03	220.82	221.29	0.00	-70.65	9,337.19	1,087.21	934.35	152.85	7.113	
18,600.00	9,110.00	17,328.15	8,027.13	223.10	223.58	0.00	-70.70	9,437.14	1,085.11	930.72	154.39	7.028	
18,700.00	9,110.00	17,428.13	8,029.22	225.38	225.87	0.00	-70.75	9,537.10	1,083.02	927.08	155.93	6.945	
18,800.00	9,110.00	17,528.10	8,031.31	227.67	228.16	0.00	-70.80	9,637.05	1,080.92	923.45	157.47	6.864	
18,900.00	9,110.00	17,628.08	8,033.41	229.95	230.45	0.00	-70.85	9,737.01	1,078.83	919.81	159.02	6.784	
19,000.00	9,110.00	17,728.06	8,035.50	232.24	232.74	0.00	-70.90	9,836.97	1,076.73	916.18	160.56	6.706	
19,100.00	9,110.00	17,828.04	8,037.60	234.53	235.03	0.00	-70.94	9,936.92	1,074.64	912.54	162.10	6.629	
19,200.00	9,110.00	17,928.02	8,039.69	236.81	237.32	0.00	-70.99	10,036.88	1,072.55	908.90	163.65	6.554	
19,237.58	9,110.00	17,943.14	8,040.01	237.36	237.67	0.00	-71.00	10,052.00	1,071.99	907.99	164.01	6.536	
19,237.58	9,110.00	17,943.14	8,040.01	237.36	237.67	0.00	-71.00	10,052.00	1,071.99	907.99	164.01	6.536	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com (Slot 1)
Site Error: 0.00 usft
Reference Well: #135H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #135H
TVD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
MD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #126H - OH - Plan 1												Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM												Offset Well Error: 0.00 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Tooface (ft)	Offset Wellbore Centre N/S (usft)	E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Warning
0.00	0.00	2.00	2.00	0.00	0.00	-168.77	-700.00	-139.00	713.67			
100.00	100.00	102.00	102.00	0.13	0.14	-168.77	-700.00	-139.00	713.67	713.40	0.26	2,708.652
200.00	200.00	202.00	202.00	0.49	0.49	-168.77	-700.00	-139.00	713.67	712.69	0.98	727.920
300.00	300.00	302.00	302.00	0.85	0.85	-168.77	-700.00	-139.00	713.67	711.97	1.70	420.456
400.00	400.00	402.00	402.00	1.20	1.21	-168.77	-700.00	-139.00	713.67	711.25	2.41	295.599
500.00	500.00	502.00	502.00	1.56	1.57	-168.77	-700.00	-139.00	713.67	710.54	3.13	227.918
600.00	600.00	602.00	602.00	1.92	1.93	-168.77	-700.00	-139.00	713.67	709.82	3.85	185.455
700.00	700.00	702.00	702.00	2.28	2.29	-168.77	-700.00	-139.00	713.67	709.10	4.57	156.330
800.00	800.00	802.00	802.00	2.64	2.64	-168.77	-700.00	-139.00	713.67	708.39	5.28	135.111
900.00	900.00	902.00	902.00	3.00	3.00	-168.77	-700.00	-139.00	713.67	707.67	6.00	118.964
1,000.00	1,000.00	1,002.00	1,002.00	3.35	3.36	-168.77	-700.00	-139.00	713.67	706.95	6.72	106.264 CC, ES
1,100.00	1,099.98	1,081.63	1,081.62	3.71	3.63	-97.16	-701.13	-139.27	715.34	708.00	7.34	97.478
1,200.00	1,199.84	1,161.41	1,161.33	4.06	3.90	-97.38	-704.42	-140.06	720.24	712.30	7.95	90.635
1,300.00	1,299.45	1,240.71	1,240.43	4.41	4.16	-97.74	-709.83	-141.36	728.42	719.87	8.55	85.176
1,400.00	1,398.88	1,319.45	1,318.79	4.77	4.43	-98.34	-717.30	-143.15	739.71	730.55	9.16	80.789
1,500.00	1,498.31	1,408.81	1,407.49	5.14	4.73	-99.01	-727.83	-145.67	753.43	743.62	9.81	76.810
1,600.00	1,597.74	1,507.36	1,505.28	5.50	5.08	-99.72	-739.68	-148.51	767.54	757.03	10.51	73.037
1,700.00	1,697.16	1,605.91	1,603.08	5.87	5.43	-100.41	-751.53	-151.36	781.77	770.55	11.22	69.704
1,800.00	1,796.59	1,704.47	1,700.88	6.24	5.79	-101.07	-763.39	-154.20	796.11	784.18	11.93	66.751
1,900.00	1,896.02	1,803.02	1,798.67	6.62	6.16	-101.71	-775.24	-157.04	810.54	797.90	12.64	64.116
2,000.00	1,995.45	1,901.57	1,896.47	6.99	6.52	-102.32	-787.09	-159.88	825.07	811.71	13.36	61.754
2,100.00	2,094.87	2,000.13	1,994.27	7.37	6.89	-102.92	-798.94	-162.72	839.69	825.61	14.08	59.628
2,200.00	2,194.30	2,101.32	2,092.06	7.75	7.28	-103.49	-810.79	-165.56	854.40	839.59	14.82	57.668
2,300.00	2,293.73	2,202.77	2,189.86	8.13	7.66	-104.04	-822.64	-168.41	869.19	853.64	15.55	55.887
2,400.00	2,393.16	2,304.21	2,287.66	8.50	8.05	-104.58	-834.49	-171.25	884.06	867.77	16.29	54.265
2,500.00	2,492.59	2,405.66	2,385.45	8.88	8.44	-105.10	-846.35	-174.09	899.00	881.97	17.03	52.783
2,600.00	2,592.01	2,507.11	2,483.25	9.26	8.83	-105.60	-858.20	-176.93	914.01	896.24	17.77	51.425
2,700.00	2,691.44	2,591.45	2,561.05	9.64	9.16	-106.09	-870.05	-179.77	929.09	910.63	18.46	50.343
2,800.00	2,790.87	2,690.00	2,678.84	10.03	9.54	-106.56	-881.90	-182.61	944.23	925.04	19.19	49.207
2,900.00	2,890.30	2,788.55	2,776.64	10.41	9.92	-107.01	-893.75	-185.45	959.43	939.51	19.92	48.155
3,000.00	2,989.72	2,887.11	2,874.44	10.79	10.30	-107.45	-905.60	-188.30	974.69	954.03	20.66	47.179
3,100.00	3,089.15	2,985.66	2,972.24	11.17	10.69	-107.88	-917.45	-191.14	990.00	968.61	21.40	46.271
3,200.00	3,188.58	3,084.21	3,070.03	11.56	11.07	-108.29	-929.30	-193.98	1,005.37	983.24	22.13	45.424
3,300.00	3,288.01	3,182.77	3,167.83	11.94	11.46	-108.70	-941.16	-196.82	1,020.78	997.91	22.87	44.632
3,400.00	3,387.43	3,281.32	3,265.63	12.32	11.85	-109.09	-953.01	-199.66	1,036.25	1,012.64	23.61	43.890
3,500.00	3,486.86	3,379.87	3,363.42	12.70	12.23	-109.46	-964.86	-202.50	1,051.76	1,027.41	24.35	43.195
3,600.00	3,586.29	3,478.43	3,461.22	13.09	12.62	-109.83	-976.71	-205.35	1,067.31	1,042.22	25.09	42.541
3,700.00	3,685.72	3,576.98	3,559.02	13.47	13.01	-110.19	-988.56	-208.19	1,082.91	1,057.08	25.83	41.926
3,800.00	3,785.15	3,675.53	3,656.81	13.86	13.40	-110.54	-1,000.41	-211.03	1,098.54	1,071.97	26.57	41.345
3,900.00	3,884.60	3,774.12	3,754.64	14.24	13.78	-110.98	-1,012.27	-213.87	1,114.12	1,086.81	27.31	40.795
4,000.00	3,984.31	3,872.99	3,852.75	14.61	14.17	-111.43	-1,024.16	-216.72	1,128.69	1,100.65	28.04	40.251
4,100.00	4,084.23	3,972.09	3,951.09	14.97	14.56	-111.69	-1,036.07	-219.58	1,142.00	1,113.24	28.76	39.707
4,200.00	4,184.22	4,071.31	4,049.55	15.31	14.96	176.62	-1,048.00	-222.44	1,154.12	1,124.65	29.47	39.167
4,300.00	4,284.22	4,170.54	4,148.02	15.65	15.35	176.80	-1,059.94	-225.30	1,165.97	1,135.80	30.17	38.646
4,400.00	4,384.22	4,269.77	4,246.49	15.99	15.74	176.97	-1,071.87	-228.16	1,177.82	1,146.95	30.87	38.149
4,500.00	4,484.22	4,369.01	4,344.96	16.33	16.13	177.14	-1,083.80	-231.02	1,189.69	1,158.11	31.58	37.673
4,600.00	4,584.22	4,468.24	4,443.43	16.67	16.53	177.30	-1,095.74	-233.88	1,201.57	1,169.29	32.28	37.218
4,700.00	4,684.22	4,567.47	4,541.91	17.02	16.92	177.47	-1,107.67	-236.75	1,213.46	1,180.47	32.99	36.781
4,800.00	4,784.22	4,666.70	4,640.38	17.36	17.31	177.63	-1,119.60	-239.61	1,225.36	1,191.66	33.70	36.363
4,900.00	4,884.22	4,765.94	4,738.85	17.70	17.71	177.78	-1,131.54	-242.47	1,237.26	1,202.86	34.41	35.961
5,000.00	4,984.22	4,865.17	4,837.32	18.05	18.10	177.94	-1,143.47	-245.33	1,249.18	1,214.07	35.11	35.575
5,100.00	5,084.22	4,964.40	4,935.79	18.39	18.49	178.09	-1,155.40	-248.19	1,261.10	1,225.28	35.82	35.204

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #126H - OH - Plan 1													Offset Site Error
Survey Program: 0-MWD-HDGM													Offset Well Error
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)	Semi-Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,184.22	5,063.63	5,034.26	18.74	18.89	178.23	-1,167.33	-251.05	1,273.04	1,236.50	36.53	34.847	
5,300.00	5,284.22	5,162.87	5,132.73	19.08	19.28	178.38	-1,179.27	-253.91	1,284.98	1,247.74	37.24	34.503	
5,400.00	5,384.22	5,262.10	5,231.20	19.43	19.67	178.52	-1,191.20	-256.77	1,296.93	1,258.97	37.95	34.172	
5,500.00	5,484.22	5,361.33	5,329.67	19.77	20.07	178.66	-1,203.13	-259.63	1,308.88	1,270.22	38.66	33.853	
5,600.00	5,584.22	5,460.56	5,428.14	20.12	20.46	178.80	-1,215.07	-262.50	1,320.85	1,281.47	39.37	33.546	
5,700.00	5,684.22	5,559.80	5,526.61	20.47	20.86	178.93	-1,227.00	-265.36	1,332.82	1,292.73	40.09	33.249	
5,800.00	5,784.22	5,659.03	5,625.08	20.82	21.25	179.07	-1,238.93	-268.22	1,344.80	1,304.00	40.80	32.962	
5,900.00	5,884.22	5,758.26	5,723.56	21.16	21.65	179.20	-1,250.86	-271.08	1,356.78	1,315.27	41.51	32.685	
6,000.00	5,984.22	5,857.49	5,822.03	21.51	22.04	179.32	-1,262.80	-273.94	1,368.78	1,326.55	42.22	32.418	
6,100.00	6,084.22	5,956.73	5,920.50	21.86	22.44	179.45	-1,274.73	-276.80	1,380.78	1,337.84	42.94	32.159	
6,200.00	6,184.22	6,055.96	6,018.97	22.21	22.83	179.57	-1,286.66	-279.66	1,392.78	1,349.13	43.65	31.908	
6,300.00	6,284.22	6,155.19	6,117.44	22.56	23.22	179.69	-1,298.60	-282.52	1,404.79	1,360.43	44.36	31.666	
6,400.00	6,384.22	6,254.42	6,215.91	22.91	23.62	179.81	-1,310.53	-285.38	1,416.81	1,371.73	45.08	31.431	
6,500.00	6,484.22	6,353.65	6,314.38	23.26	24.01	179.93	-1,322.46	-288.25	1,428.83	1,383.04	45.79	31.203	
6,600.00	6,584.22	6,452.89	6,412.85	23.61	24.41	179.96	-1,334.40	-291.11	1,440.86	1,394.36	46.51	30.983	
6,700.00	6,684.22	6,552.12	6,511.32	23.96	24.80	179.84	-1,346.33	-293.97	1,452.90	1,405.68	47.22	30.769	
6,800.00	6,784.22	6,651.35	6,609.79	24.31	25.20	179.73	-1,358.26	-296.83	1,464.94	1,417.01	47.94	30.561	
6,900.00	6,884.22	6,750.58	6,708.60	24.66	25.53	179.58	-1,370.19	-300.87	1,477.03	1,428.65	48.66	30.329	
7,000.00	6,984.22	7,015.00	6,972.25	25.01	26.55	179.50	-1,383.87	-302.97	1,479.99	1,429.95	50.04	29.574	
7,100.00	7,084.22	7,128.97	7,086.22	25.36	26.90	179.50	-1,384.00	-303.00	1,480.06	1,429.31	50.75	29.163	
7,200.00	7,184.22	7,228.97	7,186.22	25.71	27.20	179.50	-1,384.00	-303.00	1,480.06	1,428.63	51.43	28.780	
7,300.00	7,284.22	7,329.68	7,286.91	26.07	27.51	179.54	-1,384.00	-301.78	1,480.05	1,427.94	52.10	28.405	
7,378.64	7,362.87	7,408.40	7,364.87	26.34	27.75	179.95	-1,384.01	-291.29	1,480.01	1,427.38	52.63	28.119	
7,400.00	7,384.22	7,429.16	7,385.12	26.42	27.81	179.87	-1,384.01	-286.74	1,480.02	1,427.24	52.77	28.044	
7,500.00	7,484.22	7,520.95	7,472.19	26.77	28.06	178.76	-1,384.04	-258.00	1,480.45	1,427.04	53.41	27.716	
7,600.00	7,584.22	7,601.89	7,544.30	27.12	28.25	177.35	-1,384.07	-221.40	1,482.25	1,428.24	54.02	27.441	
7,700.00	7,684.22	7,671.16	7,601.41	27.48	28.40	175.84	-1,384.10	-182.27	1,486.44	1,431.88	54.56	27.244	
7,800.00	7,784.22	7,729.50	7,645.56	27.83	28.50	174.37	-1,384.14	-144.17	1,493.94	1,438.92	55.02	27.151	
7,900.00	7,884.22	7,778.35	7,679.39	28.18	28.57	173.03	-1,384.17	-108.94	1,505.48	1,450.10	55.38	27.184	
8,000.00	7,984.22	7,819.30	7,705.35	28.53	28.63	171.82	-1,384.20	-77.28	1,521.55	1,465.94	55.61	27.362	
8,100.00	8,084.22	7,850.00	7,723.29	28.89	28.67	170.88	-1,384.22	-52.38	1,542.48	1,486.80	55.67	27.707	
8,200.00	8,184.22	7,883.04	7,741.08	29.24	28.70	169.83	-1,384.24	-24.55	1,568.36	1,512.71	55.65	28.184	
8,300.00	8,284.22	7,900.00	7,749.58	29.59	28.72	169.28	-1,384.25	-9.87	1,599.25	1,543.85	55.40	28.867	
8,400.00	8,384.22	7,929.55	7,763.34	29.95	28.75	168.31	-1,384.28	16.28	1,634.93	1,579.77	55.17	29.635	
8,500.00	8,484.22	7,950.00	7,772.06	30.30	28.77	167.63	-1,384.29	34.77	1,675.34	1,620.56	54.78	30.585	
8,600.00	8,584.17	7,965.26	7,778.14	30.65	28.79	162.91	-1,384.31	48.77	1,719.44	1,665.17	54.28	31.679	
8,700.00	8,682.61	7,985.13	7,785.49	30.96	28.81	158.28	-1,384.32	67.23	1,761.51	1,707.79	53.72	32.788	
8,800.00	8,776.63	8,000.00	7,790.57	31.24	28.84	154.50	-1,384.33	81.20	1,799.30	1,746.22	53.08	33.898	
8,900.00	8,863.36	8,032.95	7,800.53	31.52	28.90	151.06	-1,384.36	112.61	1,831.45	1,778.86	52.60	34.820	
9,000.00	8,940.19	8,050.00	7,804.97	31.81	28.95	148.71	-1,384.38	129.07	1,857.17	1,805.16	52.01	35.709	
9,100.00	9,004.76	8,100.00	7,815.13	32.12	29.18	146.59	-1,384.42	178.01	1,875.50	1,823.71	51.79	36.212	
9,200.00	9,055.12	8,116.65	7,817.56	32.51	29.28	145.66	-1,384.43	194.48	1,885.71	1,834.25	51.46	36.647	
9,300.00	9,089.74	8,150.00	7,820.99	32.98	29.51	145.20	-1,384.46	227.65	1,887.73	1,836.28	51.45	36.692	
9,400.00	9,107.57	8,180.34	7,822.46	33.55	29.73	145.46	-1,384.49	257.95	1,881.23	1,829.57	51.66	36.413	
9,500.00	9,110.00	8,278.21	7,825.54	34.22	30.58	145.75	-1,384.57	355.77	1,866.05	1,813.46	52.58	35.487	
9,600.00	9,110.00	8,376.88	7,828.64	35.02	31.58	145.76	-1,384.66	454.39	1,852.43	1,798.67	53.76	34.457	
9,700.00	9,110.00	8,476.25	7,831.77	35.95	32.71	145.81	-1,384.74	553.71	1,842.57	1,787.38	55.19	33.388	
9,800.00	9,110.00	8,576.04	7,834.90	37.00	33.97	145.89	-1,384.83	653.45	1,836.46	1,779.61	56.85	32.302	
9,900.00	9,110.00	8,675.98	7,838.05	38.15	35.33	145.98	-1,384.92	753.34	1,833.73	1,774.99	58.74	31.217	
10,000.00	9,110.00	8,775.93	7,841.19	39.40	36.79	146.05	-1,385.00	853.25	1,831.57	1,770.78	60.79	30.130	
10,100.00	9,110.00	8,875.88	7,844.33	40.74	38.33	146.12	-1,385.09	953.15	1,829.42	1,766.45	62.97	29.052	
10,200.00	9,110.00	8,975.83	7,847.47	42.17	39.94	146.20	-1,385.18	1,053.05	1,827.27	1,762.00	65.27	27.994	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com (Slot 1)
Site Error: 0.00 usft
Reference Well: #135H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #135H
TVD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
MD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #126H - OH - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD-HDGM													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)	Semi Major Axis (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	Warning
10,300.00	9,110.00	9,075.78	7,850.61	43.67	41.82	46.27	-1,385.27	1,152.95	1,825.12	1,757.44	67.69	26.964	
10,400.00	9,110.00	9,175.73	7,853.76	45.24	43.36	46.34	-1,385.35	1,252.85	1,822.98	1,752.78	70.20	25.968	
10,500.00	9,110.00	9,275.68	7,856.90	46.87	45.14	46.41	-1,385.44	1,352.75	1,820.84	1,748.03	72.80	25.011	
10,600.00	9,110.00	9,364.65	7,859.09	48.55	46.77	46.46	-1,385.52	1,441.69	1,819.15	1,743.79	75.36	24.140	
10,700.00	9,110.00	9,464.62	7,861.36	50.29	48.64	46.52	-1,385.60	1,541.64	1,817.61	1,739.52	78.10	23.274	
10,800.00	9,110.00	9,564.60	7,863.63	52.07	50.55	46.57	-1,385.69	1,641.59	1,816.08	1,735.18	80.90	22.447	
10,900.00	9,110.00	9,664.57	7,865.89	53.89	52.48	46.62	-1,385.78	1,741.54	1,814.55	1,730.78	83.77	21.661	
11,000.00	9,110.00	9,764.55	7,868.16	55.74	54.45	46.67	-1,385.86	1,841.48	1,813.02	1,726.33	86.70	20.913	
11,100.00	9,110.00	9,864.52	7,870.43	57.63	56.44	46.73	-1,385.95	1,941.43	1,811.50	1,721.83	89.67	20.202	
11,200.00	9,110.00	9,964.49	7,872.70	59.55	58.45	46.78	-1,386.04	2,041.38	1,809.97	1,717.28	92.69	19.527	
11,300.00	9,110.00	10,064.47	7,874.96	61.50	60.49	46.83	-1,386.12	2,141.33	1,808.45	1,712.70	95.75	18.887	
11,400.00	9,110.00	10,164.44	7,877.23	63.47	62.54	46.89	-1,386.21	2,241.28	1,806.93	1,708.07	98.85	18.279	
11,500.00	9,110.00	10,264.42	7,879.50	65.46	64.61	46.94	-1,386.30	2,341.23	1,805.41	1,703.41	101.99	17.701	
11,600.00	9,110.00	10,364.39	7,881.76	67.47	66.70	46.99	-1,386.38	2,441.18	1,803.89	1,698.72	105.16	17.153	
11,700.00	9,110.00	10,464.37	7,884.03	69.50	68.80	47.05	-1,386.47	2,541.12	1,802.37	1,694.00	108.37	16.632	
11,800.00	9,110.00	10,564.34	7,886.30	71.55	70.91	47.10	-1,386.56	2,641.07	1,800.85	1,689.26	111.60	16.137	
11,900.00	9,110.00	10,664.31	7,888.56	73.61	73.04	47.16	-1,386.64	2,741.02	1,799.34	1,684.49	114.86	15.666	
12,000.00	9,110.00	10,764.29	7,890.83	75.69	75.18	47.21	-1,386.73	2,840.97	1,797.83	1,679.69	118.14	15.218	
12,100.00	9,110.00	10,864.26	7,893.10	77.78	77.32	47.26	-1,386.82	2,940.92	1,796.32	1,674.87	121.45	14.791	
12,200.00	9,110.00	10,964.24	7,895.36	79.88	79.48	47.32	-1,386.91	3,040.87	1,794.81	1,670.03	124.77	14.384	
12,300.00	9,110.00	11,064.21	7,897.63	82.00	81.64	47.37	-1,386.99	3,140.82	1,793.30	1,665.18	128.12	13.997	
12,400.00	9,110.00	11,164.19	7,899.90	84.12	83.81	47.43	-1,387.08	3,240.76	1,791.79	1,660.30	131.49	13.627	
12,500.00	9,110.00	11,264.16	7,902.16	86.26	85.99	47.48	-1,387.17	3,340.71	1,790.29	1,655.41	134.88	13.273	
12,600.00	9,110.00	11,364.13	7,904.43	88.40	88.17	47.53	-1,387.25	3,440.66	1,788.79	1,650.50	138.29	12.935	
12,700.00	9,110.00	11,464.11	7,906.70	90.55	90.36	47.59	-1,387.34	3,540.61	1,787.29	1,645.58	141.71	12.612	
12,800.00	9,110.00	11,564.08	7,908.97	92.71	92.56	47.64	-1,387.43	3,640.56	1,785.79	1,640.64	145.15	12.303	
12,900.00	9,110.00	11,664.06	7,911.23	94.87	94.76	47.70	-1,387.51	3,740.51	1,784.29	1,635.69	148.60	12.007	
13,000.00	9,110.00	11,764.03	7,913.50	97.04	96.97	47.75	-1,387.60	3,840.46	1,782.79	1,630.72	152.07	11.724	
13,100.00	9,110.00	11,864.01	7,915.77	99.22	99.18	47.81	-1,387.69	3,940.40	1,781.30	1,625.75	155.55	11.452	
13,200.00	9,110.00	11,963.98	7,918.03	101.40	101.40	47.86	-1,387.77	4,040.35	1,779.80	1,620.76	159.04	11.191	
13,300.00	9,110.00	12,063.95	7,920.30	103.59	103.62	47.92	-1,387.86	4,140.30	1,778.31	1,615.76	162.55	10.940	
13,400.00	9,110.00	12,163.93	7,922.57	105.79	105.84	47.97	-1,387.95	4,240.25	1,776.82	1,610.75	166.07	10.699	
13,500.00	9,110.00	12,263.90	7,924.83	107.99	108.07	48.03	-1,388.03	4,340.20	1,775.33	1,605.73	169.61	10.467	
13,600.00	9,110.00	12,363.88	7,927.10	110.19	110.30	48.08	-1,388.12	4,440.15	1,773.85	1,600.70	173.15	10.245	
13,700.00	9,110.00	12,463.85	7,929.37	112.40	112.53	48.14	-1,388.21	4,540.09	1,772.36	1,595.66	176.70	10.030	
13,800.00	9,110.00	12,563.83	7,931.63	114.61	114.77	48.19	-1,388.30	4,640.04	1,770.88	1,590.61	180.27	9.823	
13,900.00	9,110.00	12,663.80	7,933.90	116.83	117.01	48.25	-1,388.38	4,739.99	1,769.40	1,585.55	183.85	9.624	
14,000.00	9,110.00	12,763.77	7,936.17	119.04	119.25	48.30	-1,388.47	4,839.94	1,767.92	1,580.48	187.43	9.432	
14,100.00	9,110.00	12,863.75	7,938.44	121.27	121.49	48.36	-1,388.56	4,939.89	1,766.44	1,575.41	191.03	9.247	
14,200.00	9,110.00	12,963.72	7,940.70	123.49	123.74	48.42	-1,388.64	5,039.84	1,764.96	1,570.32	194.64	9.068	
14,300.00	9,110.00	13,063.70	7,942.97	125.72	125.99	48.47	-1,388.73	5,139.79	1,763.49	1,565.23	198.25	8.895	
14,400.00	9,110.00	13,163.67	7,945.24	127.95	128.24	48.53	-1,388.82	5,239.73	1,762.01	1,560.13	201.88	8.728	
14,500.00	9,110.00	13,263.65	7,947.50	130.19	130.49	48.58	-1,388.90	5,339.68	1,760.54	1,555.03	205.51	8.567	
14,600.00	9,110.00	13,363.62	7,949.77	132.42	132.75	48.64	-1,388.99	5,439.63	1,759.07	1,549.92	209.16	8.410	
14,700.00	9,110.00	13,463.59	7,952.04	134.66	135.00	48.70	-1,389.08	5,539.58	1,757.60	1,544.79	212.81	8.259	
14,800.00	9,110.00	13,563.57	7,954.30	136.90	137.26	48.75	-1,389.16	5,639.53	1,756.14	1,539.67	216.47	8.113	
14,900.00	9,110.00	13,663.54	7,956.57	139.15	139.52	48.81	-1,389.25	5,739.48	1,754.67	1,534.53	220.14	7.971	
15,000.00	9,110.00	13,763.52	7,958.84	141.39	141.78	48.87	-1,389.34	5,839.43	1,753.21	1,529.39	223.82	7.833	
15,100.00	9,110.00	13,863.49	7,961.10	143.64	144.05	48.92	-1,389.42	5,939.37	1,751.75	1,524.25	227.50	7.700	
15,200.00	9,110.00	13,963.47	7,963.37	145.89	146.31	48.98	-1,389.51	6,039.32	1,750.29	1,519.09	231.19	7.571	
15,300.00	9,110.00	14,063.44	7,965.64	148.14	148.58	49.04	-1,389.60	6,139.27	1,748.83	1,513.93	234.90	7.445	
15,400.00	9,110.00	14,163.41	7,967.90	150.39	150.84	49.09	-1,389.68	6,239.22	1,747.37	1,508.77	238.60	7.323	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #126H - OH - Plan 1													Offset Site Error
Survey Program: 0-MWD-HDGM													Offset Well Error
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)	Semi-Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,500.00	9,110.00	14,263.39	7,970.17	152.65	153.11	49.15	-1,389.77	6,339.17	1,745.92	1,503.60	242.32	7.205	
15,600.00	9,110.00	14,363.36	7,972.44	154.91	155.38	49.21	-1,389.86	6,439.12	1,744.47	1,498.42	246.05	7.090	
15,700.00	9,110.00	14,463.34	7,974.71	157.16	157.65	49.27	-1,389.95	6,539.07	1,743.02	1,493.24	249.78	6.978	
15,800.00	9,110.00	14,563.31	7,976.97	159.42	159.92	49.32	-1,390.03	6,639.01	1,741.57	1,488.05	253.52	6.870	
15,900.00	9,110.00	14,663.29	7,979.24	161.68	162.20	49.38	-1,390.12	6,738.96	1,740.12	1,482.86	257.26	6.764	
16,000.00	9,110.00	14,763.26	7,981.51	163.95	164.47	49.44	-1,390.21	6,838.91	1,738.67	1,477.66	261.02	6.661	
16,100.00	9,110.00	14,863.23	7,983.77	166.21	166.75	49.50	-1,390.29	6,938.86	1,737.23	1,472.45	264.78	6.561	
16,200.00	9,110.00	14,963.21	7,986.04	168.47	169.02	49.55	-1,390.38	7,038.81	1,735.79	1,467.24	268.54	6.464	
16,300.00	9,110.00	15,063.18	7,988.31	170.74	171.30	49.61	-1,390.47	7,138.76	1,734.35	1,462.03	272.32	6.369	
16,400.00	9,110.00	15,163.16	7,990.57	173.01	173.57	49.67	-1,390.55	7,238.71	1,732.91	1,456.81	276.10	6.276	
16,500.00	9,110.00	15,263.13	7,992.84	175.28	175.85	49.73	-1,390.64	7,338.65	1,731.47	1,451.58	279.89	6.186	
16,600.00	9,110.00	15,363.11	7,995.11	177.54	178.13	49.79	-1,390.73	7,438.60	1,730.04	1,446.35	283.68	6.098	
16,700.00	9,110.00	15,463.08	7,997.37	179.82	180.41	49.84	-1,390.81	7,538.55	1,728.60	1,441.12	287.48	6.013	
16,800.00	9,110.00	15,563.05	7,999.64	182.09	182.69	49.90	-1,390.90	7,638.50	1,727.17	1,435.88	291.29	5.929	
16,900.00	9,110.00	15,663.03	8,001.91	184.36	184.97	49.96	-1,390.99	7,738.45	1,725.74	1,430.63	295.11	5.848	
17,000.00	9,110.00	15,763.00	8,004.17	186.63	187.25	50.02	-1,391.07	7,838.40	1,724.31	1,425.38	298.93	5.768	
17,100.00	9,110.00	15,862.98	8,006.44	188.91	189.54	50.08	-1,391.16	7,938.35	1,722.89	1,420.13	302.76	5.691	
17,200.00	9,110.00	15,962.95	8,008.71	191.18	191.82	50.14	-1,391.25	8,038.29	1,721.46	1,414.87	306.59	5.615	
17,300.00	9,110.00	16,062.93	8,010.98	193.46	194.10	50.19	-1,391.33	8,138.24	1,720.04	1,409.61	310.43	5.541	
17,400.00	9,110.00	16,162.90	8,013.24	195.73	196.39	50.25	-1,391.42	8,238.19	1,718.62	1,404.34	314.28	5.468	
17,500.00	9,110.00	16,262.87	8,015.51	198.01	198.67	50.31	-1,391.51	8,338.14	1,717.20	1,399.06	318.14	5.398	
17,600.00	9,110.00	16,362.85	8,017.78	200.29	200.96	50.37	-1,391.60	8,438.09	1,715.78	1,393.79	322.00	5.329	
17,700.00	9,110.00	16,462.82	8,020.04	202.56	203.24	50.43	-1,391.68	8,538.04	1,714.37	1,388.51	325.86	5.261	
17,800.00	9,110.00	16,562.80	8,022.31	204.84	205.53	50.49	-1,391.77	8,637.99	1,712.96	1,383.22	329.74	5.195	
17,900.00	9,110.00	16,662.77	8,024.58	207.12	207.81	50.55	-1,391.86	8,737.93	1,711.54	1,377.93	333.62	5.130	
18,000.00	9,110.00	16,762.75	8,026.84	209.40	210.10	50.61	-1,391.94	8,837.88	1,710.13	1,372.63	337.50	5.067	
18,100.00	9,110.00	16,862.72	8,029.11	211.69	212.39	50.67	-1,392.03	8,937.83	1,708.73	1,367.33	341.39	5.005	
18,200.00	9,110.00	16,962.69	8,031.38	213.97	214.68	50.73	-1,392.12	9,037.78	1,707.32	1,362.03	345.29	4.945	
18,300.00	9,110.00	17,062.67	8,033.64	216.25	216.96	50.79	-1,392.20	9,137.73	1,705.92	1,356.72	349.20	4.885	
18,400.00	9,110.00	17,162.64	8,035.91	218.53	219.25	50.85	-1,392.29	9,237.68	1,704.51	1,351.41	353.11	4.827	
18,500.00	9,110.00	17,262.62	8,038.18	220.82	221.54	50.91	-1,392.38	9,337.62	1,703.11	1,346.09	357.02	4.770	
18,600.00	9,110.00	17,362.59	8,040.45	223.10	223.83	50.97	-1,392.46	9,437.57	1,701.72	1,340.77	360.95	4.715	
18,700.00	9,110.00	17,462.57	8,042.71	225.38	226.12	51.03	-1,392.55	9,537.52	1,700.32	1,335.44	364.88	4.660	
18,800.00	9,110.00	17,562.54	8,044.98	227.67	228.41	51.09	-1,392.64	9,637.47	1,698.92	1,330.11	368.81	4.606	
18,900.00	9,110.00	17,662.51	8,047.25	229.95	230.70	51.15	-1,392.72	9,737.42	1,697.53	1,324.78	372.75	4.554	
19,000.00	9,110.00	17,762.49	8,049.51	232.24	232.99	51.21	-1,392.81	9,837.37	1,696.14	1,319.44	376.70	4.503	
19,100.00	9,110.00	17,862.46	8,051.78	234.53	235.29	51.27	-1,392.90	9,937.32	1,694.75	1,314.10	380.65	4.452	
19,200.00	9,110.00	17,962.44	8,054.05	236.81	237.58	51.33	-1,392.98	10,037.26	1,693.36	1,308.75	384.61	4.403	
19,237.58	9,110.00	17,980.18	8,054.45	237.36	237.98	51.34	-1,393.00	10,055.00	1,692.96	1,307.41	385.55	4.391SF	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim-A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #136H - OH - Prelim B												Offset Site Error: 0.00 usft	
Survey Program: 0-MWD-HDGM												Offset Well Error: 0.00 usft	
Reference		Offset		Semi-Major Axis		Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	Offset Wellbore Centre E/W (usft)	Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	2.00	2.00	0.00	0.00	-170.76	-670.00	-109.00	678.81				
100.00	100.00	102.00	102.00	0.13	0.14	-170.76	-670.00	-109.00	678.81	678.55	0.26	2,576.349	
200.00	200.00	202.00	202.00	0.49	0.49	-170.76	-670.00	-109.00	678.81	677.83	0.98	692.365	
300.00	300.00	302.00	302.00	0.85	0.85	-170.76	-670.00	-109.00	678.81	677.11	1.70	399.919	
400.00	400.00	402.00	402.00	1.20	1.21	-170.76	-670.00	-109.00	678.81	676.39	2.41	281.161	
500.00	500.00	502.00	502.00	1.56	1.57	-170.76	-670.00	-109.00	678.81	675.68	3.13	216.785	
600.00	600.00	602.00	602.00	1.92	1.93	-170.76	-670.00	-109.00	678.81	674.96	3.85	176.397	
700.00	700.00	702.00	702.00	2.28	2.29	-170.76	-670.00	-109.00	678.81	674.24	4.57	148.694	
800.00	800.00	802.00	802.00	2.64	2.64	-170.76	-670.00	-109.00	678.81	673.53	5.28	128.512	
900.00	900.00	902.00	902.00	3.00	3.00	-170.76	-670.00	-109.00	678.81	672.81	6.00	113.153	
1,000.00	1,000.00	1,002.08	1,002.08	3.35	3.36	-170.76	-670.00	-109.00	678.81	672.09	6.72	101.072	
1,100.00	1,099.98	1,105.90	1,105.88	3.71	3.73	-99.39	-670.00	-107.04	678.79	671.36	7.43	91.328	
1,105.57	1,105.54	1,111.66	1,111.64	3.73	3.75	-99.43	-670.00	-106.82	678.79	671.32	7.47	90.844	CC
1,200.00	1,199.84	1,205.31	1,205.22	4.06	4.07	-100.10	-670.00	-103.58	679.16	671.03	8.12	83.593	ES
1,300.00	1,299.45	1,304.57	1,304.43	4.41	4.41	-101.09	-670.00	-100.12	680.30	671.47	8.82	77.093	
1,400.00	1,398.88	1,403.59	1,403.38	4.77	4.76	-102.24	-670.00	-96.66	682.06	672.53	9.53	71.568	
1,500.00	1,498.31	1,502.60	1,502.33	5.14	5.11	-103.39	-670.00	-93.20	684.11	673.87	10.24	66.796	
1,600.00	1,597.74	1,601.61	1,601.29	5.50	5.45	-104.54	-670.00	-89.75	686.44	675.49	10.96	62.646	
1,700.00	1,697.16	1,700.63	1,700.24	5.87	5.80	-105.68	-670.00	-86.29	689.05	677.37	11.68	59.012	
1,800.00	1,796.59	1,800.36	1,799.19	6.24	6.16	-106.80	-670.00	-82.84	691.93	679.53	12.40	55.798	
1,900.00	1,896.02	1,901.35	1,898.15	6.62	6.52	-107.92	-670.00	-79.38	695.08	681.95	13.13	52.933	
2,000.00	1,995.45	2,002.33	1,997.10	6.99	6.88	-109.03	-670.00	-75.93	698.50	684.64	13.86	50.383	
2,100.00	2,094.87	2,103.32	2,096.05	7.37	7.24	-110.13	-670.00	-72.47	702.18	687.59	14.60	48.103	
2,200.00	2,194.30	2,195.69	2,195.00	7.75	7.57	-111.21	-670.00	-69.02	706.12	690.82	15.30	46.148	
2,300.00	2,293.73	2,280.64	2,279.91	8.13	7.86	-112.07	-670.84	-66.78	711.25	695.28	15.97	44.544	
2,400.00	2,393.16	2,365.00	2,364.23	8.50	8.15	-112.77	-673.57	-66.18	718.63	702.01	16.62	43.246	
2,500.00	2,492.59	2,449.40	2,448.49	8.88	8.43	-113.32	-678.17	-67.21	728.17	710.91	17.26	42.198	
2,600.00	2,592.01	2,533.75	2,532.55	9.26	8.72	-113.71	-684.64	-69.87	739.79	721.91	17.89	41.360	
2,700.00	2,691.44	2,632.83	2,631.17	9.64	9.05	-114.08	-693.34	-73.93	752.45	733.86	18.59	40.471	
2,800.00	2,790.87	2,731.92	2,729.78	10.03	9.38	-114.43	-702.03	-77.98	765.14	745.84	19.30	39.642	
2,900.00	2,890.30	2,831.00	2,828.40	10.41	9.72	-114.78	-710.72	-82.04	777.85	757.84	20.01	38.868	
3,000.00	2,989.72	2,930.08	2,927.01	10.79	10.06	-115.11	-719.41	-86.10	790.60	769.87	20.73	38.144	
3,100.00	3,089.15	3,029.16	3,025.63	11.17	10.40	-115.43	-728.10	-90.16	803.36	781.92	21.44	37.466	
3,200.00	3,188.58	3,128.24	3,124.25	11.56	10.75	-115.75	-736.80	-94.22	816.15	793.99	22.16	36.829	
3,300.00	3,288.01	3,227.32	3,222.86	11.94	11.10	-116.05	-745.49	-98.27	828.97	806.09	22.88	36.230	
3,400.00	3,387.43	3,326.40	3,321.48	12.32	11.45	-116.34	-754.18	-102.33	841.81	818.20	23.60	35.666	
3,500.00	3,486.86	3,425.49	3,420.09	12.70	11.80	-116.63	-762.87	-106.39	854.66	830.34	24.33	35.135	
3,600.00	3,586.29	3,524.57	3,518.71	13.09	12.16	-116.91	-771.57	-110.45	867.54	842.49	25.05	34.632	
3,700.00	3,685.72	3,623.65	3,617.33	13.47	12.52	-117.17	-780.26	-114.51	880.44	854.66	25.78	34.157	
3,800.00	3,785.15	3,722.73	3,715.94	13.86	12.87	-117.43	-788.95	-118.56	893.36	866.85	26.50	33.708	
3,900.00	3,884.60	3,821.84	3,814.58	14.24	13.23	-117.76	-797.64	-122.62	906.16	878.93	27.23	33.277	
4,000.00	3,984.31	3,921.17	3,913.45	14.61	13.60	-118.04	-806.36	-126.69	917.63	889.68	27.95	32.831	
4,100.00	4,084.23	4,020.66	4,012.47	14.97	13.96	-118.09	-815.09	-130.77	927.48	898.81	28.66	32.360	
4,200.00	4,184.22	4,120.19	4,111.53	15.31	14.32	-170.43	-823.82	-134.84	935.80	906.44	29.36	31.874	
4,300.00	4,284.22	4,219.72	4,210.60	15.65	14.69	-170.76	-832.55	-138.92	943.79	913.74	30.06	31.401	
4,400.00	4,384.22	4,319.25	4,309.66	15.99	15.06	-171.09	-841.28	-143.00	951.82	921.07	30.75	30.950	
4,500.00	4,484.22	4,418.78	4,408.72	16.33	15.42	-171.41	-850.01	-147.07	959.88	928.43	31.45	30.519	
4,600.00	4,584.22	4,518.31	4,507.78	16.67	15.79	-171.73	-858.74	-151.15	967.97	935.82	32.15	30.107	
4,700.00	4,684.22	4,617.84	4,606.85	17.02	16.16	-172.04	-867.47	-155.22	976.09	943.24	32.85	29.712	
4,800.00	4,784.22	4,717.37	4,705.91	17.36	16.53	-172.34	-876.21	-159.30	984.23	950.68	33.55	29.333	
4,900.00	4,884.22	4,816.90	4,804.97	17.70	16.90	-172.64	-884.94	-163.38	992.41	958.15	34.26	28.971	
5,000.00	4,984.22	4,916.43	4,904.04	18.05	17.27	-172.94	-893.67	-167.45	1,000.61	965.65	34.96	28.623	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim-A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #136H - OH - Prelim-B														Offset Site Error	0.00 usft
Survey Program: 0-MWD-HDGM														Offset Well Error	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)	Semi-Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,100.00	5,084.22	5,015.96	5,003.10	18.39	17.64	173.23	-902.40	-171.53	1,008.83	973.17	35.66	28.288			
5,200.00	5,184.22	5,115.49	5,102.16	18.74	18.01	173.52	-911.13	-175.61	1,017.09	980.72	36.37	27.967			
5,300.00	5,284.22	5,215.02	5,201.22	19.08	18.39	173.80	-919.86	-179.68	1,025.36	988.29	37.07	27.659			
5,400.00	5,384.22	5,314.55	5,300.29	19.43	18.76	174.08	-928.59	-183.76	1,033.67	995.89	37.78	27.362			
5,500.00	5,484.22	5,414.08	5,399.35	19.77	19.13	174.35	-937.33	-187.84	1,041.99	1,003.51	38.48	27.076			
5,600.00	5,584.22	5,513.61	5,498.41	20.12	19.51	174.62	-946.06	-191.91	1,050.34	1,011.15	39.19	26.800			
5,700.00	5,684.22	5,613.14	5,597.47	20.47	19.88	174.89	-954.79	-195.99	1,058.71	1,018.81	39.90	26.535			
5,800.00	5,784.22	5,712.67	5,696.54	20.82	20.25	175.15	-963.52	-200.07	1,067.11	1,026.50	40.61	26.279			
5,900.00	5,884.22	5,812.20	5,795.60	21.16	20.63	175.40	-972.25	-204.14	1,075.52	1,034.21	41.31	26.032			
6,000.00	5,984.22	5,911.73	5,894.66	21.51	21.00	175.66	-980.98	-208.22	1,083.96	1,041.93	42.02	25.794			
6,100.00	6,084.22	6,011.26	5,993.72	21.86	21.38	175.91	-989.71	-212.29	1,092.41	1,049.68	42.73	25.564			
6,200.00	6,184.22	6,110.79	6,092.79	22.21	21.75	176.15	-998.45	-216.37	1,100.89	1,057.45	43.44	25.341			
6,300.00	6,284.22	6,210.32	6,191.85	22.56	22.13	176.39	-1,007.18	-220.45	1,109.39	1,065.24	44.15	25.126			
6,400.00	6,384.22	6,309.85	6,290.91	22.91	22.51	176.63	-1,015.91	-224.52	1,117.91	1,073.04	44.86	24.918			
6,500.00	6,484.22	6,409.38	6,389.97	23.26	22.88	176.86	-1,024.64	-228.60	1,126.44	1,080.87	45.57	24.717			
6,600.00	6,584.22	6,508.91	6,489.04	23.61	23.26	177.09	-1,033.37	-232.68	1,134.99	1,088.71	46.28	24.522			
6,700.00	6,684.22	6,608.44	6,588.10	23.96	23.63	177.32	-1,042.10	-236.75	1,143.57	1,096.57	47.00	24.334			
6,800.00	6,784.22	6,707.97	6,687.16	24.31	24.01	177.54	-1,050.83	-240.83	1,152.15	1,104.45	47.71	24.151			
6,900.00	6,884.22	6,807.50	6,786.23	24.66	24.39	177.77	-1,059.57	-244.91	1,160.76	1,112.34	48.42	23.974			
7,000.00	6,984.22	6,907.03	6,885.29	25.01	24.77	177.98	-1,068.30	-248.98	1,169.38	1,120.25	49.13	23.802			
7,100.00	7,084.22	7,006.57	6,984.35	25.36	25.14	178.20	-1,077.03	-253.06	1,178.02	1,128.18	49.84	23.635			
7,200.00	7,184.22	7,106.10	7,083.41	25.71	25.52	178.41	-1,085.76	-257.14	1,186.68	1,136.12	50.56	23.473			
7,300.00	7,284.22	7,205.63	7,182.48	26.07	25.90	178.61	-1,094.49	-261.21	1,195.35	1,144.08	51.27	23.316			
7,400.00	7,384.22	7,305.16	7,281.54	26.42	26.28	178.82	-1,103.22	-265.29	1,204.04	1,152.06	51.98	23.163			
7,500.00	7,484.22	7,404.69	7,380.60	26.77	26.65	179.02	-1,111.95	-269.36	1,212.74	1,160.05	52.69	23.015			
7,600.00	7,584.22	7,504.22	7,479.66	27.12	27.03	179.22	-1,120.69	-273.44	1,221.46	1,168.05	53.41	22.871			
7,700.00	7,684.22	7,603.75	7,578.73	27.48	27.41	179.42	-1,129.42	-277.52	1,230.19	1,176.07	54.12	22.730			
7,800.00	7,784.22	7,703.28	7,677.79	27.83	27.79	179.61	-1,138.15	-281.59	1,238.93	1,184.10	54.83	22.594			
7,900.00	7,884.22	7,802.81	7,776.85	28.18	28.17	179.80	-1,146.88	-285.67	1,247.69	1,192.14	55.55	22.461			
8,000.00	7,984.22	7,902.34	7,875.91	28.53	28.55	179.99	-1,155.61	-289.75	1,256.46	1,200.20	56.26	22.332			
8,100.00	8,084.22	8,001.87	7,974.98	28.89	28.92	179.83	-1,164.34	-293.82	1,265.25	1,208.27	56.98	22.207			
8,200.00	8,184.22	8,111.22	8,083.83	29.24	29.34	179.63	-1,173.84	-298.26	1,273.99	1,216.24	57.75	22.062			
8,300.00	8,284.22	8,279.15	8,251.44	29.59	29.96	179.44	-1,182.84	-302.46	1,279.38	1,220.60	58.77	21.967			
8,400.00	8,384.22	8,413.95	8,386.22	29.95	30.41	179.42	-1,184.00	-303.00	1,280.07	1,220.49	59.58	21.487			
8,500.00	8,484.22	8,513.95	8,486.22	30.30	30.73	179.42	-1,184.00	-303.00	1,280.07	1,219.81	60.26	21.242			
8,600.00	8,584.17	8,600.00	8,572.25	30.65	31.01	78.51	-1,184.24	-301.94	1,279.99	1,219.08	60.90	21.017			
8,700.00	8,682.61	8,665.91	8,637.66	30.96	31.22	78.75	-1,185.99	-294.32	1,279.11	1,217.68	61.43	20.824			
8,800.00	8,776.63	8,734.09	8,703.91	31.24	31.44	79.25	-1,189.54	-278.79	1,277.36	1,215.46	61.90	20.635			
8,900.00	8,863.36	8,800.00	8,765.72	31.52	31.63	79.96	-1,194.63	-256.59	1,274.88	1,212.54	62.34	20.452			
9,000.00	8,940.19	8,872.54	8,830.23	31.81	31.83	80.95	-1,202.02	-224.34	1,271.87	1,209.07	62.80	20.252			
9,100.00	9,004.76	8,943.46	8,888.76	32.12	32.00	82.12	-1,210.94	-185.39	1,268.62	1,205.31	63.31	20.038			
9,200.00	9,055.12	9,016.02	8,943.07	32.51	32.14	83.46	-1,221.66	-138.56	1,265.46	1,201.53	63.93	19.795			
9,300.00	9,089.74	9,090.74	8,992.19	32.98	32.28	84.93	-1,234.22	-83.74	1,262.72	1,198.03	64.69	19.519			
9,400.00	9,107.57	9,168.28	9,034.98	33.55	32.41	86.52	-1,248.64	-20.78	1,260.78	1,195.17	65.62	19.214			
9,435.33	9,110.24	9,196.68	9,048.42	33.79	32.47	87.09	-1,254.22	3.61	1,260.54	1,194.54	65.99	19.101			
9,500.00	9,110.00	9,250.20	9,070.29	34.22	32.64	88.10	-1,265.12	51.20	1,260.63	1,193.93	66.70	18.900			
9,600.00	9,110.00	9,340.97	9,096.68	35.02	33.11	89.30	-1,284.49	135.76	1,266.41	1,198.40	68.01	18.620			
9,700.00	9,110.00	9,437.98	9,109.37	35.95	33.75	89.88	-1,305.94	229.40	1,278.01	1,208.43	69.58	18.368			
9,800.00	9,110.00	9,595.43	9,110.00	37.00	35.03	89.91	-1,338.17	383.49	1,293.25	1,221.39	71.86	17.996			
9,900.00	9,110.00	9,776.78	9,110.00	38.15	36.88	89.91	-1,364.89	562.83	1,307.15	1,232.41	74.75	17.487			
10,000.00	9,110.00	9,960.58	9,110.00	39.40	39.08	89.91	-1,380.33	745.94	1,315.52	1,237.51	78.01	16.864			
10,100.00	9,110.00	10,127.86	9,110.00	40.74	41.33	89.91	-1,384.24	913.16	1,317.59	1,236.23	81.36	16.195			

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com (Slot 1)
Site Error: 0.00 usft
Reference Well: #135H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #135H
TVD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
MD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #136H - OH - Prelim-B													Offset Site Error: 0.00 usft
Survey Program: 0-MWD-HDGM													Offset Well Error: 0.00 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 N/S (usft)	Offset Wellbore E/W (usft)					
10,200.00	9,110.00	10,227.86	9,110.00	42.17	42.77	89.91	-1,384.33	1,013.16	1,317.64	1,233.39	84.25	15.640	
10,300.00	9,110.00	10,327.86	9,110.00	43.67	44.29	89.91	-1,384.43	1,113.16	1,317.68	1,230.39	87.29	15.096	
10,400.00	9,110.00	10,427.86	9,110.00	45.24	45.87	89.91	-1,384.52	1,213.16	1,317.73	1,227.27	90.46	14.567	
10,500.00	9,110.00	10,527.86	9,110.00	46.87	47.51	89.91	-1,384.62	1,313.16	1,317.78	1,224.02	93.76	14.055	
10,600.00	9,110.00	10,627.86	9,110.00	48.55	49.20	89.91	-1,384.71	1,413.16	1,317.83	1,220.67	97.16	13.564	
10,700.00	9,110.00	10,727.86	9,110.00	50.29	50.95	89.91	-1,384.81	1,513.16	1,317.88	1,217.22	100.66	13.093	
10,800.00	9,110.00	10,827.86	9,110.00	52.07	52.73	89.91	-1,384.91	1,613.16	1,317.93	1,213.68	104.24	12.643	
10,900.00	9,110.00	10,927.86	9,110.00	53.89	54.56	89.91	-1,385.00	1,713.16	1,317.97	1,210.07	107.90	12.214	
11,000.00	9,110.00	11,027.86	9,110.00	55.74	56.42	89.91	-1,385.10	1,813.16	1,318.02	1,206.38	111.64	11.806	
11,100.00	9,110.00	11,127.86	9,110.00	57.63	58.31	89.91	-1,385.19	1,913.16	1,318.07	1,202.63	115.44	11.418	
11,200.00	9,110.00	11,227.86	9,110.00	59.55	60.23	89.91	-1,385.29	2,013.16	1,318.12	1,198.82	119.29	11.049	
11,300.00	9,110.00	11,327.86	9,110.00	61.50	62.18	89.91	-1,385.39	2,113.16	1,318.17	1,194.96	123.20	10.699	
11,400.00	9,110.00	11,427.86	9,110.00	63.47	64.15	89.91	-1,385.48	2,213.16	1,318.22	1,191.06	127.16	10.367	
11,500.00	9,110.00	11,527.86	9,110.00	65.46	66.15	89.91	-1,385.58	2,313.16	1,318.26	1,187.10	131.16	10.051	
11,600.00	9,110.00	11,627.86	9,110.00	67.47	68.16	89.91	-1,385.67	2,413.16	1,318.31	1,183.11	135.20	9.751	
11,700.00	9,110.00	11,727.86	9,110.00	69.50	70.19	89.91	-1,385.77	2,513.16	1,318.36	1,179.09	139.27	9.466	
11,800.00	9,110.00	11,827.86	9,110.00	71.55	72.24	89.91	-1,385.87	2,613.16	1,318.41	1,175.03	143.38	9.195	
11,900.00	9,110.00	11,927.86	9,110.00	73.61	74.30	89.91	-1,385.96	2,713.16	1,318.46	1,170.94	147.52	8.938	
12,000.00	9,110.00	12,027.86	9,110.00	75.69	76.38	89.91	-1,386.06	2,813.15	1,318.50	1,166.82	151.68	8.692	
12,100.00	9,110.00	12,127.86	9,110.00	77.78	78.47	89.91	-1,386.15	2,913.15	1,318.55	1,162.68	155.88	8.459	
12,200.00	9,110.00	12,227.86	9,110.00	79.88	80.57	89.91	-1,386.25	3,013.15	1,318.60	1,158.51	160.09	8.237	
12,300.00	9,110.00	12,327.86	9,110.00	82.00	82.69	89.91	-1,386.34	3,113.15	1,318.65	1,154.32	164.33	8.025	
12,400.00	9,110.00	12,427.86	9,110.00	84.12	84.81	89.91	-1,386.44	3,213.15	1,318.70	1,150.11	168.58	7.822	
12,500.00	9,110.00	12,527.86	9,110.00	86.26	86.94	89.91	-1,386.54	3,313.15	1,318.75	1,145.89	172.86	7.629	
12,600.00	9,110.00	12,627.86	9,110.00	88.40	89.09	89.91	-1,386.63	3,413.15	1,318.79	1,141.64	177.15	7.444	
12,700.00	9,110.00	12,727.86	9,110.00	90.55	91.23	89.91	-1,386.73	3,513.15	1,318.84	1,137.38	181.46	7.268	
12,800.00	9,110.00	12,827.86	9,110.00	92.71	93.39	89.91	-1,386.82	3,613.15	1,318.89	1,133.11	185.78	7.099	
12,900.00	9,110.00	12,927.86	9,110.00	94.87	95.56	89.91	-1,386.92	3,713.15	1,318.94	1,128.82	190.12	6.937	
13,000.00	9,110.00	13,027.86	9,110.00	97.04	97.73	89.91	-1,387.02	3,813.15	1,318.99	1,124.52	194.47	6.783	
13,100.00	9,110.00	13,127.86	9,110.00	99.22	99.91	89.91	-1,387.11	3,913.15	1,319.04	1,120.21	198.83	6.634	
13,200.00	9,110.00	13,227.86	9,110.00	101.40	102.09	89.91	-1,387.21	4,013.15	1,319.08	1,115.88	203.20	6.491	
13,300.00	9,110.00	13,327.86	9,110.00	103.59	104.28	89.91	-1,387.30	4,113.15	1,319.13	1,111.55	207.59	6.355	
13,400.00	9,110.00	13,427.86	9,110.00	105.79	106.47	89.91	-1,387.40	4,213.15	1,319.18	1,107.20	211.98	6.223	
13,500.00	9,110.00	13,527.86	9,110.00	107.99	108.67	89.91	-1,387.50	4,313.15	1,319.23	1,102.85	216.38	6.097	
13,600.00	9,110.00	13,627.86	9,110.00	110.19	110.87	89.91	-1,387.59	4,413.15	1,319.28	1,098.48	220.79	5.975	
13,700.00	9,110.00	13,727.86	9,110.00	112.40	113.08	89.91	-1,387.69	4,513.15	1,319.33	1,094.11	225.21	5.858	
13,800.00	9,110.00	13,827.86	9,110.00	114.61	115.29	89.91	-1,387.78	4,613.15	1,319.37	1,089.73	229.64	5.745	
13,900.00	9,110.00	13,927.86	9,110.00	116.83	117.50	89.91	-1,387.88	4,713.15	1,319.42	1,085.34	234.08	5.637	
14,000.00	9,110.00	14,027.86	9,110.00	119.04	119.72	89.91	-1,387.97	4,813.15	1,319.47	1,080.95	238.52	5.532	
14,100.00	9,110.00	14,127.86	9,110.00	121.27	121.94	89.91	-1,388.07	4,913.15	1,319.52	1,076.55	242.97	5.431	
14,200.00	9,110.00	14,227.86	9,110.00	123.49	124.17	89.91	-1,388.17	5,013.15	1,319.57	1,072.14	247.42	5.333	
14,300.00	9,110.00	14,327.86	9,110.00	125.72	126.40	89.91	-1,388.26	5,113.15	1,319.61	1,067.73	251.88	5.239	
14,400.00	9,110.00	14,427.86	9,110.00	127.95	128.63	89.91	-1,388.36	5,213.15	1,319.66	1,063.31	256.35	5.148	
14,500.00	9,110.00	14,527.86	9,110.00	130.19	130.86	89.91	-1,388.45	5,313.15	1,319.71	1,058.89	260.82	5.060	
14,600.00	9,110.00	14,627.86	9,110.00	132.42	133.10	89.91	-1,388.55	5,413.15	1,319.76	1,054.46	265.30	4.975	
14,700.00	9,110.00	14,727.86	9,110.00	134.66	135.34	89.91	-1,388.65	5,513.15	1,319.81	1,050.03	269.78	4.892	
14,800.00	9,110.00	14,827.86	9,110.00	136.90	137.58	89.91	-1,388.74	5,613.15	1,319.86	1,045.59	274.26	4.812	
14,900.00	9,110.00	14,927.86	9,110.00	139.15	139.82	89.91	-1,388.84	5,713.15	1,319.90	1,041.15	278.75	4.735	
15,000.00	9,110.00	15,027.86	9,110.00	141.39	142.06	89.91	-1,388.93	5,813.15	1,319.95	1,036.70	283.25	4.660	
15,100.00	9,110.00	15,127.86	9,110.00	143.64	144.31	89.91	-1,389.03	5,913.15	1,320.00	1,032.25	287.75	4.587	
15,200.00	9,110.00	15,227.86	9,110.00	145.89	146.56	89.91	-1,389.12	6,013.15	1,320.05	1,027.80	292.25	4.517	
15,300.00	9,110.00	15,327.86	9,110.00	148.14	148.81	89.91	-1,389.22	6,113.15	1,320.10	1,023.34	296.75	4.448	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00' usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00' usft	Output errors are at:	2.00' sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim-A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #136H - OH - Prelim.B												Offset Site Error:	0.00' usft
Survey Program: 0-MWD-HDGM												Offset Well Error:	0.00' usft
Reference	Offset	Semi-Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	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	
15,400.00	9,110.00	15,427.86	9,110.00	150.39	151.06	89.91	-1,389.32	6,213.15	1,320.15	1,018.88	301.26	4.382	
15,500.00	9,110.00	15,527.86	9,110.00	152.65	153.32	89.91	-1,389.41	6,313.15	1,320.19	1,014.42	305.77	4.318	
15,600.00	9,110.00	15,627.86	9,110.00	154.91	155.57	89.91	-1,389.51	6,413.15	1,320.24	1,009.95	310.29	4.255	
15,700.00	9,110.00	15,727.86	9,110.00	157.16	157.83	89.91	-1,389.60	6,513.15	1,320.29	1,005.48	314.81	4.194	
15,800.00	9,110.00	15,827.86	9,110.00	159.42	160.09	89.91	-1,389.70	6,613.15	1,320.34	1,001.01	319.33	4.135	
15,900.00	9,110.00	15,927.86	9,110.00	161.68	162.35	89.91	-1,389.80	6,713.15	1,320.39	996.53	323.85	4.077	
16,000.00	9,110.00	16,027.86	9,110.00	163.95	164.61	89.91	-1,389.89	6,813.15	1,320.44	992.06	328.38	4.021	
16,100.00	9,110.00	16,127.86	9,110.00	166.21	166.87	89.91	-1,389.99	6,913.15	1,320.48	987.58	332.91	3.967	
16,200.00	9,110.00	16,227.86	9,110.00	168.47	169.14	89.91	-1,390.08	7,013.15	1,320.53	983.09	337.44	3.913	
16,300.00	9,110.00	16,327.86	9,110.00	170.74	171.40	89.91	-1,390.18	7,113.15	1,320.58	978.61	341.97	3.862	
16,400.00	9,110.00	16,427.86	9,110.00	173.01	173.67	89.91	-1,390.28	7,213.15	1,320.63	974.12	346.51	3.811	
16,500.00	9,110.00	16,527.86	9,110.00	175.28	175.94	89.91	-1,390.37	7,313.15	1,320.68	969.63	351.05	3.762	
16,600.00	9,110.00	16,627.86	9,110.00	177.54	178.21	89.91	-1,390.47	7,413.15	1,320.73	965.14	355.59	3.714	
16,700.00	9,110.00	16,727.86	9,110.00	179.82	180.48	89.91	-1,390.56	7,513.15	1,320.77	960.65	360.13	3.668	
16,800.00	9,110.00	16,827.86	9,110.00	182.09	182.75	89.91	-1,390.66	7,613.15	1,320.82	956.15	364.67	3.622	
16,900.00	9,110.00	16,927.86	9,110.00	184.36	185.02	89.91	-1,390.75	7,713.15	1,320.87	951.65	369.22	3.577	
17,000.00	9,110.00	17,027.86	9,110.00	186.63	187.29	89.91	-1,390.85	7,813.15	1,320.92	947.15	373.76	3.534	
17,100.00	9,110.00	17,127.86	9,110.00	188.91	189.56	89.91	-1,390.95	7,913.15	1,320.97	942.65	378.31	3.492	
17,200.00	9,110.00	17,227.86	9,110.00	191.18	191.84	89.91	-1,391.04	8,013.15	1,321.01	938.15	382.86	3.450	
17,300.00	9,110.00	17,327.86	9,110.00	193.46	194.11	89.91	-1,391.14	8,113.15	1,321.06	933.65	387.42	3.410	
17,400.00	9,110.00	17,427.86	9,110.00	195.73	196.39	89.91	-1,391.23	8,213.15	1,321.11	929.14	391.97	3.370	
17,500.00	9,110.00	17,527.86	9,110.00	198.01	198.67	89.91	-1,391.33	8,313.15	1,321.16	924.63	396.53	3.332	
17,600.00	9,110.00	17,627.86	9,110.00	200.29	200.94	89.91	-1,391.43	8,413.15	1,321.21	920.13	401.08	3.294	
17,700.00	9,110.00	17,727.86	9,110.00	202.56	203.22	89.91	-1,391.52	8,513.15	1,321.26	915.62	405.64	3.257	
17,800.00	9,110.00	17,827.86	9,110.00	204.84	205.50	89.91	-1,391.62	8,613.15	1,321.30	911.10	410.20	3.221	
17,900.00	9,110.00	17,927.86	9,110.00	207.12	207.78	89.91	-1,391.71	8,713.15	1,321.35	906.59	414.76	3.186	
18,000.00	9,110.00	18,027.86	9,110.00	209.40	210.06	89.91	-1,391.81	8,813.15	1,321.40	902.08	419.32	3.151	
18,100.00	9,110.00	18,127.86	9,110.00	211.69	212.34	89.91	-1,391.91	8,913.15	1,321.45	897.56	423.89	3.117	
18,200.00	9,110.00	18,227.86	9,110.00	213.97	214.62	89.91	-1,392.00	9,013.15	1,321.50	893.05	428.45	3.084	
18,300.00	9,110.00	18,327.86	9,110.00	216.25	216.90	89.91	-1,392.10	9,113.15	1,321.55	888.53	433.01	3.052	
18,400.00	9,110.00	18,427.86	9,110.00	218.53	219.18	89.91	-1,392.19	9,213.15	1,321.59	884.01	437.58	3.020	
18,500.00	9,110.00	18,527.86	9,110.00	220.82	221.47	89.91	-1,392.29	9,313.15	1,321.64	879.49	442.15	2.989	
18,600.00	9,110.00	18,627.86	9,110.00	223.10	223.75	89.91	-1,392.38	9,413.15	1,321.69	874.97	446.72	2.959	
18,700.00	9,110.00	18,727.86	9,110.00	225.38	226.03	89.91	-1,392.48	9,513.15	1,321.74	870.45	451.29	2.929	
18,800.00	9,110.00	18,827.86	9,110.00	227.67	228.32	89.91	-1,392.58	9,613.15	1,321.79	865.93	455.86	2.900	
18,900.00	9,110.00	18,927.86	9,110.00	229.95	230.60	89.91	-1,392.67	9,713.15	1,321.84	861.41	460.43	2.871	
19,000.00	9,110.00	19,027.86	9,110.00	232.24	232.89	89.91	-1,392.77	9,813.15	1,321.88	856.88	465.00	2.843	
19,100.00	9,110.00	19,127.86	9,110.00	234.53	235.18	89.91	-1,392.86	9,913.15	1,321.93	852.36	469.58	2.815	
19,200.00	9,110.00	19,227.86	9,110.00	236.81	237.46	89.91	-1,392.96	10,013.15	1,321.98	847.83	474.15	2.788	
19,237.58	9,110.00	19,265.44	9,110.00	237.36	238.32	89.91	-1,393.00	10,050.73	1,322.00	846.44	475.56	2.780 SF	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #206H - OH - Prelim B												Offset Site Error	0.00 usft
Survey Program: 0-MWD-HDGM												Offset Well Error	0.00 usft
Reference	Offset	Semi-Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Factor		
0.00	0.00	3.00	3.00	0.00	0.00	-168.28	-670.00	-139.00	684.27				
100.00	100.00	103.00	103.00	0.13	0.14	-168.28	-670.00	-139.00	684.27	684.00	0.27	2,562.205	
200.00	200.00	203.00	203.00	0.49	0.50	-168.28	-670.00	-139.00	684.27	683.28	0.98	695.390	
300.00	300.00	303.00	303.00	0.85	0.86	-168.28	-670.00	-139.00	684.27	682.57	1.70	402.286	
400.00	400.00	403.00	403.00	1.20	1.21	-168.28	-670.00	-139.00	684.27	681.85	2.42	283.002	
500.00	500.00	503.00	503.00	1.56	1.57	-168.28	-670.00	-139.00	684.27	681.13	3.13	218.278	
600.00	600.00	603.00	603.00	1.92	1.93	-168.28	-670.00	-139.00	684.27	680.41	3.85	177.650	
700.00	700.00	703.00	703.00	2.28	2.29	-168.28	-670.00	-139.00	684.27	679.70	4.57	149.772	
800.00	800.00	803.00	803.00	2.64	2.65	-168.28	-670.00	-139.00	684.27	678.98	5.29	129.457	
900.00	900.00	903.00	903.00	3.00	3.01	-168.28	-670.00	-139.00	684.27	678.26	6.00	113.995	
1,000.00	1,000.00	1,003.00	1,003.00	3.35	3.37	-168.28	-670.00	-139.00	684.27	677.55	6.72	101.832 CC, ES	
1,100.00	1,099.98	1,085.83	1,085.82	3.71	3.65	-96.63	-670.91	-139.91	685.76	678.40	7.36	93.233	
1,200.00	1,199.84	1,182.88	1,182.81	4.06	3.97	-96.63	-673.28	-142.28	689.25	681.22	8.03	85.846	
1,300.00	1,299.45	1,282.57	1,282.44	4.41	4.31	-97.30	-675.74	-144.74	693.23	684.51	8.72	79.509	
1,400.00	1,398.88	1,382.11	1,381.91	4.77	4.65	-98.01	-678.20	-147.20	697.55	688.14	9.42	74.074	
1,500.00	1,498.31	1,481.64	1,481.39	5.14	4.99	-98.70	-680.65	-149.65	701.98	691.86	10.12	69.354	
1,600.00	1,597.74	1,581.17	1,580.86	5.50	5.33	-99.40	-683.11	-152.11	706.51	695.68	10.83	65.225	
1,700.00	1,697.16	1,680.71	1,680.33	5.87	5.68	-100.08	-685.56	-154.56	711.14	699.60	11.55	61.590	
1,800.00	1,796.59	1,780.24	1,779.81	6.24	6.03	-100.75	-688.02	-157.02	715.87	703.61	12.26	58.370	
1,900.00	1,896.02	1,879.78	1,879.28	6.62	6.38	-101.41	-690.48	-159.48	720.70	707.72	12.99	55.500	
2,000.00	1,995.45	1,979.31	1,978.76	6.99	6.73	-102.07	-692.93	-161.93	725.63	711.92	13.71	52.931	
2,100.00	2,094.87	2,078.85	2,078.23	7.37	7.08	-102.71	-695.39	-164.39	730.65	716.21	14.43	50.618	
2,200.00	2,194.30	2,178.38	2,177.70	7.75	7.43	-103.35	-697.85	-166.85	735.76	720.60	15.16	48.527	
2,300.00	2,293.73	2,277.92	2,277.18	8.13	7.79	-103.98	-700.30	-169.30	740.96	725.07	15.89	46.628	
2,400.00	2,393.16	2,377.45	2,376.65	8.50	8.14	-104.60	-702.76	-171.76	746.25	729.63	16.62	44.898	
2,500.00	2,492.59	2,476.99	2,476.13	8.88	8.50	-105.21	-705.21	-174.21	751.63	734.27	17.35	43.316	
2,600.00	2,592.01	2,560.70	2,559.77	9.26	8.79	-105.72	-707.90	-176.31	757.88	739.86	18.02	42.068	
2,700.00	2,691.44	2,639.12	2,638.02	9.64	9.08	-106.18	-712.54	-178.37	766.86	748.21	18.65	41.129	
2,800.00	2,790.87	2,717.10	2,715.68	10.03	9.36	-106.63	-719.28	-180.52	778.62	759.36	19.26	40.427	
2,900.00	2,890.30	2,794.53	2,792.58	10.41	9.64	-107.06	-728.05	-182.74	793.14	773.28	19.86	39.940	
3,000.00	2,989.72	2,886.31	2,883.49	10.79	9.97	-107.55	-740.34	-185.47	809.75	789.21	20.54	39.421	
3,100.00	3,089.15	2,984.63	2,980.87	11.17	10.34	-108.06	-753.60	-188.39	826.54	805.27	21.27	38.865	
3,200.00	3,188.58	3,082.95	3,078.25	11.56	10.70	-108.54	-766.87	-191.31	843.40	821.40	21.99	38.346	
3,300.00	3,288.01	3,181.28	3,175.63	11.94	11.07	-109.01	-780.13	-194.23	860.31	837.58	22.72	37.861	
3,400.00	3,387.43	3,279.60	3,273.01	12.32	11.44	-109.45	-793.40	-197.15	877.27	853.82	23.45	37.406	
3,500.00	3,486.86	3,377.92	3,370.39	12.70	11.82	-109.88	-806.66	-200.07	894.28	870.10	24.18	36.979	
3,600.00	3,586.29	3,476.24	3,467.77	13.09	12.19	-110.30	-819.93	-203.00	911.34	886.43	24.92	36.577	
3,700.00	3,685.72	3,574.57	3,565.15	13.47	12.57	-110.70	-833.19	-205.92	928.45	902.80	25.65	36.198	
3,800.00	3,785.15	3,672.89	3,662.53	13.86	12.95	-111.08	-846.46	-208.84	945.60	919.22	26.38	35.841	
3,900.00	3,884.60	3,771.25	3,759.94	14.24	13.33	-111.57	-859.73	-211.76	962.68	935.57	27.12	35.502	
4,000.00	3,984.31	3,869.89	3,857.64	14.61	13.71	-112.05	-873.04	-214.69	978.74	950.90	27.84	35.153	
4,100.00	4,084.23	3,968.79	3,955.59	14.97	14.10	-112.32	-886.38	-217.63	993.51	964.95	28.56	34.790	
4,200.00	4,184.22	4,067.82	4,053.67	15.31	14.48	-112.61	-899.74	-220.57	1,007.05	977.79	29.26	34.417	
4,300.00	4,284.22	4,166.86	4,151.76	15.65	14.87	-112.90	-913.10	-223.52	1,020.32	990.36	29.96	34.056	
4,400.00	4,384.22	4,265.90	4,249.85	15.99	15.26	-113.19	-926.46	-226.46	1,033.61	1,002.94	30.66	33.711	
4,500.00	4,484.22	4,364.94	4,347.94	16.33	15.65	-113.48	-939.83	-229.40	1,046.90	1,015.54	31.36	33.380	
4,600.00	4,584.22	4,463.98	4,446.03	16.67	16.04	-113.77	-953.19	-232.34	1,060.21	1,028.15	32.07	33.063	
4,700.00	4,684.22	4,563.02	4,544.12	17.02	16.43	-114.06	-966.55	-235.29	1,073.54	1,040.77	32.77	32.760	
4,800.00	4,784.22	4,662.06	4,642.22	17.36	16.82	-114.35	-979.91	-238.23	1,086.87	1,053.40	33.47	32.468	
4,900.00	4,884.22	4,761.11	4,740.31	17.70	17.21	-114.64	-993.27	-241.17	1,100.22	1,066.04	34.18	32.189	
5,000.00	4,984.22	4,860.15	4,838.40	18.05	17.60	-114.93	-1,006.63	-244.12	1,113.58	1,078.69	34.89	31.920	
5,100.00	5,084.22	4,959.19	4,936.49	18.39	17.99	-115.22	-1,020.00	-247.06	1,126.95	1,091.35	35.59	31.661	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey/Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #206H - OH - Prelim B														Offset Site Error:
Survey Program: 0-MWD-HDGM														Offset Well Error:
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		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		
5,200.00	5,184.22	5,058.23	5,034.58	18.74	18.39	177.97	-1,033.36	-250.00	1,140.33	1,104.03	36.30	31.413		
5,300.00	5,284.22	5,157.27	5,132.67	19.08	18.78	178.14	-1,046.72	-252.94	1,153.72	1,116.71	37.01	31.174		
5,400.00	5,384.22	5,256.31	5,230.77	19.43	19.18	178.31	-1,060.08	-255.89	1,167.12	1,129.40	37.72	30.943		
5,500.00	5,484.22	5,355.35	5,328.86	19.77	19.57	178.47	-1,073.44	-258.83	1,180.53	1,142.10	38.43	30.721		
5,600.00	5,584.22	5,454.39	5,426.95	20.12	19.97	178.63	-1,086.81	-261.77	1,193.95	1,154.81	39.14	30.507		
5,700.00	5,684.22	5,553.43	5,525.04	20.47	20.36	178.79	-1,100.17	-264.72	1,207.38	1,167.53	39.85	30.300		
5,800.00	5,784.22	5,652.48	5,623.13	20.82	20.76	178.94	-1,113.53	-267.66	1,220.81	1,180.26	40.56	30.100		
5,900.00	5,884.22	5,751.52	5,721.22	21.16	21.15	179.09	-1,126.89	-270.60	1,234.26	1,192.99	41.27	29.907		
6,000.00	5,984.22	5,850.56	5,819.32	21.51	21.55	179.24	-1,140.25	-273.54	1,247.71	1,205.73	41.98	29.720		
6,100.00	6,084.22	5,949.60	5,917.41	21.86	21.95	179.38	-1,153.62	-276.49	1,261.17	1,218.48	42.69	29.540		
6,200.00	6,184.22	6,048.64	6,015.50	22.21	22.35	179.52	-1,166.98	-279.43	1,274.64	1,231.24	43.41	29.365		
6,300.00	6,284.22	6,147.68	6,113.59	22.56	22.74	179.66	-1,180.34	-282.37	1,288.12	1,244.00	44.12	29.196		
6,400.00	6,384.22	6,246.72	6,211.68	22.91	23.14	179.79	-1,193.70	-285.31	1,301.60	1,256.77	44.83	29.033		
6,500.00	6,484.22	6,345.76	6,309.77	23.26	23.54	179.92	-1,207.06	-288.26	1,315.09	1,269.55	45.55	28.874		
6,600.00	6,584.22	6,444.81	6,407.86	23.61	23.94	179.95	-1,220.42	-291.20	1,328.59	1,282.33	46.26	28.720		
6,700.00	6,684.22	6,543.85	6,505.96	23.96	24.34	179.82	-1,233.79	-294.14	1,342.09	1,295.12	46.97	28.571		
6,800.00	6,784.22	6,642.89	6,604.05	24.31	24.74	179.70	-1,247.15	-297.09	1,355.60	1,307.91	47.69	28.426		
6,900.00	6,884.22	6,742.51	6,703.59	24.66	25.45	179.52	-1,260.52	-300.02	1,369.08	1,320.70	48.40	28.283		
7,000.00	6,984.22	7,016.09	6,975.98	25.01	26.12	179.46	-1,273.90	-302.98	1,370.01	1,320.10	49.91	27.449		
7,100.00	7,084.22	7,127.33	7,087.22	25.36	26.47	179.46	-1,274.00	-303.00	1,370.06	1,319.44	50.62	27.067		
7,200.00	7,184.22	7,227.33	7,187.22	25.71	26.78	179.46	-1,274.00	-303.00	1,370.06	1,318.77	51.30	26.709		
7,300.00	7,284.22	7,327.33	7,287.22	26.07	27.09	179.46	-1,274.00	-303.00	1,370.06	1,318.09	51.97	26.360		
7,400.00	7,384.22	7,427.33	7,387.22	26.42	27.41	179.46	-1,274.00	-303.00	1,370.06	1,317.41	52.65	26.020		
7,500.00	7,484.22	7,527.33	7,487.22	26.77	27.72	179.46	-1,274.00	-303.00	1,370.06	1,316.73	53.34	25.688		
7,600.00	7,584.22	7,627.33	7,587.22	27.12	28.03	179.46	-1,274.00	-303.00	1,370.06	1,316.04	54.02	25.363		
7,700.00	7,684.22	7,727.33	7,687.22	27.48	28.35	179.46	-1,274.00	-303.00	1,370.06	1,315.36	54.70	25.047		
7,800.00	7,784.22	7,827.33	7,787.22	27.83	28.67	179.46	-1,274.00	-303.00	1,370.06	1,314.68	55.38	24.738		
7,900.00	7,884.22	7,927.33	7,887.22	28.18	28.99	179.46	-1,274.00	-303.00	1,370.06	1,313.99	56.07	24.436		
8,000.00	7,984.22	8,027.33	7,987.22	28.53	29.31	179.46	-1,274.00	-303.00	1,370.06	1,313.31	56.75	24.141		
8,100.00	8,084.22	8,127.33	8,087.22	28.89	29.62	179.46	-1,274.00	-303.00	1,370.06	1,312.62	57.44	23.852		
8,200.00	8,184.22	8,227.33	8,187.22	29.24	29.95	179.46	-1,274.00	-303.00	1,370.06	1,311.94	58.13	23.571		
8,300.00	8,284.22	8,327.33	8,287.22	29.59	30.27	179.46	-1,274.00	-303.00	1,370.06	1,311.25	58.81	23.295		
8,400.00	8,384.22	8,427.33	8,387.22	29.95	30.59	179.46	-1,274.00	-303.00	1,370.06	1,310.56	59.50	23.026		
8,500.00	8,484.22	8,527.33	8,487.22	30.30	30.91	179.46	-1,274.00	-303.00	1,370.06	1,309.87	60.19	22.762		
8,600.00	8,584.17	8,627.28	8,587.17	30.65	31.24	78.56	-1,274.00	-303.00	1,369.67	1,308.80	60.87	22.501		
8,700.00	8,682.61	8,724.93	8,684.82	30.96	31.55	79.55	-1,274.00	-302.99	1,366.42	1,304.91	61.51	22.216		
8,800.00	8,776.63	8,801.17	8,760.81	31.24	31.80	80.92	-1,274.78	-297.62	1,361.18	1,299.12	62.06	21.934		
8,900.00	8,863.36	8,879.61	8,837.53	31.52	32.05	82.53	-1,277.07	-281.72	1,355.08	1,292.50	62.58	21.653		
9,000.00	8,940.19	8,960.88	8,913.93	31.81	32.29	84.35	-1,280.99	-254.48	1,348.51	1,285.40	63.11	21.367		
9,100.00	9,004.76	9,045.76	8,988.71	32.12	32.51	86.34	-1,286.69	-214.93	1,341.86	1,278.18	63.68	21.073		
9,200.00	9,055.12	9,135.21	9,060.24	32.51	32.71	88.46	-1,294.33	-161.90	1,335.52	1,271.21	64.31	20.766		
9,300.00	9,089.74	9,230.52	9,126.28	32.98	32.89	90.68	-1,304.11	-94.04	1,329.85	1,264.79	65.06	20.441		
9,400.00	9,107.57	9,333.23	9,183.68	33.55	33.07	92.95	-1,316.24	-9.90	1,325.10	1,259.17	65.93	20.098		
9,500.00	9,110.00	9,446.10	9,228.16	34.22	33.38	95.00	-1,331.00	92.57	1,321.78	1,254.80	66.98	19.733		
9,541.60	9,110.00	9,497.61	9,241.52	34.55	33.62	95.58	-1,338.10	141.80	1,321.47	1,253.93	67.54	19.565		
9,600.00	9,110.00	9,573.37	9,252.92	35.02	34.09	96.08	-1,348.77	215.88	1,322.01	1,253.59	68.43	19.320		
9,700.00	9,110.00	9,739.04	9,255.00	35.95	35.37	96.16	-1,370.03	380.11	1,324.39	1,253.84	70.55	18.771		
9,800.00	9,110.00	9,924.18	9,255.00	37.00	37.19	96.15	-1,382.97	564.76	1,325.83	1,252.59	73.24	18.104		
9,900.00	9,110.00	10,072.75	9,255.00	38.15	38.90	96.15	-1,385.04	713.30	1,326.12	1,250.17	75.95	17.461		
10,000.00	9,110.00	10,172.75	9,255.00	39.40	40.17	96.15	-1,385.13	813.30	1,326.15	1,247.68	78.47	16.900		
10,100.00	9,110.00	10,272.75	9,255.00	40.74	41.53	96.15	-1,385.22	913.30	1,326.19	1,245.02	81.17	16.338		
10,200.00	9,110.00	10,372.75	9,255.00	42.17	42.97	96.15	-1,385.30	1,013.30	1,326.23	1,242.19	84.04	15.781		

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com (Slot 1)
Site Error: 0.00 usft
Reference Well: #135H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #135H
TVD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
MD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
North Reference: Grid
Survey/Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #206H - OH - Prelim B													Offset Site Error: 0.00usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00usft
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	Warning
10,300.00	9,110.00	10,472.75	9,255.00	43.67	44.49	96.15	-1,385.39	1,113.30	1,326.26	1,239.21	87.05	15.235	
10,400.00	9,110.00	10,572.75	9,255.00	45.24	46.07	96.15	-1,385.47	1,213.30	1,326.30	1,236.10	90.20	14.704	
10,500.00	9,110.00	10,672.75	9,255.00	46.87	47.71	96.15	-1,385.56	1,313.30	1,326.34	1,232.87	93.47	14.190	
10,600.00	9,110.00	10,772.75	9,255.00	48.55	49.40	96.15	-1,385.64	1,413.30	1,326.38	1,229.53	96.84	13.696	
10,700.00	9,110.00	10,872.75	9,255.00	50.29	51.14	96.15	-1,385.73	1,513.30	1,326.41	1,226.10	100.32	13.222	
10,800.00	9,110.00	10,972.75	9,255.00	52.07	52.92	96.15	-1,385.81	1,613.30	1,326.45	1,222.57	103.88	12.769	
10,900.00	9,110.00	11,072.75	9,255.00	53.89	54.75	96.15	-1,385.90	1,713.30	1,326.49	1,218.97	107.52	12.338	
11,000.00	9,110.00	11,172.75	9,255.00	55.74	56.61	96.15	-1,385.98	1,813.30	1,326.53	1,215.30	111.23	11.926	
11,100.00	9,110.00	11,272.75	9,255.00	57.63	58.50	96.14	-1,386.07	1,913.30	1,326.56	1,211.56	115.00	11.535	
11,200.00	9,110.00	11,372.75	9,255.00	59.55	60.42	96.14	-1,386.15	2,013.30	1,326.60	1,207.77	118.83	11.164	
11,300.00	9,110.00	11,472.75	9,255.00	61.50	62.36	96.14	-1,386.24	2,113.30	1,326.64	1,203.92	122.72	10.811	
11,400.00	9,110.00	11,572.75	9,255.00	63.47	64.33	96.14	-1,386.32	2,213.30	1,326.68	1,200.03	126.65	10.475	
11,500.00	9,110.00	11,672.75	9,255.00	65.46	66.33	96.14	-1,386.41	2,313.30	1,326.71	1,196.09	130.62	10.157	
11,600.00	9,110.00	11,772.75	9,255.00	67.47	68.34	96.14	-1,386.49	2,413.30	1,326.75	1,192.11	134.64	9.854	
11,700.00	9,110.00	11,872.75	9,255.00	69.50	70.37	96.14	-1,386.58	2,513.30	1,326.79	1,188.10	138.69	9.567	
11,800.00	9,110.00	11,972.75	9,255.00	71.55	72.41	96.14	-1,386.66	2,613.30	1,326.82	1,184.05	142.77	9.293	
11,900.00	9,110.00	12,072.75	9,255.00	73.61	74.48	96.14	-1,386.75	2,713.30	1,326.86	1,179.98	146.88	9.033	
12,000.00	9,110.00	12,172.75	9,255.00	75.69	76.55	96.14	-1,386.83	2,813.30	1,326.90	1,175.87	151.03	8.786	
12,100.00	9,110.00	12,272.75	9,255.00	77.78	78.64	96.14	-1,386.92	2,913.30	1,326.94	1,171.74	155.19	8.550	
12,200.00	9,110.00	12,372.75	9,255.00	79.88	80.74	96.14	-1,387.00	3,013.30	1,326.97	1,167.59	159.38	8.326	
12,300.00	9,110.00	12,472.75	9,255.00	82.00	82.86	96.14	-1,387.09	3,113.30	1,327.01	1,163.42	163.60	8.112	
12,400.00	9,110.00	12,572.75	9,255.00	84.12	84.98	96.14	-1,387.17	3,213.30	1,327.05	1,159.22	167.83	7.907	
12,500.00	9,110.00	12,672.75	9,255.00	86.26	87.11	96.14	-1,387.26	3,313.30	1,327.09	1,155.01	172.08	7.712	
12,600.00	9,110.00	12,772.75	9,255.00	88.40	89.25	96.14	-1,387.34	3,413.30	1,327.12	1,150.78	176.35	7.526	
12,700.00	9,110.00	12,872.75	9,255.00	90.55	91.40	96.14	-1,387.43	3,513.30	1,327.16	1,146.53	180.63	7.347	
12,800.00	9,110.00	12,972.75	9,255.00	92.71	93.56	96.14	-1,387.51	3,613.30	1,327.20	1,142.27	184.93	7.177	
12,900.00	9,110.00	13,072.75	9,255.00	94.87	95.72	96.14	-1,387.60	3,713.30	1,327.24	1,137.99	189.25	7.013	
13,000.00	9,110.00	13,172.75	9,255.00	97.04	97.89	96.14	-1,387.68	3,813.30	1,327.27	1,133.70	193.57	6.857	
13,100.00	9,110.00	13,272.75	9,255.00	99.22	100.06	96.14	-1,387.77	3,913.30	1,327.31	1,129.40	197.91	6.707	
13,200.00	9,110.00	13,372.75	9,255.00	101.40	102.25	96.14	-1,387.86	4,013.30	1,327.35	1,125.09	202.26	6.563	
13,300.00	9,110.00	13,472.75	9,255.00	103.59	104.43	96.14	-1,387.94	4,113.30	1,327.38	1,120.76	206.62	6.424	
13,400.00	9,110.00	13,572.75	9,255.00	105.79	106.63	96.14	-1,388.03	4,213.30	1,327.42	1,116.43	210.99	6.291	
13,500.00	9,110.00	13,672.75	9,255.00	107.99	108.82	96.14	-1,388.11	4,313.29	1,327.46	1,112.09	215.37	6.164	
13,600.00	9,110.00	13,772.75	9,255.00	110.19	111.03	96.14	-1,388.20	4,413.29	1,327.50	1,107.74	219.76	6.041	
13,700.00	9,110.00	13,872.75	9,255.00	112.40	113.23	96.14	-1,388.28	4,513.29	1,327.53	1,103.38	224.16	5.922	
13,800.00	9,110.00	13,972.75	9,255.00	114.61	115.44	96.14	-1,388.37	4,613.29	1,327.57	1,099.01	228.56	5.808	
13,900.00	9,110.00	14,072.75	9,255.00	116.83	117.66	96.14	-1,388.45	4,713.29	1,327.61	1,094.64	232.97	5.699	
14,000.00	9,110.00	14,172.75	9,255.00	119.04	119.87	96.14	-1,388.54	4,813.29	1,327.65	1,090.26	237.39	5.593	
14,100.00	9,110.00	14,272.75	9,255.00	121.27	122.10	96.14	-1,388.62	4,913.29	1,327.68	1,085.87	241.82	5.490	
14,200.00	9,110.00	14,372.75	9,255.00	123.49	124.32	96.14	-1,388.71	5,013.29	1,327.72	1,081.47	246.25	5.392	
14,300.00	9,110.00	14,472.75	9,255.00	125.72	126.55	96.14	-1,388.79	5,113.29	1,327.76	1,077.07	250.69	5.297	
14,400.00	9,110.00	14,572.75	9,255.00	127.95	128.78	96.14	-1,388.88	5,213.29	1,327.80	1,072.67	255.13	5.204	
14,500.00	9,110.00	14,672.75	9,255.00	130.19	131.01	96.14	-1,388.96	5,313.29	1,327.83	1,068.26	259.58	5.115	
14,600.00	9,110.00	14,772.75	9,255.00	132.42	133.25	96.14	-1,389.05	5,413.29	1,327.87	1,063.84	264.03	5.029	
14,700.00	9,110.00	14,872.75	9,255.00	134.66	135.48	96.14	-1,389.13	5,513.29	1,327.91	1,059.42	268.49	4.946	
14,800.00	9,110.00	14,972.75	9,255.00	136.90	137.72	96.14	-1,389.22	5,613.29	1,327.94	1,054.99	272.95	4.865	
14,900.00	9,110.00	15,072.75	9,255.00	139.15	139.97	96.14	-1,389.30	5,713.29	1,327.98	1,050.56	277.42	4.787	
15,000.00	9,110.00	15,172.75	9,255.00	141.39	142.21	96.14	-1,389.39	5,813.29	1,328.02	1,046.13	281.89	4.711	
15,100.00	9,110.00	15,272.75	9,255.00	143.64	144.46	96.14	-1,389.47	5,913.29	1,328.06	1,041.69	286.37	4.638	
15,200.00	9,110.00	15,372.75	9,255.00	145.89	146.70	96.14	-1,389.56	6,013.29	1,328.09	1,037.25	290.84	4.566	
15,300.00	9,110.00	15,472.75	9,255.00	148.14	148.96	96.14	-1,389.64	6,113.29	1,328.13	1,032.80	295.33	4.497	
15,400.00	9,110.00	15,572.75	9,255.00	150.39	151.21	96.14	-1,389.73	6,213.29	1,328.17	1,028.36	299.81	4.430	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design Leatherneck 3029 Fed Com - #206H - OH - Prelim B													Offset Site Error
Survey Program: 0-MWD-HDGM													Offset Well Error
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,500.00	9,110.00	15,672.75	9,255.00	152.65	153.46	96.14	-1,389.81	6,313.29	1,328.21	1,023.90	304.30	4.365	
15,600.00	9,110.00	15,772.75	9,255.00	154.91	155.72	96.14	-1,389.90	6,413.29	1,328.24	1,019.45	308.79	4.301	
15,700.00	9,110.00	15,872.75	9,255.00	157.16	157.97	96.14	-1,389.98	6,513.29	1,328.28	1,014.99	313.29	4.240	
15,800.00	9,110.00	15,972.75	9,255.00	159.42	160.23	96.14	-1,390.07	6,613.29	1,328.32	1,010.53	317.79	4.180	
15,900.00	9,110.00	16,072.75	9,255.00	161.68	162.49	96.14	-1,390.15	6,713.29	1,328.36	1,006.07	322.29	4.122	
16,000.00	9,110.00	16,172.75	9,255.00	163.95	164.75	96.14	-1,390.24	6,813.29	1,328.39	1,001.60	326.79	4.065	
16,100.00	9,110.00	16,272.75	9,255.00	166.21	167.01	96.14	-1,390.32	6,913.29	1,328.43	997.13	331.30	4.010	
16,200.00	9,110.00	16,372.75	9,255.00	168.47	169.28	96.14	-1,390.41	7,013.29	1,328.47	992.66	335.81	3.956	
16,300.00	9,110.00	16,472.75	9,255.00	170.74	171.54	96.14	-1,390.49	7,113.29	1,328.50	988.19	340.32	3.904	
16,400.00	9,110.00	16,572.75	9,255.00	173.01	173.81	96.14	-1,390.58	7,213.29	1,328.54	983.71	344.83	3.853	
16,500.00	9,110.00	16,672.75	9,255.00	175.28	176.08	96.14	-1,390.67	7,313.29	1,328.58	979.23	349.35	3.803	
16,600.00	9,110.00	16,772.75	9,255.00	177.54	178.34	96.14	-1,390.75	7,413.29	1,328.62	974.75	353.86	3.755	
16,700.00	9,110.00	16,872.75	9,255.00	179.82	180.61	96.14	-1,390.84	7,513.29	1,328.65	970.27	358.38	3.707	
16,800.00	9,110.00	16,972.75	9,255.00	182.09	182.88	96.14	-1,390.92	7,613.29	1,328.69	965.79	362.90	3.661	
16,900.00	9,110.00	17,072.75	9,255.00	184.36	185.16	96.13	-1,391.01	7,713.29	1,328.73	961.30	367.43	3.616	
17,000.00	9,110.00	17,172.75	9,255.00	186.63	187.43	96.13	-1,391.09	7,813.29	1,328.77	956.81	371.95	3.572	
17,100.00	9,110.00	17,272.75	9,255.00	188.91	189.70	96.13	-1,391.18	7,913.29	1,328.80	952.32	376.48	3.530	
17,200.00	9,110.00	17,372.75	9,255.00	191.18	191.97	96.13	-1,391.26	8,013.29	1,328.84	947.83	381.01	3.488	
17,300.00	9,110.00	17,472.75	9,255.00	193.46	194.25	96.13	-1,391.35	8,113.29	1,328.88	943.34	385.54	3.447	
17,400.00	9,110.00	17,572.75	9,255.00	195.73	196.52	96.13	-1,391.43	8,213.29	1,328.92	938.85	390.07	3.407	
17,500.00	9,110.00	17,672.75	9,255.00	198.01	198.80	96.13	-1,391.52	8,313.29	1,328.95	934.35	394.60	3.368	
17,600.00	9,110.00	17,772.75	9,255.00	200.29	201.08	96.13	-1,391.60	8,413.29	1,328.99	929.85	399.14	3.330	
17,700.00	9,110.00	17,872.75	9,255.00	202.56	203.36	96.13	-1,391.69	8,513.29	1,329.03	925.36	403.67	3.292	
17,800.00	9,110.00	17,972.75	9,255.00	204.84	205.63	96.13	-1,391.77	8,613.29	1,329.06	920.86	408.21	3.256	
17,900.00	9,110.00	18,072.75	9,255.00	207.12	207.91	96.13	-1,391.86	8,713.29	1,329.10	916.36	412.75	3.220	
18,000.00	9,110.00	18,172.75	9,255.00	209.40	210.19	96.13	-1,391.94	8,813.29	1,329.14	911.85	417.29	3.185	
18,100.00	9,110.00	18,272.75	9,255.00	211.69	212.47	96.13	-1,392.03	8,913.29	1,329.18	907.35	421.83	3.151	
18,200.00	9,110.00	18,372.75	9,255.00	213.97	214.75	96.13	-1,392.11	9,013.29	1,329.21	902.85	426.37	3.118	
18,300.00	9,110.00	18,472.75	9,255.00	216.25	217.04	96.13	-1,392.20	9,113.29	1,329.25	898.34	430.91	3.085	
18,400.00	9,110.00	18,572.75	9,255.00	218.53	219.32	96.13	-1,392.28	9,213.29	1,329.29	893.83	435.46	3.053	
18,500.00	9,110.00	18,672.75	9,255.00	220.82	221.60	96.13	-1,392.37	9,313.29	1,329.33	889.33	440.00	3.021	
18,600.00	9,110.00	18,772.75	9,255.00	223.10	223.88	96.13	-1,392.45	9,413.29	1,329.36	884.82	444.55	2.990	
18,700.00	9,110.00	18,872.75	9,255.00	225.38	226.17	96.13	-1,392.54	9,513.29	1,329.40	880.31	449.09	2.960	
18,800.00	9,110.00	18,972.75	9,255.00	227.67	228.45	96.13	-1,392.62	9,613.29	1,329.44	875.80	453.64	2.931	
18,900.00	9,110.00	19,072.75	9,255.00	229.95	230.74	96.13	-1,392.71	9,713.29	1,329.48	871.28	458.19	2.902	
19,000.00	9,110.00	19,172.75	9,255.00	232.24	233.02	96.13	-1,392.79	9,813.29	1,329.51	866.77	462.74	2.873	
19,100.00	9,110.00	19,272.75	9,255.00	234.53	235.31	96.13	-1,392.88	9,913.29	1,329.55	862.26	467.29	2.845	
19,200.00	9,110.00	19,372.75	9,255.00	236.81	237.59	96.13	-1,392.96	10,013.29	1,329.59	857.74	471.84	2.818	
19,237.58	9,110.00	19,410.33	9,255.00	237.36	238.45	96.13	-1,393.00	10,050.87	1,329.60	856.36	473.24	2.810 SF	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #242H - OH - Prelim B											Offset Site Error	0.00 usft
Survey Program: 0-MWD-HDGM											Offset Well Error	0.00 usft
Reference	Offset	Semi-Major Axis		Distance		Minimum		Separation		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
0.00	0.00	1.00	1.00	0.00	0.00	-168.99	-560.00	-109.00	570.51			
100.00	100.00	101.00	101.00	0.13	0.13	-168.99	-560.00	-109.00	570.51	570.25	0.26	2,195.177
200.00	200.00	201.00	201.00	0.49	0.49	-168.99	-560.00	-109.00	570.51	569.53	0.98	584.039
300.00	300.00	301.00	301.00	0.85	0.85	-168.99	-560.00	-109.00	570.51	568.82	1.69	336.826
400.00	400.00	401.00	401.00	1.20	1.21	-168.99	-560.00	-109.00	570.51	568.10	2.41	236.655
500.00	500.00	501.00	501.00	1.56	1.57	-168.99	-560.00	-109.00	570.51	567.38	3.13	182.407
600.00	600.00	601.00	601.00	1.92	1.92	-168.99	-560.00	-109.00	570.51	566.66	3.84	148.392
700.00	700.00	701.00	701.00	2.28	2.28	-168.99	-560.00	-109.00	570.51	565.95	4.56	125.069
800.00	800.00	801.00	801.00	2.64	2.64	-168.99	-560.00	-109.00	570.51	565.23	5.28	108.082
900.00	900.00	901.00	901.00	3.00	3.00	-168.99	-560.00	-109.00	570.51	564.51	6.00	95.157
1,000.00	1,000.00	1,001.00	1,001.00	3.35	3.36	-168.99	-560.00	-109.00	570.51	563.80	6.71	84.994 CC
1,100.00	1,099.98	1,100.98	1,100.98	3.71	3.72	-97.47	-560.00	-109.00	570.73	563.31	7.42	76.880
1,200.00	1,199.84	1,200.84	1,200.84	4.06	4.07	-97.98	-560.00	-109.00	571.44	563.31	8.13	70.274 ES
1,300.00	1,299.45	1,300.45	1,300.45	4.41	4.43	-98.81	-560.00	-109.00	572.72	563.87	8.84	64.760
1,400.00	1,398.88	1,400.12	1,399.88	4.77	4.79	-99.86	-560.00	-109.00	574.46	564.90	9.56	60.084
1,500.00	1,498.31	1,499.31	1,499.31	5.14	5.14	-100.90	-560.00	-109.00	576.39	566.11	10.28	56.067
1,600.00	1,597.74	1,600.94	1,600.92	5.50	5.50	-102.13	-560.00	-107.22	578.33	567.33	11.00	52.560
1,700.00	1,697.16	1,700.07	1,699.85	5.87	5.84	-103.48	-560.00	-103.77	580.38	568.66	11.71	49.551
1,800.00	1,796.59	1,801.06	1,798.80	6.24	6.19	-104.83	-560.00	-100.31	582.75	570.32	12.43	46.873
1,900.00	1,896.02	1,902.04	1,897.76	6.62	6.54	-106.17	-560.00	-96.86	585.45	572.30	13.16	44.503
2,000.00	1,995.45	2,003.03	1,996.71	6.99	6.89	-107.49	-560.00	-93.40	588.48	574.60	13.88	42.395
2,100.00	2,094.87	2,104.02	2,095.66	7.37	7.25	-108.80	-560.00	-89.95	591.82	577.21	14.61	40.512
2,200.00	2,194.30	2,205.00	2,194.62	7.75	7.60	-110.10	-560.00	-86.49	595.47	580.13	15.34	38.825
2,300.00	2,293.73	2,305.99	2,293.57	8.13	7.96	-111.38	-560.00	-83.03	599.43	583.36	16.07	37.307
2,400.00	2,393.16	2,406.98	2,392.52	8.50	8.31	-112.64	-560.00	-79.58	603.68	586.89	16.80	35.937
2,500.00	2,492.59	2,507.96	2,491.47	8.88	8.67	-113.88	-560.00	-76.12	608.23	590.70	17.53	34.696
2,600.00	2,592.01	2,608.95	2,590.43	9.26	9.03	-115.11	-560.00	-72.67	613.07	594.81	18.26	33.570
2,700.00	2,691.44	2,709.94	2,689.38	9.64	9.38	-116.31	-560.00	-69.21	618.19	599.19	18.99	32.545
2,800.00	2,790.87	2,789.08	2,788.33	10.03	9.67	-117.50	-560.00	-65.76	623.58	603.93	19.65	31.734
2,900.00	2,890.30	2,888.09	2,887.29	10.41	10.02	-118.66	-560.00	-62.30	629.23	608.86	20.38	30.882
3,000.00	2,989.72	2,987.10	2,986.24	10.79	10.37	-119.81	-560.00	-58.85	635.15	614.04	21.10	30.100
3,100.00	3,089.15	3,079.30	3,078.40	11.17	10.69	-120.76	-560.62	-56.50	641.76	619.97	21.79	29.453
3,200.00	3,188.58	3,170.73	3,169.80	11.56	11.00	-121.46	-562.93	-56.53	649.76	627.30	22.46	28.926
3,300.00	3,288.01	3,262.36	3,261.30	11.94	11.30	-121.90	-566.94	-58.94	659.03	635.90	23.13	28.493
3,400.00	3,387.43	3,360.65	3,352.35	12.32	11.63	-122.10	-572.63	-63.72	669.50	645.68	23.81	28.114
3,500.00	3,486.86	3,453.09	3,451.25	12.70	11.94	-122.17	-579.80	-70.30	680.59	656.10	24.50	27.783
3,600.00	3,586.29	3,552.47	3,550.15	13.09	12.27	-122.25	-586.97	-76.88	691.69	666.49	25.21	27.442
3,700.00	3,685.72	3,651.85	3,649.05	13.47	12.60	-122.32	-594.15	-83.45	702.79	676.87	25.92	27.116
3,800.00	3,785.15	3,751.23	3,747.95	13.86	12.93	-122.38	-601.32	-90.03	713.89	687.26	26.63	26.806
3,900.00	3,884.60	3,850.62	3,846.87	14.24	13.27	-122.50	-608.50	-96.61	724.83	697.49	27.35	26.505
4,000.00	3,984.31	3,950.16	3,945.93	14.61	13.61	-122.52	-615.68	-103.20	734.24	706.18	28.06	26.170
4,100.00	4,084.23	4,049.75	4,045.04	14.97	13.95	-122.27	-622.87	-109.80	741.80	713.04	28.76	25.794
4,200.00	4,184.22	4,149.30	4,144.11	15.31	14.30	-122.55	-630.05	-116.39	747.65	718.21	29.45	25.388
4,300.00	4,284.22	4,248.82	4,243.15	15.65	14.65	-122.97	-637.24	-122.97	753.20	723.06	30.14	24.991
4,400.00	4,384.22	4,348.33	4,342.19	15.99	15.00	-122.77	-644.42	-129.56	758.83	728.00	30.83	24.613
4,500.00	4,484.22	4,447.85	4,441.23	16.33	15.35	-122.37	-651.61	-136.15	764.54	733.02	31.52	24.253
4,600.00	4,584.22	4,547.37	4,540.27	16.67	15.71	-122.96	-658.79	-142.74	770.33	738.12	32.22	23.911
4,700.00	4,684.22	4,646.89	4,639.31	17.02	16.06	-123.54	-665.97	-149.33	776.21	743.30	32.91	23.584
4,800.00	4,784.22	4,746.41	4,738.35	17.36	16.42	-124.11	-673.16	-155.91	782.16	748.55	33.61	23.272
4,900.00	4,884.22	4,845.93	4,837.39	17.70	16.78	-124.67	-680.34	-162.50	788.19	753.88	34.31	22.974
5,000.00	4,984.22	4,945.45	4,936.43	18.05	17.14	-125.23	-687.52	-169.09	794.30	759.29	35.01	22.689
5,100.00	5,084.22	5,044.97	5,035.47	18.39	17.50	-125.77	-694.71	-175.68	800.48	764.77	35.71	22.418

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #242H - OH - Prelim B													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD-HDGM													Offset Well Error: 0.00 usft	
Reference		Offset		Semi-Major Axis		Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	Offset Wellbore Centre E/W (usft)	Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)				
5,200.00	5,184.22	5,144.49	5,134.52	18.74	17.86	172.31	-701.89	-182.27	806.73	770.32	36.41	22.157		
5,300.00	5,284.22	5,244.01	5,233.56	19.08	18.22	172.84	-709.08	-188.85	813.05	775.94	37.11	21.909		
5,400.00	5,384.22	5,343.53	5,332.60	19.43	18.58	173.36	-716.26	-195.44	819.44	781.62	37.81	21.670		
5,500.00	5,484.22	5,443.05	5,431.64	19.77	18.95	173.87	-723.44	-202.03	825.89	787.37	38.52	21.442		
5,600.00	5,584.22	5,542.57	5,530.68	20.12	19.31	174.38	-730.63	-208.62	832.41	793.19	39.22	21.223		
5,700.00	5,684.22	5,642.08	5,629.72	20.47	19.68	174.87	-737.81	-215.21	839.00	799.07	39.93	21.013		
5,800.00	5,784.22	5,741.60	5,728.76	20.82	20.04	175.36	-744.99	-221.79	845.64	805.01	40.63	20.812		
5,900.00	5,884.22	5,841.12	5,827.80	21.16	20.41	175.84	-752.18	-228.38	852.35	811.01	41.34	20.619		
6,000.00	5,984.22	5,940.64	5,926.84	21.51	20.78	176.32	-759.36	-234.97	859.12	817.07	42.05	20.433		
6,100.00	6,084.22	6,040.16	6,025.88	21.86	21.14	176.79	-766.54	-241.56	865.94	823.19	42.75	20.255		
6,200.00	6,184.22	6,139.68	6,124.92	22.21	21.51	177.24	-773.73	-248.15	872.82	829.36	43.46	20.083		
6,300.00	6,284.22	6,239.20	6,223.96	22.56	21.88	177.70	-780.91	-254.73	879.76	835.59	44.17	19.918		
6,400.00	6,384.22	6,338.72	6,323.00	22.91	22.25	178.14	-788.10	-261.32	886.75	841.87	44.88	19.760		
6,500.00	6,484.22	6,438.24	6,422.04	23.26	22.62	178.58	-795.28	-267.91	893.79	848.20	45.59	19.607		
6,600.00	6,584.22	6,537.76	6,521.09	23.61	22.99	179.01	-802.46	-274.50	900.88	854.59	46.29	19.460		
6,700.00	6,684.22	6,637.28	6,620.13	23.96	23.36	179.44	-809.65	-281.09	908.03	861.02	47.00	19.318		
6,800.00	6,784.22	6,736.80	6,719.17	24.31	23.73	179.85	-816.83	-287.67	915.22	867.51	47.71	19.181		
6,900.00	6,884.22	6,867.37	6,849.36	24.66	24.21	-179.73	-824.08	-294.32	920.79	872.20	48.59	18.949		
7,000.00	6,984.22	6,998.66	6,980.58	25.01	24.68	-179.57	-826.95	-296.96	922.99	873.57	49.42	18.675		
7,100.00	7,084.22	7,103.30	7,085.22	25.36	25.03	-179.57	-827.00	-297.00	923.03	872.90	50.13	18.412		
7,200.00	7,184.22	7,203.30	7,185.22	25.71	25.37	-179.57	-827.00	-297.00	923.03	872.20	50.82	18.161		
7,300.00	7,284.22	7,303.30	7,285.22	26.07	25.71	-179.57	-827.00	-297.00	923.03	871.51	51.52	17.916		
7,400.00	7,384.22	7,403.30	7,385.22	26.42	26.05	-179.57	-827.00	-297.00	923.03	870.81	52.21	17.678		
7,500.00	7,484.22	7,503.30	7,485.22	26.77	26.39	-179.57	-827.00	-297.00	923.03	870.12	52.91	17.445		
7,600.00	7,584.22	7,603.30	7,585.22	27.12	26.73	-179.57	-827.00	-297.00	923.03	869.42	53.61	17.219		
7,700.00	7,684.22	7,703.30	7,685.22	27.48	27.07	-179.57	-827.00	-297.00	923.03	868.72	54.30	16.998		
7,800.00	7,784.22	7,803.30	7,785.22	27.83	27.41	-179.57	-827.00	-297.00	923.03	868.03	55.00	16.782		
7,900.00	7,884.22	7,903.30	7,885.22	28.18	27.75	-179.57	-827.00	-297.00	923.03	867.33	55.70	16.572		
8,000.00	7,984.22	8,003.30	7,985.22	28.53	28.09	-179.57	-827.00	-297.00	923.03	866.63	56.40	16.367		
8,100.00	8,084.22	8,103.30	8,085.22	28.89	28.43	-179.57	-827.00	-297.00	923.03	865.93	57.10	16.166		
8,200.00	8,184.22	8,203.30	8,185.22	29.24	28.78	-179.57	-827.00	-297.00	923.03	865.23	57.79	15.971		
8,300.00	8,284.22	8,303.30	8,285.22	29.59	29.12	-179.57	-827.00	-297.00	923.03	864.53	58.49	15.780		
8,400.00	8,384.22	8,403.30	8,385.22	29.95	29.46	-179.57	-827.00	-297.00	923.03	863.83	59.19	15.593		
8,500.00	8,484.22	8,503.30	8,485.22	30.30	29.81	-179.57	-827.00	-297.00	923.03	863.13	59.90	15.411		
8,600.00	8,584.17	8,603.25	8,585.17	30.65	30.15	78.49	-827.00	-297.00	922.64	862.05	60.59	15.228		
8,700.00	8,682.61	8,701.69	8,683.61	30.96	30.49	79.82	-827.00	-297.00	919.41	858.17	61.24	15.014		
8,800.00	8,776.63	8,804.29	8,777.63	31.24	30.84	82.32	-827.00	-297.00	913.86	851.98	61.88	14.769		
8,900.00	8,863.36	8,882.44	8,864.36	31.52	31.11	85.60	-827.00	-297.00	907.91	845.50	62.41	14.547		
9,000.00	8,940.19	8,959.27	8,941.19	31.81	31.38	89.06	-827.00	-297.00	904.20	841.26	62.95	14.365		
9,028.85	8,960.16	8,979.25	8,961.16	31.90	31.45	90.00	-827.00	-297.00	903.96	840.86	63.10	14.326		
9,100.00	9,004.76	9,023.84	9,005.76	32.12	31.60	92.03	-827.00	-297.00	905.66	842.20	63.46	14.271		
9,200.00	9,055.12	9,074.20	9,056.12	32.51	31.78	93.83	-827.00	-297.00	914.99	851.02	63.97	14.303		
9,300.00	9,089.74	9,108.82	9,090.74	32.98	31.90	93.92	-827.00	-297.00	934.09	869.61	64.48	14.487		
9,400.00	9,107.57	9,126.65	9,108.57	33.55	31.96	91.95	-827.00	-297.00	963.55	898.60	64.95	14.835		
9,500.00	9,110.00	9,129.08	9,111.00	34.22	31.97	90.00	-827.00	-297.00	1,003.06	937.69	65.37	15.345		
9,600.00	9,110.00	9,129.08	9,111.00	35.02	31.97	90.00	-827.00	-297.00	1,054.47	988.69	65.78	16.030		
9,700.00	9,110.00	9,129.08	9,111.00	35.95	31.97	90.00	-827.00	-297.00	1,116.57	1,050.41	66.17	16.875		
9,800.00	9,110.00	10,643.22	9,960.00	37.00	39.26	138.11	-827.44	614.06	1,140.63	1,083.09	57.54	19.823		
9,898.43	9,110.00	10,741.64	9,960.00	38.13	40.36	138.16	-827.49	712.47	1,139.67	1,080.66	59.01	19.314		
9,900.00	9,110.00	10,743.21	9,960.00	38.15	40.37	138.13	-827.49	714.05	1,140.10	1,081.05	59.05	19.307		
10,000.00	9,110.00	10,843.21	9,960.00	39.40	41.59	138.13	-827.54	814.05	1,140.10	1,079.38	60.72	18.776		
10,100.00	9,110.00	10,943.21	9,960.00	40.74	42.90	138.13	-827.59	914.05	1,140.10	1,077.58	62.52	18.236		

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #242H - OH - Prelim B													Offset Site Error:
Survey Program: 0-MWD-HDGM													Offset Well Error:
Reference	Offset	Semi Major Axis		Distance		Warning		Minimum		Separation		Factor	
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	Warning
10,200.00	9,110.00	11,043.21	9,960.00	42.17	44.29	138.13	-827.63	1,014.05	1,140.10	1,075.66	64.44	17.693	
10,300.00	9,110.00	11,143.21	9,960.00	43.67	45.75	138.13	-827.68	1,114.05	1,140.10	1,073.63	66.47	17.153	
10,400.00	9,110.00	11,243.21	9,960.00	45.24	47.28	138.13	-827.73	1,214.05	1,140.10	1,071.50	68.59	16.621	
10,500.00	9,110.00	11,343.21	9,960.00	46.87	48.87	138.13	-827.78	1,314.05	1,140.10	1,069.29	70.81	16.100	
10,600.00	9,110.00	11,443.21	9,960.00	48.55	50.52	138.13	-827.83	1,414.05	1,140.10	1,066.99	73.11	15.594	
10,700.00	9,110.00	11,543.21	9,960.00	50.29	52.21	138.13	-827.87	1,514.05	1,140.10	1,064.62	75.48	15.104	
10,800.00	9,110.00	11,643.21	9,960.00	52.07	53.96	138.13	-827.92	1,614.05	1,140.10	1,062.17	77.93	14.630	
10,900.00	9,110.00	11,743.21	9,960.00	53.89	55.74	138.13	-827.97	1,714.05	1,140.10	1,059.67	80.43	14.175	
11,000.00	9,110.00	11,843.21	9,960.00	55.74	57.56	138.13	-828.02	1,814.05	1,140.10	1,057.11	82.99	13.738	
11,100.00	9,110.00	11,943.21	9,960.00	57.63	59.42	138.13	-828.07	1,914.05	1,140.10	1,054.50	85.60	13.319	
11,200.00	9,110.00	12,043.21	9,960.00	59.55	61.30	138.13	-828.12	2,014.05	1,140.10	1,051.85	88.25	12.918	
11,300.00	9,110.00	12,143.21	9,960.00	61.50	63.21	138.13	-828.16	2,114.05	1,140.10	1,049.15	90.95	12.535	
11,400.00	9,110.00	12,243.21	9,960.00	63.47	65.15	138.13	-828.21	2,214.05	1,140.10	1,046.41	93.69	12.169	
11,500.00	9,110.00	12,343.21	9,960.00	65.46	67.12	138.13	-828.26	2,314.05	1,140.10	1,043.64	96.46	11.819	
11,600.00	9,110.00	12,443.21	9,960.00	67.47	69.10	138.13	-828.31	2,414.05	1,140.11	1,040.84	99.27	11.485	
11,700.00	9,110.00	12,543.21	9,960.00	69.50	71.10	138.13	-828.36	2,514.05	1,140.11	1,038.00	102.10	11.166	
11,800.00	9,110.00	12,643.21	9,960.00	71.55	73.13	138.13	-828.41	2,614.05	1,140.11	1,035.14	104.97	10.862	
11,900.00	9,110.00	12,743.21	9,960.00	73.61	75.16	138.13	-828.45	2,714.05	1,140.11	1,032.25	107.85	10.571	
12,000.00	9,110.00	12,843.21	9,960.00	75.69	77.22	138.13	-828.50	2,814.05	1,140.11	1,029.34	110.77	10.293	
12,100.00	9,110.00	12,943.21	9,960.00	77.78	79.28	138.13	-828.55	2,914.05	1,140.11	1,026.41	113.70	10.028	
12,200.00	9,110.00	13,043.21	9,960.00	79.88	81.36	138.13	-828.60	3,014.05	1,140.11	1,023.46	116.65	9.774	
12,300.00	9,110.00	13,143.21	9,960.00	82.00	83.46	138.13	-828.65	3,114.05	1,140.11	1,020.49	119.62	9.531	
12,400.00	9,110.00	13,243.21	9,960.00	84.12	85.56	138.13	-828.70	3,214.05	1,140.11	1,017.50	122.61	9.299	
12,500.00	9,110.00	13,343.21	9,960.00	86.26	87.67	138.13	-828.74	3,314.05	1,140.11	1,014.50	125.61	9.076	
12,600.00	9,110.00	13,443.21	9,960.00	88.40	89.80	138.13	-828.79	3,414.05	1,140.11	1,011.48	128.63	8.864	
12,700.00	9,110.00	13,543.21	9,960.00	90.55	91.93	138.13	-828.84	3,514.05	1,140.11	1,008.45	131.66	8.659	
12,800.00	9,110.00	13,643.21	9,960.00	92.71	94.07	138.13	-828.89	3,614.05	1,140.11	1,005.41	134.71	8.464	
12,900.00	9,110.00	13,743.21	9,960.00	94.87	96.22	138.13	-828.94	3,714.05	1,140.11	1,002.35	137.76	8.276	
13,000.00	9,110.00	13,843.21	9,960.00	97.04	98.37	138.13	-828.99	3,814.05	1,140.11	999.28	140.83	8.096	
13,100.00	9,110.00	13,943.21	9,960.00	99.22	100.54	138.13	-829.03	3,914.05	1,140.11	996.20	143.91	7.923	
13,200.00	9,110.00	14,043.21	9,960.00	101.40	102.71	138.13	-829.08	4,014.05	1,140.11	993.12	146.99	7.756	
13,300.00	9,110.00	14,143.21	9,960.00	103.59	104.88	138.13	-829.13	4,114.05	1,140.11	990.02	150.09	7.596	
13,400.00	9,110.00	14,243.21	9,960.00	105.79	107.06	138.13	-829.18	4,214.05	1,140.11	986.92	153.20	7.442	
13,500.00	9,110.00	14,343.21	9,960.00	107.99	109.25	138.13	-829.23	4,314.05	1,140.11	983.80	156.31	7.294	
13,600.00	9,110.00	14,443.21	9,960.00	110.19	111.44	138.13	-829.28	4,414.05	1,140.11	980.68	159.43	7.151	
13,700.00	9,110.00	14,543.21	9,960.00	112.40	113.63	138.13	-829.32	4,514.05	1,140.11	977.55	162.56	7.013	
13,800.00	9,110.00	14,643.21	9,960.00	114.61	115.83	138.13	-829.37	4,614.05	1,140.12	974.42	165.70	6.881	
13,900.00	9,110.00	14,743.21	9,960.00	116.83	118.04	138.13	-829.42	4,714.05	1,140.12	971.28	168.84	6.753	
14,000.00	9,110.00	14,843.21	9,960.00	119.04	120.24	138.13	-829.47	4,814.05	1,140.12	968.13	171.99	6.629	
14,100.00	9,110.00	14,943.21	9,960.00	121.27	122.46	138.13	-829.52	4,914.05	1,140.12	964.98	175.14	6.510	
14,200.00	9,110.00	15,043.21	9,960.00	123.49	124.67	138.13	-829.57	5,014.05	1,140.12	961.82	178.30	6.394	
14,300.00	9,110.00	15,143.21	9,960.00	125.72	126.89	138.13	-829.61	5,114.05	1,140.12	958.66	181.46	6.283	
14,400.00	9,110.00	15,243.21	9,960.00	127.95	129.11	138.13	-829.66	5,214.05	1,140.12	955.49	184.63	6.175	
14,500.00	9,110.00	15,343.21	9,960.00	130.19	131.34	138.13	-829.71	5,314.05	1,140.12	952.31	187.80	6.071	
14,600.00	9,110.00	15,443.21	9,960.00	132.42	133.56	138.13	-829.76	5,414.05	1,140.12	949.14	190.98	5.970	
14,700.00	9,110.00	15,543.21	9,960.00	134.66	135.79	138.13	-829.81	5,514.05	1,140.12	945.96	194.16	5.872	
14,800.00	9,110.00	15,643.21	9,960.00	136.90	138.03	138.13	-829.86	5,614.05	1,140.12	942.77	197.35	5.777	
14,900.00	9,110.00	15,743.21	9,960.00	139.15	140.26	138.13	-829.90	5,714.05	1,140.12	939.58	200.54	5.685	
15,000.00	9,110.00	15,843.21	9,960.00	141.39	142.50	138.13	-829.95	5,814.05	1,140.12	936.39	203.73	5.596	
15,100.00	9,110.00	15,943.21	9,960.00	143.64	144.74	138.13	-830.00	5,914.05	1,140.12	933.19	206.93	5.510	
15,200.00	9,110.00	16,043.21	9,960.00	145.89	146.98	138.13	-830.05	6,014.05	1,140.12	929.99	210.13	5.426	
15,300.00	9,110.00	16,143.21	9,960.00	148.14	149.22	138.13	-830.10	6,114.05	1,140.12	926.79	213.33	5.344	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey/Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #242H - OH - Prelim.B													Offset Site Error:
Survey Program: 0-MWD+HDGM													Offset Well Error:
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
15,400.00	9,110.00	16,243.21	9,960.00	150.39	151.47	138.13	-830.15	6,214.05	1,140.12	923.58	216.54	5.265	
15,500.00	9,110.00	16,343.21	9,960.00	152.65	153.72	138.13	-830.19	6,314.05	1,140.12	920.37	219.75	5.188	
15,600.00	9,110.00	16,443.21	9,960.00	154.91	155.97	138.13	-830.24	6,414.05	1,140.12	917.16	222.96	5.114	
15,700.00	9,110.00	16,543.21	9,960.00	157.16	158.22	138.13	-830.29	6,514.05	1,140.12	913.95	226.18	5.041	
15,800.00	9,110.00	16,643.21	9,960.00	159.42	160.47	138.13	-830.34	6,614.05	1,140.12	910.73	229.39	4.970	
15,900.00	9,110.00	16,743.21	9,960.00	161.68	162.73	138.13	-830.39	6,714.05	1,140.13	907.51	232.61	4.901	
16,000.00	9,110.00	16,843.21	9,960.00	163.95	164.98	138.13	-830.44	6,814.05	1,140.13	904.29	235.83	4.834	
16,100.00	9,110.00	16,943.21	9,960.00	166.21	167.24	138.13	-830.48	6,914.05	1,140.13	901.07	239.06	4.769	
16,200.00	9,110.00	17,043.21	9,960.00	168.47	169.50	138.13	-830.53	7,014.05	1,140.13	897.84	242.28	4.706	
16,300.00	9,110.00	17,143.21	9,960.00	170.74	171.76	138.13	-830.58	7,114.05	1,140.13	894.61	245.51	4.644	
16,400.00	9,110.00	17,243.21	9,960.00	173.01	174.02	138.13	-830.63	7,214.05	1,140.13	891.38	248.74	4.584	
16,500.00	9,110.00	17,343.21	9,960.00	175.28	176.28	138.13	-830.68	7,314.05	1,140.13	888.15	251.97	4.525	
16,600.00	9,110.00	17,443.21	9,960.00	177.54	178.55	138.13	-830.73	7,414.05	1,140.13	884.92	255.21	4.467	
16,700.00	9,110.00	17,543.21	9,960.00	179.82	180.81	138.13	-830.77	7,514.05	1,140.13	881.68	258.44	4.412	
16,800.00	9,110.00	17,643.21	9,960.00	182.09	183.08	138.13	-830.82	7,614.05	1,140.13	878.45	261.68	4.357	
16,900.00	9,110.00	17,743.21	9,960.00	184.36	185.34	138.13	-830.87	7,714.05	1,140.13	875.21	264.92	4.304	
17,000.00	9,110.00	17,843.21	9,960.00	186.63	187.61	138.13	-830.92	7,814.05	1,140.13	871.97	268.16	4.252	
17,100.00	9,110.00	17,943.21	9,960.00	188.91	189.88	138.13	-830.97	7,914.05	1,140.13	868.73	271.40	4.201	
17,200.00	9,110.00	18,043.21	9,960.00	191.18	192.15	138.13	-831.02	8,014.05	1,140.13	865.48	274.65	4.151	
17,300.00	9,110.00	18,143.21	9,960.00	193.46	194.42	138.13	-831.06	8,114.05	1,140.13	862.24	277.89	4.103	
17,400.00	9,110.00	18,243.21	9,960.00	195.73	196.69	138.13	-831.11	8,214.05	1,140.13	858.99	281.14	4.055	
17,500.00	9,110.00	18,343.21	9,960.00	198.01	198.97	138.13	-831.16	8,314.05	1,140.13	855.75	284.39	4.009	
17,600.00	9,110.00	18,443.21	9,960.00	200.29	201.24	138.13	-831.21	8,414.05	1,140.13	852.50	287.64	3.964	
17,700.00	9,110.00	18,543.21	9,960.00	202.56	203.51	138.13	-831.26	8,514.05	1,140.13	849.25	290.89	3.920	
17,800.00	9,110.00	18,643.21	9,960.00	204.84	205.79	138.13	-831.30	8,614.05	1,140.13	846.00	294.14	3.876	
17,900.00	9,110.00	18,743.21	9,960.00	207.12	208.06	138.13	-831.35	8,714.05	1,140.13	842.75	297.39	3.834	
18,000.00	9,110.00	18,843.21	9,960.00	209.40	210.34	138.13	-831.40	8,814.05	1,140.14	839.49	300.64	3.792	
18,100.00	9,110.00	18,943.21	9,960.00	211.69	212.62	138.13	-831.45	8,914.05	1,140.14	836.24	303.90	3.752	
18,200.00	9,110.00	19,043.21	9,960.00	213.97	214.90	138.13	-831.50	9,014.05	1,140.14	832.98	307.15	3.712	
18,300.00	9,110.00	19,143.21	9,960.00	216.25	217.17	138.13	-831.55	9,114.05	1,140.14	829.73	310.41	3.673	
18,400.00	9,110.00	19,243.21	9,960.00	218.53	219.45	138.13	-831.59	9,214.05	1,140.14	826.47	313.67	3.635	
18,500.00	9,110.00	19,343.21	9,960.00	220.82	221.73	138.13	-831.64	9,314.05	1,140.14	823.21	316.93	3.597	
18,600.00	9,110.00	19,443.21	9,960.00	223.10	224.01	138.13	-831.69	9,414.05	1,140.14	819.95	320.19	3.561	
18,700.00	9,110.00	19,543.21	9,960.00	225.38	226.29	138.13	-831.74	9,514.05	1,140.14	816.69	323.45	3.525	
18,800.00	9,110.00	19,643.21	9,960.00	227.67	228.58	138.13	-831.79	9,614.05	1,140.14	813.43	326.71	3.490	
18,900.00	9,110.00	19,743.21	9,960.00	229.95	230.86	138.13	-831.84	9,714.05	1,140.14	810.17	329.97	3.455	
19,000.00	9,110.00	19,843.21	9,960.00	232.24	233.14	138.13	-831.88	9,814.05	1,140.14	806.91	333.23	3.421	
19,100.00	9,110.00	19,943.21	9,960.00	234.53	235.42	138.13	-831.93	9,914.05	1,140.14	803.64	336.50	3.388	
19,200.00	9,110.00	20,043.21	9,960.00	236.81	237.71	138.13	-831.98	10,014.05	1,140.14	800.38	339.76	3.356	
19,237.58	9,110.00	20,080.80	9,960.00	237.36	238.56	138.13	-832.00	10,051.63	1,140.14	799.39	340.75	3.346 SF	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com (Slot 1)
Site Error: 0.00 usft
Reference Well: #135H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #135H
TVD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
MD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #111H - OH - Prelim A												Offset Site Error	0.00 usft
Survey Program: 0-MWD-HDGM												Offset Well Error	0.00 usft
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	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-7.77	220.00	-30.00	222.04				
100.00	100.00	100.00	100.00	0.13	0.13	-7.77	220.00	-30.00	222.04	221.78	0.26	866.288	
200.00	200.00	200.00	200.00	0.49	0.49	-7.77	220.00	-30.00	222.04	221.06	0.97	228.139	
300.00	300.00	300.00	300.00	0.85	0.85	-7.77	220.00	-30.00	222.04	220.35	1.69	131.367	
400.00	400.00	400.00	400.00	1.20	1.20	-7.77	220.00	-30.00	222.04	219.63	2.41	92.241	
500.00	500.00	500.00	500.00	1.56	1.56	-7.77	220.00	-30.00	222.04	218.91	3.12	71.072	
600.00	600.00	600.00	600.00	1.92	1.92	-7.77	220.00	-30.00	222.04	218.20	3.84	57.806	
700.00	700.00	700.00	700.00	2.28	2.28	-7.77	220.00	-30.00	222.04	217.48	4.56	48.714	
800.00	800.00	800.00	800.00	2.64	2.64	-7.77	220.00	-30.00	222.04	216.76	5.27	42.093	
900.00	900.00	900.00	900.00	3.00	3.00	-7.77	220.00	-30.00	222.04	216.04	5.99	37.056	
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	-7.77	220.00	-30.00	222.04	215.33	6.71	33.096	
1,100.00	1,099.98	1,100.02	1,099.98	3.71	3.71	64.34	220.00	-30.00	221.27	213.85	7.42	29.820	
1,200.00	1,199.84	1,200.16	1,199.84	4.06	4.07	65.61	220.00	-30.00	219.06	210.93	8.13	26.946	
1,300.00	1,299.45	1,300.55	1,299.45	4.41	4.43	67.78	220.00	-30.00	215.60	206.75	8.84	24.377	
1,400.00	1,398.88	1,401.12	1,398.88	4.77	4.79	70.44	220.00	-30.00	211.77	202.21	9.56	22.142	
1,500.00	1,498.31	1,501.69	1,498.31	5.14	5.15	73.20	220.00	-30.00	208.42	198.13	10.29	20.257	
1,600.00	1,597.74	1,602.26	1,597.74	5.50	5.51	76.03	220.00	-30.00	205.57	194.55	11.02	18.661	
1,700.00	1,697.16	1,702.84	1,697.16	5.87	5.87	78.94	220.00	-30.00	203.24	191.50	11.75	17.302	
1,800.00	1,796.59	1,803.41	1,796.59	6.24	6.23	81.91	220.00	-30.00	201.45	188.98	12.48	16.143	
1,900.00	1,896.02	1,903.98	1,896.02	6.62	6.59	84.92	220.00	-30.00	200.22	187.01	13.21	15.153	
2,000.00	1,895.45	1,895.45	1,895.45	6.99	6.92	87.96	220.00	-30.00	199.55	185.64	13.92	14.340	
2,014.53	2,009.90	2,009.90	2,009.90	7.05	6.97	88.40	220.00	-30.00	199.50	185.48	14.02	14.228 CC, ES	
2,100.00	2,094.87	2,089.04	2,089.03	7.37	7.26	90.69	221.38	-30.03	200.84	186.22	14.62	13.736	
2,200.00	2,194.30	2,182.39	2,182.27	7.75	7.59	93.05	225.80	-30.14	205.61	190.30	15.31	13.426	
2,300.00	2,293.73	2,281.06	2,280.71	8.13	7.95	95.19	232.46	-30.29	212.57	196.53	16.04	13.253	
2,400.00	2,393.16	2,380.50	2,379.92	8.50	8.30	97.22	239.19	-30.45	219.84	203.07	16.77	13.108	
2,500.00	2,492.59	2,479.94	2,479.14	8.88	8.66	99.11	245.92	-30.61	227.36	209.86	17.50	12.990	
2,600.00	2,592.01	2,579.39	2,578.35	9.26	9.01	100.88	252.65	-30.77	235.12	216.89	18.24	12.894	
2,700.00	2,691.44	2,678.83	2,677.57	9.64	9.37	102.53	259.38	-30.93	243.09	224.12	18.97	12.816	
2,800.00	2,790.87	2,778.27	2,776.78	10.03	9.73	104.08	266.11	-31.08	251.24	231.54	19.70	12.754	
2,900.00	2,890.30	2,877.71	2,876.00	10.41	10.09	105.54	272.84	-31.24	259.57	239.14	20.43	12.704	
3,000.00	2,989.72	2,977.16	2,975.21	10.79	10.45	106.90	279.57	-31.40	268.05	246.89	21.16	12.665	
3,100.00	3,089.15	3,076.60	3,074.43	11.17	10.81	108.17	286.30	-31.56	276.68	254.78	21.90	12.635	
3,200.00	3,188.58	3,176.04	3,173.64	11.56	11.17	109.37	293.04	-31.72	285.43	262.80	22.63	12.613	
3,300.00	3,288.01	3,275.49	3,272.86	11.94	11.53	110.50	299.77	-31.88	294.30	270.94	23.36	12.597	
3,400.00	3,387.43	3,374.93	3,372.07	12.32	11.89	111.56	306.50	-32.04	303.28	279.18	24.10	12.586	
3,500.00	3,486.86	3,474.37	3,471.29	12.70	12.25	112.56	313.23	-32.19	312.35	287.52	24.83	12.580	
3,600.00	3,586.29	3,573.82	3,570.50	13.09	12.62	113.51	319.96	-32.35	321.52	295.96	25.56	12.578	
3,700.00	3,685.72	3,673.26	3,669.72	13.47	12.98	114.40	326.69	-32.51	330.77	304.47	26.30	12.579	
3,800.00	3,785.15	3,772.70	3,768.93	13.86	13.34	115.24	333.42	-32.67	340.09	313.06	27.03	12.582	
3,900.00	3,884.60	3,872.17	3,868.17	14.24	13.70	116.06	340.15	-32.83	349.35	321.59	27.76	12.584	
4,000.00	3,984.31	3,971.82	3,967.59	14.61	14.07	116.51	346.90	-32.99	357.39	328.90	28.49	12.545	
4,100.00	4,084.23	4,071.60	4,067.14	14.97	14.43	116.43	353.65	-33.14	363.88	334.67	29.21	12.458	
4,200.00	4,184.22	4,171.38	4,166.69	15.31	14.79	44.15	360.41	-33.30	368.93	339.01	29.92	12.332	
4,300.00	4,284.22	4,271.15	4,266.24	15.65	15.16	43.41	367.16	-33.46	373.71	343.09	30.63	12.203	
4,400.00	4,384.22	4,370.92	4,365.78	15.99	15.52	42.69	373.91	-33.62	378.56	347.22	31.33	12.082	
4,500.00	4,484.22	4,470.69	4,465.32	16.33	15.89	41.99	380.67	-33.78	383.46	351.42	32.04	11.968	
4,600.00	4,584.22	4,576.99	4,571.42	16.67	16.27	41.34	387.11	-33.93	387.92	355.13	32.79	11.830	
4,700.00	4,684.22	4,688.07	4,682.46	17.02	16.67	41.05	389.95	-34.00	389.80	356.25	33.55	11.619	
4,800.00	4,784.22	4,789.84	4,784.22	17.36	17.03	41.05	390.00	-34.00	389.84	355.58	34.26	11.380	
4,900.00	4,884.22	4,889.84	4,884.22	17.70	17.39	41.05	390.00	-34.00	389.84	354.88	34.96	11.152	
5,000.00	4,984.22	4,989.84	4,984.22	18.05	17.74	41.05	390.00	-34.00	389.84	354.18	35.66	10.933	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #111H- OH - Prelim A														Offset Site Error
Survey Program: 0-MWD-HDGM														Offset Well Error
Reference	Offset	Semi Major Axis		Reference		Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	N/S (usft)	E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
5,100.00	5,084.22	5,089.84	5,084.22	18.39	18.10	41.05	390.00	-34.00	389.84	353.48	36.36	10.722		
5,200.00	5,184.22	5,189.84	5,184.22	18.74	18.46	41.05	390.00	-34.00	389.84	352.77	37.06	10.518		
5,300.00	5,284.22	5,289.84	5,284.22	19.08	18.81	41.05	390.00	-34.00	389.84	352.07	37.77	10.322		
5,400.00	5,384.22	5,389.84	5,384.22	19.43	19.17	41.05	390.00	-34.00	389.84	351.37	38.47	10.134		
5,500.00	5,484.22	5,489.84	5,484.22	19.77	19.52	41.05	390.00	-34.00	389.84	350.66	39.17	9.951		
5,600.00	5,584.22	5,589.84	5,584.22	20.12	19.88	41.05	390.00	-34.00	389.84	349.96	39.88	9.776		
5,700.00	5,684.22	5,689.84	5,684.22	20.47	20.23	41.05	390.00	-34.00	389.84	349.25	40.58	9.606		
5,800.00	5,784.22	5,789.84	5,784.22	20.82	20.59	41.05	390.00	-34.00	389.84	348.55	41.29	9.442		
5,900.00	5,884.22	5,889.84	5,884.22	21.16	20.95	41.05	390.00	-34.00	389.84	347.84	41.99	9.283		
6,000.00	5,984.22	5,989.84	5,984.22	21.51	21.30	41.05	390.00	-34.00	389.84	347.14	42.70	9.129		
6,100.00	6,084.22	6,089.84	6,084.22	21.86	21.66	41.05	390.00	-34.00	389.84	346.43	43.41	8.981		
6,200.00	6,184.22	6,189.84	6,184.22	22.21	22.01	41.05	390.00	-34.00	389.84	345.72	44.11	8.837		
6,300.00	6,284.22	6,289.84	6,284.22	22.56	22.37	41.05	390.00	-34.00	389.84	345.01	44.82	8.698		
6,400.00	6,384.22	6,366.58	6,360.92	22.91	22.64	41.22	390.25	-32.26	391.86	346.49	45.38	8.636 SF		
6,500.00	6,484.22	6,431.33	6,425.05	23.26	22.86	42.03	391.47	-23.64	402.19	356.58	45.60	8.819		
6,600.00	6,584.22	6,493.38	6,485.21	23.61	23.07	43.39	393.60	-8.71	421.30	375.79	45.50	9.258		
6,700.00	6,684.22	6,550.00	6,538.39	23.96	23.25	45.01	396.33	10.46	449.15	404.13	45.03	9.975		
6,800.00	6,784.22	6,600.00	6,583.57	24.31	23.42	46.68	399.34	31.63	485.51	441.34	44.17	10.992		
6,900.00	6,884.22	6,650.00	6,626.71	24.66	23.59	48.48	402.90	56.62	529.76	486.52	43.24	12.251		
7,000.00	6,984.22	6,700.00	6,667.48	25.01	23.78	50.35	406.97	85.24	581.23	538.88	42.35	13.724		
7,100.00	7,084.22	6,736.80	6,695.80	25.36	23.92	51.74	410.28	108.50	639.10	598.00	41.09	15.553		
7,200.00	7,184.22	6,771.77	6,721.26	25.71	24.07	53.04	413.66	132.22	702.50	662.58	39.92	17.599		
7,300.00	7,284.22	6,800.00	6,740.72	26.07	24.19	54.08	416.54	152.47	770.66	731.96	38.69	19.917		
7,400.00	7,384.22	6,830.74	6,760.73	26.42	24.33	55.18	419.82	175.56	842.82	805.08	37.74	22.330		
7,500.00	7,484.22	6,850.00	6,772.63	26.77	24.42	55.85	421.96	190.56	918.45	881.83	36.62	25.079		
7,600.00	7,584.22	6,877.81	6,788.88	27.12	24.57	56.80	425.14	212.90	996.90	960.96	35.93	27.742		
7,700.00	7,684.22	6,900.00	6,801.06	27.48	24.68	57.53	427.75	231.26	1,077.85	1,042.61	35.24	30.590		
7,800.00	7,784.22	6,915.79	6,809.28	27.83	24.77	58.03	429.65	244.60	1,160.88	1,126.37	34.51	33.635		
7,900.00	7,884.22	6,932.05	6,817.35	28.18	24.86	58.54	431.64	258.58	1,245.72	1,211.78	33.94	36.704		
8,000.00	7,984.22	6,950.00	6,825.80	28.53	24.97	59.09	433.87	274.26	1,332.10	1,298.59	33.52	39.745		
8,100.00	8,084.22	6,950.00	6,825.80	28.89	24.97	59.09	433.87	274.26	1,419.92	1,387.11	32.82	43.266		
8,200.00	8,184.22	6,972.49	6,835.67	29.24	25.11	59.75	436.72	294.27	1,508.66	1,475.98	32.68	46.170		
8,300.00	8,284.22	7,000.00	6,846.66	29.59	25.29	60.53	440.27	319.23	1,598.84	1,566.16	32.68	48.923		
8,400.00	8,384.22	7,000.00	6,846.66	29.95	25.29	60.53	440.27	319.23	1,689.32	1,657.07	32.25	52.381		
8,500.00	8,484.22	7,000.00	6,846.66	30.30	25.29	60.53	440.27	319.23	1,780.82	1,748.91	31.91	55.816		
8,600.00	8,584.17	7,000.00	6,846.66	30.65	25.29	-35.02	440.27	319.23	1,872.59	1,840.98	31.61	59.237		
8,700.00	8,682.61	7,024.05	6,855.26	30.96	25.46	-25.89	443.44	341.46	1,959.22	1,927.62	31.60	62.009		
8,800.00	8,776.63	7,050.00	6,863.48	31.24	25.64	-20.76	446.90	365.83	2,038.76	2,007.24	31.52	64.688		
8,900.00	8,863.36	7,050.00	6,863.48	31.52	25.64	-17.53	446.90	365.83	2,108.88	2,077.83	31.05	67.916		
9,000.00	8,940.19	7,069.81	6,868.99	31.81	25.80	-15.51	449.58	384.67	2,168.71	2,137.88	30.84	70.333		
9,100.00	9,004.76	7,100.00	6,876.13	32.12	26.03	-14.29	453.72	413.70	2,217.21	2,186.46	30.75	72.100		
9,200.00	9,055.12	7,100.00	6,876.13	32.51	26.03	-13.37	453.72	413.70	2,253.09	2,222.67	30.42	74.070		
9,300.00	9,089.74	7,125.11	6,880.88	32.98	26.24	-13.02	457.19	438.11	2,276.13	2,245.69	30.45	74.761		
9,400.00	9,107.57	7,150.00	6,884.52	33.55	26.45	-13.01	460.66	462.49	2,285.99	2,255.40	30.59	74.719		
9,500.00	9,110.00	7,150.00	6,884.52	34.22	26.45	-12.97	460.66	462.49	2,284.33	2,253.62	30.71	74.378		
9,600.00	9,110.00	7,200.00	6,888.59	35.02	26.91	-13.31	467.68	511.81	2,282.84	2,251.56	31.27	72.996		
9,636.71	9,110.00	7,200.00	6,888.59	35.36	26.91	-13.30	467.68	511.81	2,282.62	2,251.23	31.39	72.720		
9,700.00	9,110.00	7,200.00	6,888.59	35.95	26.91	-13.32	467.68	511.81	2,283.26	2,251.64	31.62	72.216		
9,800.00	9,110.00	7,228.35	6,889.00	37.00	27.18	-13.54	471.66	539.87	2,286.30	2,254.11	32.19	71.015		
9,900.00	9,110.00	7,367.77	6,889.00	38.15	28.68	-13.96	485.77	678.54	2,288.93	2,255.65	33.27	68.792		
10,000.00	9,110.00	7,503.84	6,889.00	39.40	30.36	-14.06	489.78	814.53	2,289.63	2,255.26	34.37	66.623		
10,100.00	9,110.00	7,603.84	6,889.00	40.74	31.75	-14.06	489.78	914.53	2,289.64	2,254.28	35.35	64.767		

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com (Slot 1)
Site Error: 0.00 usft
Reference Well: #135H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #135H
TVD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
MD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #111H - OH - Prelim A													Offset Site Error: 0.00 usft
Survey Program: 0-MWD-HDGM													Offset Well Error: 0.00 usft
Reference	Offset	Semi-Major Axis	Distance										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Footface (")	Offset Wellbore Centre N/S (usft)	Offset Wellbore Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,200.00	9,110.00	7,703.84	6,889.00	42.17	33.24	-14.07	489.74	1,014.53	2,289.64	2,253.23	36.41	62.885	
10,300.00	9,110.00	7,803.84	6,889.00	43.67	34.81	-14.07	489.72	1,114.53	2,289.65	2,252.11	37.54	60.999	
10,400.00	9,110.00	7,903.84	6,889.00	45.24	36.47	-14.07	489.70	1,214.53	2,289.66	2,250.93	38.72	59.130	
10,500.00	9,110.00	8,003.84	6,889.00	46.87	38.19	-14.07	489.69	1,314.53	2,289.66	2,249.70	39.96	57.292	
10,600.00	9,110.00	8,103.84	6,889.00	48.55	39.97	-14.07	489.67	1,414.53	2,289.67	2,248.41	41.26	55.498	
10,700.00	9,110.00	8,203.84	6,889.00	50.29	41.81	-14.07	489.65	1,514.53	2,289.68	2,247.08	42.59	53.755	
10,800.00	9,110.00	8,303.84	6,889.00	52.07	43.69	-14.07	489.63	1,614.53	2,289.68	2,245.71	43.97	52.070	
10,900.00	9,110.00	8,403.84	6,889.00	53.89	45.60	-14.07	489.61	1,714.53	2,289.69	2,244.30	45.39	50.445	
11,000.00	9,110.00	8,503.84	6,889.00	55.74	47.56	-14.07	489.59	1,814.53	2,289.70	2,242.86	46.84	48.884	
11,100.00	9,110.00	8,603.84	6,889.00	57.63	49.54	-14.07	489.57	1,914.53	2,289.71	2,241.38	48.32	47.386	
11,200.00	9,110.00	8,703.84	6,889.00	59.55	51.55	-14.07	489.55	2,014.53	2,289.71	2,239.88	49.83	45.951	
11,300.00	9,110.00	8,803.84	6,889.00	61.50	53.58	-14.07	489.53	2,114.53	2,289.72	2,238.36	51.36	44.578	
11,400.00	9,110.00	8,903.84	6,889.00	63.47	55.64	-14.07	489.51	2,214.53	2,289.73	2,236.80	52.92	43.266	
11,500.00	9,110.00	9,003.84	6,889.00	65.46	57.72	-14.07	489.49	2,314.53	2,289.73	2,235.23	54.50	42.012	
11,600.00	9,110.00	9,103.84	6,889.00	67.47	59.81	-14.07	489.47	2,414.53	2,289.74	2,233.64	56.10	40.815	
11,700.00	9,110.00	9,203.84	6,889.00	69.50	61.92	-14.08	489.45	2,514.53	2,289.75	2,232.03	57.72	39.672	
11,800.00	9,110.00	9,303.84	6,889.00	71.55	64.04	-14.08	489.43	2,614.53	2,289.75	2,230.40	59.35	38.580	
11,900.00	9,110.00	9,403.84	6,889.00	73.61	66.17	-14.08	489.42	2,714.53	2,289.76	2,228.76	61.00	37.538	
12,000.00	9,110.00	9,503.84	6,889.00	75.69	68.32	-14.08	489.40	2,814.53	2,289.77	2,227.11	62.66	36.542	
12,100.00	9,110.00	9,603.84	6,889.00	77.78	70.47	-14.08	489.38	2,914.53	2,289.77	2,225.44	64.34	35.590	
12,200.00	9,110.00	9,703.84	6,889.00	79.88	72.64	-14.08	489.36	3,014.53	2,289.78	2,223.76	66.02	34.681	
12,300.00	9,110.00	9,803.84	6,889.00	82.00	74.81	-14.08	489.34	3,114.53	2,289.79	2,222.07	67.72	33.811	
12,400.00	9,110.00	9,903.84	6,889.00	84.12	76.99	-14.08	489.32	3,214.53	2,289.79	2,220.36	69.43	32.979	
12,500.00	9,110.00	10,003.84	6,889.00	86.26	79.18	-14.08	489.30	3,314.53	2,289.80	2,218.65	71.15	32.183	
12,600.00	9,110.00	10,103.84	6,889.00	88.40	81.38	-14.08	489.28	3,414.53	2,289.81	2,216.93	72.88	31.420	
12,700.00	9,110.00	10,203.84	6,889.00	90.55	83.58	-14.08	489.26	3,514.53	2,289.82	2,215.20	74.61	30.690	
12,800.00	9,110.00	10,303.84	6,889.00	92.71	85.79	-14.08	489.24	3,614.53	2,289.82	2,213.47	76.36	29.989	
12,900.00	9,110.00	10,403.84	6,889.00	94.87	88.00	-14.08	489.22	3,714.53	2,289.83	2,211.72	78.11	29.317	
13,000.00	9,110.00	10,503.84	6,889.00	97.04	90.22	-14.08	489.20	3,814.53	2,289.84	2,209.97	79.86	28.672	
13,100.00	9,110.00	10,603.84	6,889.00	99.22	92.44	-14.09	489.18	3,914.53	2,289.84	2,208.22	81.63	28.053	
13,200.00	9,110.00	10,703.84	6,889.00	101.40	94.66	-14.09	489.16	4,014.53	2,289.85	2,206.45	83.40	27.458	
13,300.00	9,110.00	10,803.84	6,889.00	103.59	96.89	-14.09	489.14	4,114.53	2,289.86	2,204.69	85.17	26.886	
13,400.00	9,110.00	10,903.84	6,889.00	105.79	99.13	-14.09	489.13	4,214.53	2,289.86	2,202.91	86.95	26.335	
13,500.00	9,110.00	11,003.84	6,889.00	107.99	101.36	-14.09	489.11	4,314.53	2,289.87	2,201.13	88.74	25.805	
13,600.00	9,110.00	11,103.84	6,889.00	110.19	103.60	-14.09	489.09	4,414.53	2,289.88	2,199.35	90.53	25.295	
13,700.00	9,110.00	11,203.84	6,889.00	112.40	105.85	-14.09	489.07	4,514.53	2,289.88	2,197.56	92.32	24.804	
13,800.00	9,110.00	11,303.84	6,889.00	114.61	108.09	-14.09	489.05	4,614.53	2,289.89	2,195.77	94.12	24.330	
13,900.00	9,110.00	11,403.84	6,889.00	116.83	110.34	-14.09	489.03	4,714.53	2,289.90	2,193.98	95.92	23.873	
14,000.00	9,110.00	11,503.84	6,889.00	119.04	112.59	-14.09	489.01	4,814.53	2,289.91	2,192.18	97.73	23.432	
14,100.00	9,110.00	11,603.84	6,889.00	121.27	114.84	-14.09	488.99	4,914.53	2,289.91	2,190.38	99.54	23.006	
14,200.00	9,110.00	11,703.84	6,889.00	123.49	117.10	-14.09	488.97	5,014.53	2,289.92	2,188.57	101.35	22.595	
14,300.00	9,110.00	11,803.84	6,889.00	125.72	119.36	-14.09	488.95	5,114.53	2,289.93	2,186.76	103.16	22.197	
14,400.00	9,110.00	11,903.84	6,889.00	127.95	121.62	-14.09	488.93	5,214.53	2,289.93	2,184.95	104.98	21.812	
14,500.00	9,110.00	12,003.84	6,889.00	130.19	123.88	-14.09	488.91	5,314.53	2,289.94	2,183.14	106.80	21.440	
14,600.00	9,110.00	12,103.84	6,889.00	132.42	126.14	-14.10	488.89	5,414.53	2,289.95	2,181.32	108.63	21.080	
14,700.00	9,110.00	12,203.84	6,889.00	134.66	128.40	-14.10	488.87	5,514.53	2,289.95	2,179.50	110.46	20.732	
14,800.00	9,110.00	12,303.84	6,889.00	136.90	130.67	-14.10	488.86	5,614.53	2,289.96	2,177.68	112.29	20.394	
14,900.00	9,110.00	12,403.84	6,889.00	139.15	132.94	-14.10	488.84	5,714.53	2,289.97	2,175.85	114.12	20.067	
15,000.00	9,110.00	12,503.84	6,889.00	141.39	135.21	-14.10	488.82	5,814.53	2,289.97	2,174.02	115.95	19.749	
15,100.00	9,110.00	12,603.84	6,889.00	143.64	137.48	-14.10	488.80	5,914.53	2,289.98	2,172.19	117.79	19.442	
15,200.00	9,110.00	12,703.84	6,889.00	145.89	139.75	-14.10	488.78	6,014.53	2,289.99	2,170.36	119.63	19.143	
15,300.00	9,110.00	12,803.84	6,889.00	148.14	142.02	-14.10	488.76	6,114.53	2,289.99	2,168.53	121.47	18.853	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner 1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) : #111H: OH: Prelim A														Offset Site Error:
Survey Program: 0-MWD-HDGM														Offset Well Error:
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		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		
15,400.00	9,110.00	12,903.84	6,889.00	150.39	144.29	-14.10	488.74	6,214.53	2,290.00	2,166.69	123.31	18.571		
15,500.00	9,110.00	13,003.84	6,889.00	152.65	146.57	-14.10	488.72	6,314.53	2,290.01	2,164.86	125.15	18.298		
15,600.00	9,110.00	13,103.84	6,889.00	154.91	148.85	-14.10	488.70	6,414.53	2,290.02	2,163.02	127.00	18.032		
15,700.00	9,110.00	13,203.84	6,889.00	157.16	151.12	-14.10	488.68	6,514.53	2,290.02	2,161.18	128.84	17.774		
15,800.00	9,110.00	13,303.84	6,889.00	159.42	153.40	-14.10	488.66	6,614.53	2,290.03	2,159.34	130.69	17.522		
15,900.00	9,110.00	13,403.84	6,889.00	161.68	155.68	-14.10	488.64	6,714.53	2,290.04	2,157.49	132.54	17.278		
16,000.00	9,110.00	13,503.84	6,889.00	163.95	157.96	-14.11	488.62	6,814.53	2,290.04	2,155.65	134.39	17.040		
16,100.00	9,110.00	13,603.84	6,889.00	166.21	160.24	-14.11	488.60	6,914.53	2,290.05	2,153.80	136.25	16.808		
16,200.00	9,110.00	13,703.84	6,889.00	168.47	162.52	-14.11	488.59	7,014.53	2,290.06	2,151.96	138.10	16.582		
16,300.00	9,110.00	13,803.84	6,889.00	170.74	164.80	-14.11	488.57	7,114.53	2,290.06	2,150.11	139.96	16.363		
16,400.00	9,110.00	13,903.84	6,889.00	173.01	167.09	-14.11	488.55	7,214.53	2,290.07	2,148.26	141.81	16.148		
16,500.00	9,110.00	14,003.84	6,889.00	175.28	169.37	-14.11	488.53	7,314.53	2,290.08	2,146.41	143.67	15.940		
16,600.00	9,110.00	14,103.84	6,889.00	177.54	171.65	-14.11	488.51	7,414.53	2,290.08	2,144.55	145.53	15.736		
16,700.00	9,110.00	14,203.84	6,889.00	179.82	173.94	-14.11	488.49	7,514.53	2,290.09	2,142.70	147.39	15.537		
16,800.00	9,110.00	14,303.84	6,889.00	182.09	176.22	-14.11	488.47	7,614.53	2,290.10	2,140.84	149.25	15.344		
16,900.00	9,110.00	14,403.84	6,889.00	184.36	178.51	-14.11	488.45	7,714.53	2,290.11	2,138.99	151.12	15.155		
17,000.00	9,110.00	14,503.84	6,889.00	186.63	180.80	-14.11	488.43	7,814.53	2,290.11	2,137.13	152.98	14.970		
17,100.00	9,110.00	14,603.84	6,889.00	188.91	183.08	-14.11	488.41	7,914.53	2,290.12	2,135.27	154.84	14.790		
17,200.00	9,110.00	14,703.84	6,889.00	191.18	185.37	-14.11	488.39	8,014.53	2,290.13	2,133.42	156.71	14.614		
17,300.00	9,110.00	14,803.84	6,889.00	193.46	187.66	-14.11	488.37	8,114.53	2,290.13	2,131.56	158.58	14.442		
17,400.00	9,110.00	14,903.84	6,889.00	195.73	189.95	-14.11	488.35	8,214.53	2,290.14	2,129.70	160.44	14.274		
17,500.00	9,110.00	15,003.84	6,889.00	198.01	192.24	-14.12	488.33	8,314.53	2,290.15	2,127.84	162.31	14.110		
17,600.00	9,110.00	15,103.84	6,889.00	200.29	194.53	-14.12	488.32	8,414.53	2,290.15	2,125.97	164.18	13.949		
17,700.00	9,110.00	15,203.84	6,889.00	202.56	196.82	-14.12	488.30	8,514.53	2,290.16	2,124.11	166.05	13.792		
17,800.00	9,110.00	15,303.84	6,889.00	204.84	199.11	-14.12	488.28	8,614.53	2,290.17	2,122.25	167.92	13.638		
17,900.00	9,110.00	15,403.84	6,889.00	207.12	201.40	-14.12	488.26	8,714.53	2,290.17	2,120.38	169.79	13.488		
18,000.00	9,110.00	15,503.84	6,889.00	209.40	203.69	-14.12	488.24	8,814.53	2,290.18	2,118.52	171.66	13.341		
18,100.00	9,110.00	15,603.84	6,889.00	211.69	205.98	-14.12	488.22	8,914.53	2,290.19	2,116.65	173.54	13.197		
18,200.00	9,110.00	15,703.84	6,889.00	213.97	208.27	-14.12	488.20	9,014.53	2,290.20	2,114.79	175.41	13.056		
18,300.00	9,110.00	15,803.84	6,889.00	216.25	210.57	-14.12	488.18	9,114.53	2,290.20	2,112.92	177.28	12.918		
18,400.00	9,110.00	15,903.84	6,889.00	218.53	212.86	-14.12	488.16	9,214.53	2,290.21	2,111.05	179.16	12.783		
18,500.00	9,110.00	16,003.84	6,889.00	220.82	215.15	-14.12	488.14	9,314.53	2,290.22	2,109.18	181.03	12.651		
18,600.00	9,110.00	16,103.84	6,889.00	223.10	217.45	-14.12	488.12	9,414.53	2,290.22	2,107.31	182.91	12.521		
18,700.00	9,110.00	16,203.84	6,889.00	225.38	219.74	-14.12	488.10	9,514.53	2,290.23	2,105.44	184.79	12.394		
18,800.00	9,110.00	16,303.84	6,889.00	227.67	222.03	-14.12	488.08	9,614.53	2,290.24	2,103.57	186.66	12.269		
18,900.00	9,110.00	16,403.84	6,889.00	229.95	224.33	-14.12	488.06	9,714.53	2,290.24	2,101.70	188.54	12.147		
19,000.00	9,110.00	16,503.84	6,889.00	232.24	226.62	-14.13	488.05	9,814.53	2,290.25	2,099.83	190.42	12.027		
19,100.00	9,110.00	16,603.84	6,889.00	234.53	228.92	-14.13	488.03	9,914.53	2,290.26	2,097.96	192.30	11.910		
19,200.00	9,110.00	16,703.84	6,889.00	236.81	231.21	-14.13	488.01	10,014.53	2,290.26	2,096.09	194.18	11.795		
19,237.58	9,110.00	16,741.42	6,889.00	237.36	232.08	-14.13	488.00	10,052.11	2,290.27	2,095.54	194.72	11.762		

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey/Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #121H - OH - Prelim A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD-HDGM												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside (usft)	Offset Wellbore Centre (usft)	N/S (usft)	E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-12.09	140.00	-30.00		143.18			
100.00	100.00	100.00	100.00	0.13	0.13	-12.09	140.00	-30.00		143.18	142.92	0.26	558.619
200.00	200.00	200.00	200.00	0.49	0.49	-12.09	140.00	-30.00		143.18	142.20	0.97	147.113
300.00	300.00	300.00	300.00	0.85	0.85	-12.09	140.00	-30.00		143.18	141.49	1.69	84.711
400.00	400.00	400.00	400.00	1.20	1.20	-12.09	140.00	-30.00		143.18	140.77	2.41	59.481
500.00	500.00	500.00	500.00	1.56	1.56	-12.09	140.00	-30.00		143.18	140.05	3.12	45.831
600.00	600.00	600.00	600.00	1.92	1.92	-12.09	140.00	-30.00		143.18	139.34	3.84	37.276
700.00	700.00	700.00	700.00	2.28	2.28	-12.09	140.00	-30.00		143.18	138.62	4.56	31.413
800.00	800.00	800.00	800.00	2.64	2.64	-12.09	140.00	-30.00		143.18	137.90	5.27	27.143
900.00	900.00	900.00	900.00	3.00	3.00	-12.09	140.00	-30.00		143.18	137.19	5.99	23.895
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	-12.09	140.00	-30.00		143.18	136.47	6.71	21.342
1,100.00	1,099.98	1,100.02	1,099.98	3.71	3.71	60.21	140.00	-30.00		142.30	134.88	7.42	19.178
1,200.00	1,199.84	1,200.16	1,199.84	4.06	4.07	62.11	140.00	-30.00		139.78	131.65	8.13	17.194
1,300.00	1,299.45	1,300.55	1,299.45	4.41	4.43	65.42	140.00	-30.00		135.91	127.07	8.84	15.367
1,400.00	1,398.88	1,401.12	1,398.88	4.77	4.79	69.63	140.00	-30.00		131.81	122.24	9.56	13.781
1,500.00	1,498.31	1,501.69	1,498.31	5.14	5.15	74.08	140.00	-30.00		128.46	118.17	10.29	12.486
1,600.00	1,597.74	1,602.26	1,597.74	5.50	5.51	78.73	140.00	-30.00		125.93	114.92	11.02	11.431
1,700.00	1,697.16	1,702.84	1,697.16	5.87	5.87	83.54	140.00	-30.00		124.28	112.53	11.75	10.579
1,800.00	1,796.59	1,803.41	1,796.59	6.24	6.23	88.44	140.00	-30.00		123.53	111.05	12.48	9.899
1,831.60	1,828.01	1,828.01	1,828.01	6.36	6.32	90.00	140.00	-30.00		123.48	110.79	12.68	9.735 CC
1,900.00	1,896.02	1,903.98	1,896.02	6.62	6.59	93.37	140.00	-30.00		123.70	110.48	13.21	9.363 ES
2,000.00	1,995.45	1,995.45	1,995.45	6.99	6.92	98.24	140.00	-30.00		124.78	110.87	13.91	8.971
2,100.00	2,094.87	2,092.66	2,092.64	7.37	7.27	102.33	141.34	-30.67		127.59	112.96	14.63	8.724
2,200.00	2,194.30	2,190.03	2,189.89	7.75	7.62	104.99	145.64	-32.80		132.71	117.37	15.34	8.653
2,300.00	2,293.73	2,289.40	2,289.01	8.13	7.97	106.70	151.97	-35.94		139.13	123.07	16.06	8.661
2,400.00	2,393.16	2,389.11	2,388.46	8.50	8.33	108.26	158.35	-39.10		145.68	128.89	16.79	8.674
2,500.00	2,492.59	2,488.82	2,487.92	8.88	8.69	109.68	164.74	-42.27		152.33	134.80	17.53	8.692
2,600.00	2,592.01	2,588.53	2,587.37	9.26	9.05	110.98	171.12	-45.44		159.06	140.81	18.26	8.712
2,700.00	2,691.44	2,688.24	2,686.83	9.64	9.41	112.18	177.51	-48.60		165.87	146.88	18.99	8.735
2,800.00	2,790.87	2,787.95	2,786.28	10.03	9.77	113.28	183.89	-51.77		172.75	153.02	19.72	8.759
2,900.00	2,890.30	2,887.66	2,885.74	10.41	10.13	114.30	190.27	-54.94		179.68	159.22	20.46	8.784
3,000.00	2,989.72	2,987.37	2,985.19	10.79	10.49	115.24	196.66	-58.10		186.67	165.48	21.19	8.809
3,100.00	3,089.15	3,087.08	3,084.65	11.17	10.85	116.11	203.04	-61.27		193.70	171.77	21.93	8.834
3,200.00	3,188.58	3,186.79	3,184.11	11.56	11.21	116.92	209.42	-64.43		200.77	178.11	22.66	8.860
3,300.00	3,288.01	3,286.50	3,283.56	11.94	11.57	117.68	215.81	-67.60		207.89	184.49	23.40	8.886
3,400.00	3,387.43	3,386.21	3,383.02	12.32	11.94	118.39	222.19	-70.77		215.03	190.90	24.13	8.911
3,500.00	3,486.86	3,485.92	3,482.47	12.70	12.30	119.05	228.57	-73.93		222.21	197.34	24.87	8.935
3,600.00	3,586.29	3,585.63	3,581.93	13.09	12.66	119.66	234.96	-77.10		229.41	203.81	25.60	8.960
3,700.00	3,685.72	3,685.34	3,681.38	13.47	13.03	120.25	241.34	-80.26		236.64	210.30	26.34	8.984
3,800.00	3,785.15	3,785.05	3,780.84	13.86	13.39	120.79	247.72	-83.43		243.89	216.81	27.08	9.007
3,900.00	3,884.60	3,884.78	3,880.31	14.24	13.75	121.30	254.11	-86.60		251.01	223.20	27.82	9.024
4,000.00	3,984.31	3,984.61	3,979.89	14.61	14.12	121.28	260.50	-89.77		256.65	228.10	28.55	8.990
4,100.00	4,084.23	4,084.48	4,079.49	14.97	14.49	120.58	266.89	-92.94		260.50	231.22	29.28	8.898
4,200.00	4,184.22	4,184.25	4,179.02	15.31	14.85	47.56	273.28	-96.11		262.77	232.78	29.99	8.761
4,300.00	4,284.22	4,284.00	4,278.51	15.65	15.22	46.08	279.67	-99.27		264.84	234.13	30.71	8.624
4,400.00	4,384.22	4,383.74	4,377.99	15.99	15.58	44.62	286.05	-102.44		267.09	235.66	31.43	8.498
4,500.00	4,484.22	4,483.48	4,477.48	16.33	15.95	43.19	292.44	-105.61		269.51	237.36	32.14	8.384
4,600.00	4,584.22	4,583.23	4,576.97	16.67	16.31	41.78	298.82	-108.78		272.09	239.23	32.86	8.280
4,700.00	4,684.22	4,682.97	4,676.46	17.02	16.68	40.40	305.21	-111.94		274.83	241.26	33.58	8.185
4,800.00	4,784.22	4,782.72	4,775.95	17.36	17.04	39.05	311.59	-115.11		277.73	243.44	34.29	8.099
4,900.00	4,884.22	4,882.46	4,875.44	17.70	17.41	37.73	317.98	-118.28		280.79	245.78	35.01	8.021
5,000.00	4,984.22	4,982.21	4,974.93	18.05	17.78	36.43	324.37	-121.45		283.99	248.26	35.72	7.950

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt.809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Leatherneck 3029 Fed Com (Slot.1) - #121H - OH - Prelim A														Offset Site Error
Survey Program: 0-MWD+HDGM														Offset Well Error
Reference	Offset	Semi Major Axis		Distance		Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	N/S (usft)	E/W (usft)	(usft)	(usft)	(usft)			
5,100.00	5,084.22	5,081.95	5,074.42	18.39	18.14	35.17	330.75	-124.61	287.33	250.89	36.44	7.885		
5,200.00	5,184.22	5,181.69	5,173.91	18.74	18.51	33.93	337.14	-127.78	290.81	253.65	37.15	7.827		
5,300.00	5,284.22	5,281.44	5,273.40	19.08	18.87	32.72	343.52	-130.95	294.42	256.55	37.87	7.775		
5,400.00	5,384.22	5,381.18	5,372.89	19.43	19.24	31.55	349.91	-134.11	298.16	259.58	38.58	7.728		
5,500.00	5,484.22	5,480.93	5,472.38	19.77	19.61	30.40	356.29	-137.28	302.02	262.72	39.30	7.686		
5,600.00	5,584.22	5,580.67	5,571.87	20.12	19.97	29.28	362.68	-140.45	306.00	265.99	40.01	7.648		
5,700.00	5,684.22	5,680.42	5,671.36	20.47	20.34	28.19	369.07	-143.62	310.09	269.37	40.72	7.614		
5,800.00	5,784.22	5,780.16	5,770.85	20.82	20.71	27.13	375.45	-146.78	314.30	272.86	41.44	7.585		
5,900.00	5,884.22	5,879.91	5,870.33	21.16	21.08	26.10	381.84	-149.95	318.61	276.45	42.15	7.559		
6,000.00	5,984.22	5,985.28	5,975.51	21.51	21.46	25.20	387.58	-152.80	322.36	279.46	42.90	7.515		
6,100.00	6,084.22	6,092.83	6,083.02	21.86	21.84	24.83	389.95	-153.98	323.90	280.27	43.63	7.423		
6,200.00	6,184.22	6,205.97	6,184.22	22.21	22.24	24.82	390.00	-154.00	323.93	279.55	44.38	7.299		
6,300.00	6,284.22	6,305.97	6,284.22	22.56	22.60	24.82	390.00	-154.00	323.93	278.85	45.09	7.185		
6,400.00	6,384.22	6,405.97	6,384.22	22.91	22.95	24.82	390.00	-154.00	323.93	278.14	45.79	7.074		
6,500.00	6,484.22	6,505.97	6,484.22	23.26	23.30	24.82	390.00	-154.00	323.93	277.44	46.49	6.967		
6,600.00	6,584.22	6,605.97	6,584.22	23.61	23.65	24.82	390.00	-154.00	323.93	276.73	47.20	6.863		
6,700.00	6,684.22	6,705.97	6,684.22	23.96	24.01	24.82	390.00	-154.00	323.93	276.03	47.90	6.762		
6,800.00	6,784.22	6,805.97	6,784.22	24.31	24.36	24.82	390.00	-154.00	323.93	275.32	48.61	6.664		
6,900.00	6,884.22	6,905.97	6,884.22	24.66	24.72	24.82	390.00	-154.00	323.93	274.62	49.31	6.569		
7,000.00	6,984.22	7,005.97	6,984.22	25.01	25.07	24.82	390.00	-154.00	323.93	273.91	50.02	6.476		
7,100.00	7,084.22	7,105.97	7,084.22	25.36	25.42	24.82	390.00	-154.00	323.93	273.21	50.73	6.386		
7,200.00	7,184.22	7,194.03	7,184.22	25.71	25.73	24.82	390.00	-154.00	323.93	272.54	51.39	6.303		
7,202.42	7,186.64	7,203.55	7,186.64	25.72	25.77	24.82	390.00	-154.00	323.93	272.50	51.43	6.298		
7,300.00	7,284.22	7,284.08	7,274.26	26.07	26.05	24.96	390.13	-153.10	324.58	272.53	52.05	6.236		
7,400.00	7,384.22	7,359.33	7,348.89	26.42	26.30	26.29	391.42	-144.05	331.39	278.93	52.46	6.317		
7,500.00	7,484.22	7,431.02	7,418.31	26.77	26.52	28.76	393.92	-126.49	346.17	293.64	52.53	6.590		
7,600.00	7,584.22	7,500.00	7,482.51	27.12	26.72	32.00	397.45	-101.62	369.74	317.50	52.24	7.078		
7,700.00	7,684.22	7,557.40	7,533.31	27.48	26.88	35.13	401.21	-75.23	402.56	351.26	51.29	7.848		
7,800.00	7,784.22	7,610.84	7,578.00	27.83	27.02	38.24	405.33	-46.25	444.55	394.53	50.03	8.887		
7,900.00	7,884.22	7,657.93	7,614.97	28.18	27.14	41.01	409.44	-17.39	495.03	446.53	48.50	10.207		
8,000.00	7,984.22	7,700.00	7,645.87	28.53	27.28	43.46	413.46	10.85	552.97	506.06	46.91	11.788		
8,100.00	8,084.22	7,735.35	7,670.17	28.89	27.41	45.46	417.08	36.27	617.24	571.96	45.28	13.632		
8,200.00	8,184.22	7,767.01	7,690.54	29.24	27.54	47.19	420.49	60.25	686.80	643.02	43.78	15.688		
8,300.00	8,284.22	7,800.00	7,710.32	29.59	27.67	48.91	424.21	86.39	760.76	718.16	42.60	17.858		
8,400.00	8,384.22	7,819.29	7,721.16	29.95	27.76	49.88	426.46	102.18	838.24	797.04	41.21	20.342		
8,500.00	8,484.22	7,850.00	7,737.31	30.30	27.90	51.36	430.14	128.04	918.85	878.40	40.45	22.718		
8,600.00	8,584.17	7,850.00	7,737.31	30.65	27.90	-45.63	430.14	128.04	1,001.13	962.18	38.95	25.704		
8,700.00	8,682.61	7,882.68	7,752.93	30.96	28.07	-36.58	434.18	156.45	1,079.17	1,040.78	38.39	28.114		
8,800.00	8,776.63	7,900.00	7,760.53	31.24	28.16	-30.73	436.38	171.86	1,150.85	1,113.43	37.41	30.759		
8,900.00	8,863.36	7,932.39	7,773.48	31.52	28.34	-26.76	440.56	201.24	1,214.51	1,177.66	36.85	32.962		
9,000.00	8,940.19	7,950.00	7,779.81	31.81	28.44	-24.02	442.87	217.51	1,269.41	1,233.34	36.06	35.199		
9,100.00	9,004.76	8,000.00	7,794.99	32.12	28.75	-22.45	449.58	264.66	1,314.59	1,278.55	36.03	36.483		
9,200.00	9,055.12	8,000.00	7,794.99	32.51	28.75	-21.07	449.58	264.66	1,349.42	1,314.04	35.38	38.136		
9,300.00	9,089.74	8,050.00	7,805.97	32.98	29.09	-20.77	456.46	312.94	1,373.25	1,337.49	35.76	38.405		
9,400.00	9,107.57	8,072.26	7,809.48	33.55	29.26	-20.60	459.55	334.70	1,386.31	1,350.23	36.07	38.431		
9,500.00	9,110.00	8,100.00	7,812.65	34.22	29.46	-20.95	463.43	361.98	1,389.98	1,353.20	36.78	37.796		
9,600.00	9,110.00	8,129.97	7,814.58	35.02	29.70	-21.46	467.65	391.59	1,394.99	1,357.33	37.65	37.047		
9,700.00	9,110.00	8,187.45	7,815.00	35.95	30.17	-22.20	475.42	448.53	1,402.93	1,364.20	38.74	36.215		
9,800.00	9,110.00	8,326.16	7,815.00	37.00	31.52	-23.09	487.39	586.69	1,408.44	1,368.28	40.16	35.073		
9,900.00	9,110.00	8,454.03	7,815.00	38.15	32.97	-23.25	489.78	714.53	1,409.44	1,368.04	41.41	34.040		
10,000.00	9,110.00	8,554.03	7,815.00	39.40	34.23	-23.25	489.76	814.53	1,409.45	1,366.88	42.57	33.107		
10,100.00	9,110.00	8,654.03	7,815.00	40.74	35.60	-23.25	489.74	914.53	1,409.47	1,365.64	43.83	32.157		

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com (Slot 1)
Site Error: 0.00 usft
Reference Well: #135H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #135H
TVD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
MD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #121H - OH - Prelim A														Offset Site Error: 0.00 usft
Survey Program: 0-MWD-HDGM														Offset Well Error: 0.00 usft
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	Warning	
10,200.00	9,110.00	8,754.03	7,815.00	42.17	37.06	-23.25	489.72	1,014.53	1,409.48	1,364.30	45.17	31.201		
10,300.00	9,110.00	8,854.03	7,815.00	43.67	38.60	-23.25	489.70	1,114.53	1,409.49	1,362.89	46.60	30.249		
10,400.00	9,110.00	8,954.03	7,815.00	45.24	40.22	-23.25	489.68	1,214.53	1,409.50	1,361.41	48.09	29.310		
10,500.00	9,110.00	9,054.03	7,815.00	46.87	41.90	-23.25	489.66	1,314.53	1,409.51	1,359.86	49.65	28.390		
10,600.00	9,110.00	9,154.03	7,815.00	48.55	43.64	-23.26	489.64	1,414.53	1,409.52	1,358.26	51.27	27.495		
10,700.00	9,110.00	9,254.03	7,815.00	50.29	45.42	-23.26	489.63	1,514.53	1,409.53	1,356.60	52.94	26.627		
10,800.00	9,110.00	9,354.03	7,815.00	52.07	47.26	-23.26	489.61	1,614.53	1,409.54	1,354.89	54.66	25.790		
10,900.00	9,110.00	9,454.03	7,815.00	53.89	49.13	-23.26	489.59	1,714.53	1,409.56	1,353.14	56.42	24.984		
11,000.00	9,110.00	9,554.03	7,815.00	55.74	51.04	-23.26	489.57	1,814.53	1,409.57	1,351.35	58.22	24.210		
11,100.00	9,110.00	9,654.03	7,815.00	57.63	52.98	-23.26	489.55	1,914.53	1,409.58	1,349.52	60.06	23.469		
11,200.00	9,110.00	9,754.03	7,815.00	59.55	54.95	-23.26	489.53	2,014.53	1,409.59	1,347.66	61.93	22.759		
11,300.00	9,110.00	9,854.03	7,815.00	61.50	56.95	-23.26	489.51	2,114.53	1,409.60	1,345.76	63.84	22.081		
11,400.00	9,110.00	9,954.03	7,815.00	63.47	58.97	-23.26	489.49	2,214.53	1,409.61	1,343.84	65.77	21.433		
11,500.00	9,110.00	10,054.03	7,815.00	65.46	61.00	-23.27	489.47	2,314.53	1,409.62	1,341.90	67.73	20.814		
11,600.00	9,110.00	10,154.03	7,815.00	67.47	63.06	-23.27	489.45	2,414.53	1,409.64	1,339.93	69.71	20.223		
11,700.00	9,110.00	10,254.03	7,815.00	69.50	65.14	-23.27	489.44	2,514.53	1,409.65	1,337.94	71.71	19.659		
11,800.00	9,110.00	10,354.03	7,815.00	71.55	67.23	-23.27	489.42	2,614.53	1,409.66	1,335.93	73.73	19.120		
11,900.00	9,110.00	10,454.03	7,815.00	73.61	69.33	-23.27	489.40	2,714.53	1,409.67	1,333.90	75.77	18.606		
12,000.00	9,110.00	10,554.03	7,815.00	75.69	71.44	-23.27	489.38	2,814.53	1,409.68	1,331.86	77.82	18.114		
12,100.00	9,110.00	10,654.03	7,815.00	77.78	73.57	-23.27	489.36	2,914.53	1,409.69	1,329.80	79.89	17.645		
12,200.00	9,110.00	10,754.03	7,815.00	79.88	75.71	-23.27	489.34	3,014.53	1,409.70	1,327.73	81.98	17.196		
12,300.00	9,110.00	10,854.03	7,815.00	82.00	77.86	-23.27	489.32	3,114.53	1,409.71	1,325.64	84.07	16.767		
12,400.00	9,110.00	10,954.03	7,815.00	84.12	80.02	-23.28	489.30	3,214.53	1,409.73	1,323.54	86.18	16.357		
12,500.00	9,110.00	11,054.03	7,815.00	86.26	82.18	-23.28	489.28	3,314.53	1,409.74	1,321.43	88.31	15.964		
12,600.00	9,110.00	11,154.03	7,815.00	88.40	84.35	-23.28	489.26	3,414.53	1,409.75	1,319.31	90.44	15.588		
12,700.00	9,110.00	11,254.03	7,815.00	90.55	86.53	-23.28	489.24	3,514.53	1,409.76	1,317.18	92.58	15.227		
12,800.00	9,110.00	11,354.03	7,815.00	92.71	88.72	-23.28	489.23	3,614.53	1,409.77	1,315.04	94.73	14.882		
12,900.00	9,110.00	11,454.03	7,815.00	94.87	90.91	-23.28	489.21	3,714.53	1,409.78	1,312.89	96.89	14.550		
13,000.00	9,110.00	11,554.03	7,815.00	97.04	93.11	-23.28	489.19	3,814.53	1,409.79	1,310.73	99.06	14.232		
13,100.00	9,110.00	11,654.03	7,815.00	99.22	95.31	-23.28	489.17	3,914.53	1,409.80	1,308.57	101.23	13.926		
13,200.00	9,110.00	11,754.03	7,815.00	101.40	97.52	-23.28	489.15	4,014.53	1,409.82	1,306.40	103.42	13.632		
13,300.00	9,110.00	11,854.03	7,815.00	103.59	99.73	-23.28	489.13	4,114.53	1,409.83	1,304.22	105.61	13.350		
13,400.00	9,110.00	11,954.03	7,815.00	105.79	101.95	-23.29	489.11	4,214.53	1,409.84	1,302.04	107.80	13.078		
13,500.00	9,110.00	12,054.03	7,815.00	107.99	104.17	-23.29	489.09	4,314.53	1,409.85	1,299.85	110.00	12.817		
13,600.00	9,110.00	12,154.03	7,815.00	110.19	106.40	-23.29	489.07	4,414.53	1,409.86	1,297.65	112.21	12.565		
13,700.00	9,110.00	12,254.03	7,815.00	112.40	108.63	-23.29	489.05	4,514.53	1,409.87	1,295.45	114.42	12.322		
13,800.00	9,110.00	12,354.03	7,815.00	114.61	110.86	-23.29	489.04	4,614.53	1,409.88	1,293.25	116.64	12.088		
13,900.00	9,110.00	12,454.03	7,815.00	116.83	113.09	-23.29	489.02	4,714.53	1,409.89	1,291.04	118.86	11.862		
14,000.00	9,110.00	12,554.03	7,815.00	119.04	115.33	-23.29	489.00	4,814.53	1,409.91	1,288.82	121.09	11.644		
14,100.00	9,110.00	12,654.03	7,815.00	121.27	117.57	-23.29	488.98	4,914.53	1,409.92	1,286.60	123.32	11.433		
14,200.00	9,110.00	12,754.03	7,815.00	123.49	119.81	-23.29	488.96	5,014.53	1,409.93	1,284.38	125.55	11.230		
14,300.00	9,110.00	12,854.03	7,815.00	125.72	122.06	-23.30	488.94	5,114.53	1,409.94	1,282.15	127.79	11.033		
14,400.00	9,110.00	12,954.03	7,815.00	127.95	124.31	-23.30	488.92	5,214.53	1,409.95	1,279.92	130.03	10.843		
14,500.00	9,110.00	13,054.03	7,815.00	130.19	126.56	-23.30	488.90	5,314.53	1,409.96	1,277.69	132.27	10.659		
14,600.00	9,110.00	13,154.03	7,815.00	132.42	128.81	-23.30	488.88	5,414.53	1,409.97	1,275.45	134.52	10.481		
14,700.00	9,110.00	13,254.03	7,815.00	134.66	131.06	-23.30	488.86	5,514.53	1,409.99	1,273.21	136.77	10.309		
14,800.00	9,110.00	13,354.03	7,815.00	136.90	133.32	-23.30	488.84	5,614.53	1,410.00	1,270.97	139.03	10.142		
14,900.00	9,110.00	13,454.03	7,815.00	139.15	135.57	-23.30	488.83	5,714.53	1,410.01	1,268.72	141.28	9.980		
15,000.00	9,110.00	13,554.03	7,815.00	141.39	137.83	-23.30	488.81	5,814.53	1,410.02	1,266.48	143.54	9.823		
15,100.00	9,110.00	13,654.03	7,815.00	143.64	140.10	-23.30	488.79	5,914.53	1,410.03	1,264.23	145.81	9.671		
15,200.00	9,110.00	13,754.03	7,815.00	145.89	142.36	-23.30	488.77	6,014.53	1,410.04	1,261.97	148.07	9.523		
15,300.00	9,110.00	13,854.03	7,815.00	148.14	144.62	-23.31	488.75	6,114.53	1,410.05	1,259.72	150.34	9.379		

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #121H - OH - Prelim A													Offset Site Error:
Survey Program: 0-MWD-HDGM													Offset Well Error:
Reference	Offset	Semi-Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	N-S (usft)	E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
15,400.00	9,110.00	13,954.03	7,815.00	150.39	146.89	-23.31	488.73	6,214.53	1,410.06	1,257.46	152.61	9.240	
15,500.00	9,110.00	14,054.03	7,815.00	152.65	149.15	-23.31	488.71	6,314.53	1,410.08	1,255.20	154.88	9.105	
15,600.00	9,110.00	14,154.03	7,815.00	154.91	151.42	-23.31	488.69	6,414.53	1,410.09	1,252.94	157.15	8.973	
15,700.00	9,110.00	14,254.03	7,815.00	157.16	153.69	-23.31	488.67	6,514.53	1,410.10	1,250.67	159.43	8.845	
15,800.00	9,110.00	14,354.03	7,815.00	159.42	155.96	-23.31	488.65	6,614.53	1,410.11	1,248.41	161.70	8.720	
15,900.00	9,110.00	14,454.03	7,815.00	161.68	158.23	-23.31	488.64	6,714.53	1,410.12	1,246.14	163.98	8.599	
16,000.00	9,110.00	14,554.03	7,815.00	163.95	160.50	-23.31	488.62	6,814.53	1,410.13	1,243.87	166.26	8.481	
16,100.00	9,110.00	14,654.03	7,815.00	166.21	162.78	-23.31	488.60	6,914.53	1,410.14	1,241.60	168.54	8.367	
16,200.00	9,110.00	14,754.03	7,815.00	168.47	165.05	-23.32	488.58	7,014.53	1,410.15	1,239.33	170.83	8.255	
16,300.00	9,110.00	14,854.03	7,815.00	170.74	167.33	-23.32	488.56	7,114.53	1,410.17	1,237.05	173.11	8.146	
16,400.00	9,110.00	14,954.03	7,815.00	173.01	169.60	-23.32	488.54	7,214.53	1,410.18	1,234.78	175.40	8.040	
16,500.00	9,110.00	15,054.03	7,815.00	175.28	171.88	-23.32	488.52	7,314.53	1,410.19	1,232.50	177.69	7.936	
16,600.00	9,110.00	15,154.03	7,815.00	177.54	174.16	-23.32	488.50	7,414.53	1,410.20	1,230.22	179.98	7.835	
16,700.00	9,110.00	15,254.03	7,815.00	179.82	176.44	-23.32	488.48	7,514.53	1,410.21	1,227.94	182.27	7.737	
16,800.00	9,110.00	15,354.03	7,815.00	182.09	178.72	-23.32	488.46	7,614.53	1,410.22	1,225.66	184.56	7.641	
16,900.00	9,110.00	15,454.03	7,815.00	184.36	181.00	-23.32	488.44	7,714.53	1,410.23	1,223.38	186.86	7.547	
17,000.00	9,110.00	15,554.03	7,815.00	186.63	183.28	-23.32	488.43	7,814.53	1,410.25	1,221.09	189.15	7.456	
17,100.00	9,110.00	15,654.03	7,815.00	188.91	185.56	-23.33	488.41	7,914.53	1,410.26	1,218.81	191.45	7.366	
17,200.00	9,110.00	15,754.03	7,815.00	191.18	187.84	-23.33	488.39	8,014.53	1,410.27	1,216.52	193.75	7.279	
17,300.00	9,110.00	15,854.03	7,815.00	193.46	190.13	-23.33	488.37	8,114.53	1,410.28	1,214.23	196.05	7.194	
17,400.00	9,110.00	15,954.03	7,815.00	195.73	192.41	-23.33	488.35	8,214.53	1,410.29	1,211.95	198.34	7.110	
17,500.00	9,110.00	16,054.03	7,815.00	198.01	194.69	-23.33	488.33	8,314.53	1,410.30	1,209.66	200.65	7.029	
17,600.00	9,110.00	16,154.03	7,815.00	200.29	196.98	-23.33	488.31	8,414.53	1,410.31	1,207.37	202.95	6.949	
17,700.00	9,110.00	16,254.03	7,815.00	202.56	199.26	-23.33	488.29	8,514.53	1,410.32	1,205.07	205.25	6.871	
17,800.00	9,110.00	16,354.03	7,815.00	204.84	201.55	-23.33	488.27	8,614.53	1,410.34	1,202.78	207.55	6.795	
17,900.00	9,110.00	16,454.03	7,815.00	207.12	203.84	-23.33	488.25	8,714.53	1,410.35	1,200.49	209.86	6.720	
18,000.00	9,110.00	16,554.03	7,815.00	209.40	206.12	-23.33	488.24	8,814.53	1,410.36	1,198.20	212.16	6.648	
18,100.00	9,110.00	16,654.03	7,815.00	211.69	208.41	-23.34	488.22	8,914.53	1,410.37	1,195.90	214.47	6.576	
18,200.00	9,110.00	16,754.03	7,815.00	213.97	210.70	-23.34	488.20	9,014.53	1,410.38	1,193.60	216.78	6.506	
18,300.00	9,110.00	16,854.03	7,815.00	216.25	212.99	-23.34	488.18	9,114.53	1,410.39	1,191.31	219.08	6.438	
18,400.00	9,110.00	16,954.03	7,815.00	218.53	215.28	-23.34	488.16	9,214.53	1,410.40	1,189.01	221.39	6.371	
18,500.00	9,110.00	17,054.03	7,815.00	220.82	217.57	-23.34	488.14	9,314.53	1,410.41	1,186.71	223.70	6.305	
18,600.00	9,110.00	17,154.03	7,815.00	223.10	219.86	-23.34	488.12	9,414.53	1,410.43	1,184.41	226.01	6.240	
18,700.00	9,110.00	17,254.03	7,815.00	225.38	222.15	-23.34	488.10	9,514.53	1,410.44	1,182.11	228.32	6.177	
18,800.00	9,110.00	17,354.03	7,815.00	227.67	224.44	-23.34	488.08	9,614.53	1,410.45	1,179.81	230.64	6.115	
18,900.00	9,110.00	17,454.03	7,815.00	229.95	226.73	-23.34	488.06	9,714.53	1,410.46	1,177.51	232.95	6.055	
19,000.00	9,110.00	17,554.03	7,815.00	232.24	229.02	-23.35	488.04	9,814.53	1,410.47	1,175.21	235.26	5.995	
19,100.00	9,110.00	17,654.03	7,815.00	234.53	231.31	-23.35	488.03	9,914.53	1,410.48	1,172.91	237.58	5.937	
19,200.00	9,110.00	17,754.03	7,815.00	236.81	233.60	-23.35	488.01	10,014.53	1,410.49	1,170.60	239.89	5.880	
19,237.58	9,110.00	17,791.61	7,815.00	237.36	234.46	-23.35	488.00	10,052.11	1,410.50	1,169.92	240.58	5.863 SF	

Pro Directional

Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #122H- OH - Prelim A												Offset Site Error
Survey Program: 0-MWD-HDGM												Offset Well Error
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
0.00	0.00	1.00	1.00	0.00	0.00	0.00	140.00	0.00	140.00			
100.00	100.00	101.00	101.00	0.13	0.13	0.00	140.00	0.00	140.00	139.74	0.26	538.685
200.00	200.00	201.00	201.00	0.49	0.49	0.00	140.00	0.00	140.00	139.02	0.98	143.320
300.00	300.00	301.00	301.00	0.85	0.85	0.00	140.00	0.00	140.00	138.31	1.69	82.655
400.00	400.00	401.00	401.00	1.20	1.21	0.00	140.00	0.00	140.00	137.59	2.41	58.074
500.00	500.00	501.00	501.00	1.56	1.57	0.00	140.00	0.00	140.00	136.87	3.13	44.762
600.00	600.00	601.00	601.00	1.92	1.92	0.00	140.00	0.00	140.00	136.16	3.84	36.415
700.00	700.00	701.00	701.00	2.28	2.28	0.00	140.00	0.00	140.00	135.44	4.56	30.691
800.00	800.00	801.00	801.00	2.64	2.64	0.00	140.00	0.00	140.00	134.72	5.28	26.523
900.00	900.00	901.00	901.00	3.00	3.00	0.00	140.00	0.00	140.00	134.00	6.00	23.351
1,000.00	1,000.00	1,001.00	1,001.00	3.35	3.36	0.00	140.00	0.00	140.00	133.29	6.71	20.857
1,100.00	1,099.98	1,100.98	1,100.98	3.71	3.72	72.37	140.00	0.00	139.46	132.04	7.42	18.786
1,200.00	1,199.84	1,200.84	1,200.84	4.06	4.07	74.47	140.00	0.00	137.97	129.83	8.13	16.966
1,300.00	1,299.45	1,300.45	1,300.45	4.41	4.43	78.04	140.00	0.00	135.89	127.04	8.84	15.365
1,400.00	1,398.88	1,400.12	1,399.88	4.77	4.79	82.49	140.00	0.00	134.07	124.51	9.56	14.023
1,500.00	1,498.31	1,500.69	1,499.31	5.14	5.15	87.03	140.00	0.00	133.09	122.80	10.29	12.940
1,565.01	1,562.94	1,563.94	1,563.94	5.37	5.38	90.00	140.00	0.00	132.91	122.16	10.75	12.363 CC
1,600.00	1,597.74	1,601.26	1,598.74	5.50	5.51	91.60	140.00	0.00	132.96	121.95	11.01	12.074
1,700.00	1,697.16	1,701.84	1,698.16	5.87	5.87	96.16	140.00	0.00	133.69	121.95	11.74	11.387 ES
1,800.00	1,796.59	1,802.41	1,797.59	6.24	6.23	100.64	140.00	0.00	135.26	122.79	12.47	10.847
1,900.00	1,896.02	1,902.98	1,897.02	6.62	6.59	104.99	140.00	0.00	137.64	124.44	13.20	10.429
2,000.00	1,995.45	2,003.55	1,996.45	6.99	6.95	109.17	140.00	0.00	140.80	126.87	13.93	10.110
2,100.00	2,094.87	2,104.13	2,095.87	7.37	7.31	113.15	140.00	0.00	144.68	130.02	14.65	9.873
2,200.00	2,194.30	2,204.70	2,195.30	7.75	7.67	116.91	140.00	0.00	149.22	133.84	15.38	9.703
2,300.00	2,293.73	2,305.27	2,294.73	8.13	8.03	120.43	140.00	0.00	154.37	138.27	16.10	9.586
2,400.00	2,393.16	2,405.84	2,394.16	8.50	8.39	123.72	140.00	0.00	160.07	143.24	16.83	9.513
2,500.00	2,492.59	2,493.59	2,493.59	8.88	8.71	126.77	140.00	0.00	166.26	148.76	17.50	9.499
2,600.00	2,592.01	2,596.16	2,596.14	9.26	9.06	130.13	138.39	-0.04	172.04	153.82	18.21	9.446
2,700.00	2,691.44	2,698.47	2,698.31	9.64	9.39	134.28	133.13	-0.15	176.61	157.71	18.90	9.345
2,800.00	2,790.87	2,800.06	2,799.51	10.03	9.72	139.20	124.30	-0.35	180.56	160.98	19.58	9.223
2,900.00	2,890.30	2,900.67	2,899.36	10.41	10.05	144.86	112.03	-0.62	184.61	164.36	20.25	9.116
3,000.00	2,989.72	3,000.07	2,997.53	10.79	10.38	151.17	96.48	-0.96	189.62	168.70	20.93	9.061
3,100.00	3,089.15	3,102.38	3,093.46	11.17	10.73	157.71	78.73	-1.36	196.57	174.95	21.62	9.093
3,200.00	3,188.58	3,205.21	3,188.97	11.56	11.09	163.76	60.91	-1.75	205.98	183.67	22.31	9.231
3,300.00	3,288.01	3,308.05	3,284.49	11.94	11.46	169.26	43.09	-2.15	217.57	194.55	23.02	9.453
3,400.00	3,387.43	3,389.12	3,380.01	12.32	11.75	174.18	25.28	-2.54	231.00	207.35	23.64	9.770
3,500.00	3,486.86	3,486.29	3,475.53	12.70	12.10	178.55	7.46	-2.94	245.97	221.63	24.34	10.107
3,600.00	3,586.29	3,583.45	3,571.05	13.09	12.46	-177.59	-10.36	-3.33	262.22	237.18	25.03	10.474
3,700.00	3,685.72	3,680.62	3,666.57	13.47	12.83	-174.18	-28.17	-3.73	279.52	253.79	25.74	10.861
3,800.00	3,785.15	3,777.79	3,762.09	13.86	13.20	-171.16	-45.99	-4.12	297.70	271.26	26.44	11.257
3,900.00	3,884.60	3,875.00	3,857.65	14.24	13.57	-168.51	-63.81	-4.52	316.32	289.16	27.16	11.648
4,000.00	3,984.31	3,972.62	3,953.61	14.61	13.95	-166.08	-81.71	-4.91	332.79	304.93	27.87	11.942
4,100.00	4,084.23	4,070.62	4,049.95	14.97	14.33	-163.74	-99.68	-5.31	346.53	317.95	28.58	12.125
4,200.00	4,184.22	4,168.87	4,146.54	15.31	14.71	-126.93	-117.70	-5.71	357.75	328.46	29.28	12.216
4,300.00	4,284.22	4,267.18	4,243.17	15.65	15.10	-129.22	-135.72	-6.11	368.86	338.87	29.99	12.300
4,400.00	4,384.22	4,365.48	4,339.81	15.99	15.49	-131.38	-153.75	-6.51	380.53	349.84	30.69	12.398
4,500.00	4,484.22	4,463.79	4,436.45	16.33	15.89	-133.41	-171.77	-6.91	392.71	361.31	31.40	12.508
4,600.00	4,584.22	4,562.09	4,533.08	16.67	16.28	-135.31	-189.80	-7.31	405.35	373.25	32.10	12.627
4,700.00	4,684.22	4,660.39	4,629.72	17.02	16.68	-137.10	-207.82	-7.71	418.42	385.61	32.81	12.753
4,800.00	4,784.22	4,758.70	4,726.36	17.36	17.08	-138.79	-225.85	-8.11	431.87	398.36	33.51	12.886
4,900.00	4,884.22	4,857.00	4,822.99	17.70	17.48	-140.37	-243.87	-8.51	445.67	411.45	34.22	13.023
5,000.00	4,984.22	4,955.30	4,919.63	18.05	17.88	-141.85	-261.90	-8.91	459.79	424.86	34.93	13.164

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #122H - OH - Prelim A													Offset Site Error
Survey Program: 0-MWD-HDGM													Offset Well Error
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)	Semi-Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,084.22	5,053.61	5,016.26	18.39	18.28	143.25	-279.92	-9.31	474.19	438.56	35.63	13.307	
5,200.00	5,184.22	5,151.91	5,112.90	18.74	18.69	144.57	-297.95	-9.71	488.86	452.52	36.34	13.452	
5,300.00	5,284.22	5,250.22	5,209.54	19.08	19.10	145.81	-315.97	-10.11	503.77	466.73	37.05	13.598	
5,400.00	5,384.22	5,348.52	5,306.17	19.43	19.50	146.98	-334.00	-10.51	518.90	481.15	37.76	13.743	
5,500.00	5,484.22	5,446.82	5,402.81	19.77	19.91	148.08	-352.02	-10.91	534.24	495.77	38.46	13.889	
5,600.00	5,584.22	5,545.13	5,499.45	20.12	20.32	149.12	-370.05	-11.30	549.75	510.58	39.17	14.034	
5,700.00	5,684.22	5,643.43	5,596.08	20.47	20.73	150.11	-388.07	-11.70	565.44	525.56	39.88	14.178	
5,800.00	5,784.22	5,741.73	5,692.72	20.82	21.14	151.04	-406.10	-12.10	581.28	540.69	40.59	14.321	
5,900.00	5,884.22	5,840.04	5,789.35	21.16	21.56	151.92	-424.12	-12.50	597.26	555.96	41.30	14.462	
6,000.00	5,984.22	5,938.34	5,885.99	21.51	21.97	152.76	-442.15	-12.90	613.38	571.37	42.01	14.601	
6,100.00	6,084.22	6,036.65	5,982.63	21.86	22.39	153.55	-460.17	-13.30	629.61	586.89	42.72	14.738	
6,200.00	6,184.22	6,134.95	6,079.26	22.21	22.80	154.30	-478.20	-13.70	645.96	602.53	43.43	14.874	
6,300.00	6,284.22	6,233.25	6,175.90	22.56	23.22	155.02	-496.22	-14.10	662.42	618.28	44.14	15.007	
6,400.00	6,384.22	6,331.56	6,272.54	22.91	23.63	155.70	-514.25	-14.50	678.97	634.12	44.85	15.138	
6,500.00	6,484.22	6,429.86	6,369.17	23.26	24.05	156.35	-532.27	-14.90	695.61	650.04	45.56	15.267	
6,600.00	6,584.22	6,528.16	6,465.81	23.61	24.47	156.97	-550.29	-15.30	712.33	666.06	46.28	15.393	
6,700.00	6,684.22	6,626.47	6,562.45	23.96	24.89	157.56	-568.32	-15.70	729.13	682.14	46.99	15.517	
6,800.00	6,784.22	6,738.42	6,672.60	24.31	25.36	158.19	-586.29	-16.14	745.61	697.77	47.84	15.585	
6,900.00	6,884.22	6,869.10	6,801.96	24.66	25.89	158.74	-606.75	-16.55	758.66	709.83	48.83	15.538	
7,000.00	6,984.22	7,001.23	6,933.46	25.01	26.39	159.10	-619.40	-16.83	767.53	717.78	49.74	15.430	
7,100.00	7,084.22	7,134.24	7,066.30	25.36	26.86	159.29	-626.00	-16.98	772.13	721.55	50.58	15.267	
7,200.00	7,184.22	7,253.17	7,185.22	25.71	27.24	159.31	-627.00	-17.00	772.82	721.52	51.30	15.064	
7,201.35	7,185.57	7,254.52	7,186.57	25.72	27.24	159.31	-627.00	-17.00	772.82	721.51	51.31	15.061	
7,300.00	7,284.22	7,334.32	7,266.37	26.07	27.49	159.28	-627.13	-16.50	773.35	721.40	51.95	14.887	
7,400.00	7,384.22	7,390.20	7,321.99	26.42	27.68	158.97	-628.38	-11.57	778.62	726.18	52.44	14.847	
7,500.00	7,484.22	7,450.00	7,380.66	26.77	27.88	158.29	-631.20	-0.51	789.66	736.82	52.84	14.944	
7,600.00	7,584.22	7,500.00	7,428.59	27.12	28.05	157.46	-634.71	13.25	806.50	753.48	53.01	15.213	
7,700.00	7,684.22	7,550.00	7,475.09	27.48	28.21	156.41	-639.24	31.00	829.32	776.29	53.03	15.638	
7,800.00	7,784.22	7,600.00	7,519.83	27.83	28.38	155.18	-644.75	52.62	858.21	805.29	52.92	16.217	
7,900.00	7,884.22	7,633.33	7,548.49	28.18	28.49	154.26	-648.94	69.09	892.90	840.49	52.41	17.038	
8,000.00	7,984.22	7,671.81	7,580.29	28.53	28.61	153.13	-654.29	90.08	933.47	881.60	51.87	17.995	
8,100.00	8,084.22	7,700.00	7,602.62	28.89	28.71	152.26	-658.54	106.74	979.61	928.54	51.07	19.183	
8,200.00	8,184.22	7,750.00	7,640.06	29.24	28.87	150.65	-666.72	138.83	1,030.94	980.26	50.68	20.342	
8,300.00	8,284.22	7,767.53	7,652.48	29.59	28.93	150.07	-669.78	150.82	1,086.78	1,037.16	49.63	21.900	
8,400.00	8,384.22	7,800.00	7,674.46	29.95	29.03	148.98	-675.68	173.97	1,147.14	1,098.23	48.91	23.454	
8,500.00	8,484.22	7,817.39	7,685.67	30.30	29.09	148.40	-678.96	186.85	1,211.29	1,163.36	47.93	25.272	
8,600.00	8,584.17	7,850.00	7,705.58	30.65	29.21	42.35	-685.34	211.87	1,278.09	1,230.78	47.30	27.018	
8,700.00	8,682.61	7,850.00	7,705.58	30.96	29.21	37.35	-685.34	211.87	1,339.65	1,293.71	45.93	29.164	
8,800.00	8,776.63	7,900.00	7,733.17	31.24	29.39	32.88	-695.63	252.26	1,393.30	1,347.79	45.51	30.613	
8,900.00	8,863.36	7,915.98	7,741.21	31.52	29.46	30.12	-699.05	265.65	1,438.02	1,393.62	44.40	32.389	
9,000.00	8,940.19	7,950.00	7,757.02	31.81	29.60	28.08	-706.48	294.83	1,473.20	1,429.56	43.64	33.756	
9,100.00	9,004.76	7,972.98	7,766.67	32.12	29.71	26.82	-711.64	315.04	1,497.98	1,455.22	42.76	35.032	
9,200.00	9,055.12	8,000.00	7,776.95	32.51	29.84	26.15	-717.81	339.25	1,512.06	1,469.98	42.08	35.931	
9,300.00	9,089.74	8,031.74	7,787.49	32.98	30.01	26.04	-725.20	368.25	1,515.17	1,473.50	41.67	36.359	
9,400.00	9,107.57	8,050.00	7,792.81	33.55	30.12	26.43	-729.51	385.18	1,507.41	1,466.09	41.32	36.482	
9,500.00	9,110.00	8,100.00	7,804.47	34.22	30.44	27.30	-741.52	432.28	1,490.58	1,448.91	41.67	35.772	
9,600.00	9,110.00	8,119.74	7,807.91	35.02	30.57	27.76	-746.32	451.12	1,478.20	1,436.26	41.94	35.246	
9,700.00	9,110.00	8,150.00	7,811.86	35.95	30.80	28.11	-753.73	480.18	1,473.09	1,430.45	42.64	34.547	
9,716.39	9,110.00	8,150.00	7,811.86	36.12	30.80	28.12	-753.73	480.18	1,472.96	1,430.22	42.75	34.456	
9,800.00	9,110.00	8,179.44	7,814.18	37.00	31.03	28.29	-760.98	508.62	1,475.24	1,431.60	43.64	33.806	
9,900.00	9,110.00	8,209.99	7,815.00	38.15	31.28	28.44	-768.52	538.21	1,484.39	1,439.49	44.90	33.059	
10,000.00	9,110.00	8,364.68	7,815.00	39.40	32.77	29.53	-800.62	689.49	1,494.66	1,447.74	46.92	31.854	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com (Slot 1)
Site Error: 0.00 usft
Reference Well: #135H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #135H
TVD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
MD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2:00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #122H - OH - Prelim A													Offset Site Error: 0.00 usft
Survey Program: 0-MWD-HDGM													Offset Well Error: 0.00 usft
Reference	Offset	Semi-Major Axis		Distance		Minimum Separation		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	
10,100.00	9,110.00	8,528.22	7,815.00	40.74	34.63	30.21	-821.13	851.69	1,500.93	1,451.97	48.95	30.659	
10,200.00	9,110.00	8,694.10	7,815.00	42.17	36.76	30.42	-827.68	1,017.39	1,502.90	1,452.02	50.88	29.536	
10,202.09	9,110.00	8,697.58	7,815.00	42.20	36.80	30.42	-827.66	1,020.86	1,502.90	1,451.98	50.92	29.514	
10,300.00	9,110.00	8,809.23	7,815.00	43.67	38.37	30.42	-827.75	1,114.06	1,502.91	1,450.21	52.70	28.520	
10,400.00	9,110.00	8,890.77	7,815.00	45.24	39.58	30.42	-827.79	1,214.06	1,502.91	1,448.63	54.28	27.686	
10,500.00	9,110.00	9,009.23	7,815.00	46.87	41.44	30.42	-827.84	1,314.06	1,502.91	1,446.63	56.28	26.705	
10,600.00	9,110.00	9,090.77	7,815.00	48.55	42.77	30.42	-827.89	1,414.06	1,502.91	1,444.92	57.99	25.916	
10,700.00	9,110.00	9,209.23	7,815.00	50.29	44.78	30.42	-827.94	1,514.06	1,502.91	1,442.78	60.13	24.995	
10,800.00	9,110.00	9,290.77	7,815.00	52.07	46.21	30.42	-827.98	1,614.06	1,502.91	1,440.96	61.95	24.261	
10,900.00	9,110.00	9,409.23	7,815.00	53.89	48.34	30.42	-828.03	1,714.06	1,502.91	1,438.71	64.20	23.410	
11,000.00	9,110.00	9,490.77	7,815.00	55.74	49.85	30.42	-828.08	1,814.06	1,502.91	1,436.80	66.11	22.734	
11,100.00	9,110.00	9,609.23	7,815.00	57.63	52.07	30.42	-828.13	1,914.06	1,502.91	1,434.46	68.45	21.955	
11,200.00	9,110.00	9,690.77	7,815.00	59.55	53.63	30.42	-828.17	2,014.06	1,502.91	1,432.48	70.43	21.338	
11,300.00	9,110.00	9,809.23	7,815.00	61.50	55.94	30.42	-828.22	2,114.06	1,502.91	1,430.05	72.86	20.628	
11,400.00	9,110.00	9,890.77	7,815.00	63.47	57.55	30.42	-828.27	2,214.06	1,502.91	1,428.01	74.90	20.066	
11,500.00	9,110.00	10,009.23	7,815.00	65.46	59.91	30.42	-828.32	2,314.06	1,502.91	1,425.52	77.39	19.421	
11,600.00	9,110.00	10,109.23	7,815.00	67.47	61.93	30.42	-828.36	2,414.06	1,502.91	1,423.22	79.69	18.859	
11,700.00	9,110.00	10,190.77	7,815.00	69.50	63.60	30.42	-828.41	2,514.06	1,502.91	1,421.11	81.80	18.373	
11,800.00	9,110.00	10,309.23	7,815.00	71.55	66.03	30.42	-828.46	2,614.06	1,502.91	1,418.54	84.37	17.813	
11,900.00	9,110.00	10,390.77	7,815.00	73.61	67.72	30.42	-828.51	2,714.06	1,502.91	1,416.39	86.52	17.371	
12,000.00	9,110.00	10,509.23	7,815.00	75.69	70.19	30.42	-828.55	2,814.06	1,502.91	1,413.78	89.13	16.862	
12,100.00	9,110.00	10,590.77	7,815.00	77.78	71.91	30.42	-828.60	2,914.06	1,502.91	1,411.60	91.31	16.460	
12,200.00	9,110.00	10,709.23	7,815.00	79.88	74.41	30.42	-828.65	3,014.06	1,502.91	1,408.96	93.95	15.996	
12,300.00	9,110.00	10,790.77	7,815.00	82.00	76.15	30.42	-828.70	3,114.06	1,502.91	1,406.75	96.16	15.629	
12,400.00	9,110.00	10,909.23	7,815.00	84.12	78.68	30.42	-828.74	3,214.06	1,502.91	1,404.07	98.84	15.206	
12,500.00	9,110.00	10,990.77	7,815.00	86.26	80.42	30.42	-828.79	3,314.06	1,502.91	1,401.84	101.07	14.870	
12,600.00	9,110.00	11,109.23	7,815.00	88.40	82.98	30.42	-828.84	3,414.06	1,502.91	1,399.14	103.77	14.483	
12,700.00	9,110.00	11,190.77	7,815.00	90.55	84.74	30.42	-828.89	3,514.06	1,502.91	1,396.88	106.03	14.175	
12,800.00	9,110.00	11,309.23	7,815.00	92.71	87.31	30.42	-828.94	3,614.06	1,502.91	1,394.16	108.75	13.820	
12,900.00	9,110.00	11,409.23	7,815.00	94.87	89.49	30.42	-828.98	3,714.06	1,502.91	1,391.66	111.25	13.509	
13,000.00	9,110.00	11,490.77	7,815.00	97.04	91.27	30.42	-829.03	3,814.06	1,502.91	1,389.38	113.53	13.238	
13,100.00	9,110.00	11,609.23	7,815.00	99.22	93.86	30.42	-829.08	3,914.06	1,502.91	1,386.63	116.28	12.924	
13,200.00	9,110.00	11,690.77	7,815.00	101.40	95.65	30.42	-829.13	4,014.06	1,502.91	1,384.33	118.58	12.674	
13,300.00	9,110.00	11,809.23	7,815.00	103.59	98.26	30.42	-829.17	4,114.06	1,502.91	1,381.56	121.35	12.385	
13,400.00	9,110.00	11,890.77	7,815.00	105.79	100.06	30.42	-829.22	4,214.06	1,502.91	1,379.26	123.65	12.154	
13,500.00	9,110.00	12,009.23	7,815.00	107.99	102.67	30.42	-829.27	4,314.06	1,502.91	1,376.47	126.44	11.887	
13,600.00	9,110.00	12,090.77	7,815.00	110.19	104.48	30.42	-829.32	4,414.06	1,502.91	1,374.16	128.75	11.673	
13,700.00	9,110.00	12,209.23	7,815.00	112.40	107.11	30.42	-829.36	4,514.06	1,502.91	1,371.36	131.55	11.425	
13,800.00	9,110.00	12,290.77	7,815.00	114.61	108.92	30.42	-829.41	4,614.06	1,502.91	1,369.03	133.88	11.226	
13,900.00	9,110.00	12,409.23	7,815.00	116.83	111.55	30.42	-829.46	4,714.06	1,502.91	1,366.23	136.68	10.996	
14,000.00	9,110.00	12,490.77	7,815.00	119.04	113.37	30.42	-829.51	4,814.06	1,502.91	1,363.89	139.02	10.811	
14,100.00	9,110.00	12,609.23	7,815.00	121.27	116.02	30.42	-829.55	4,914.06	1,502.91	1,361.07	141.84	10.596	
14,200.00	9,110.00	12,709.23	7,815.00	123.49	118.25	30.42	-829.60	5,014.06	1,502.91	1,358.49	144.42	10.407	
14,300.00	9,110.00	12,790.77	7,815.00	125.72	120.08	30.42	-829.65	5,114.06	1,502.91	1,356.14	146.77	10.240	
14,400.00	9,110.00	12,909.23	7,815.00	127.95	122.73	30.42	-829.70	5,214.06	1,502.91	1,353.31	149.60	10.046	
14,500.00	9,110.00	12,990.77	7,815.00	130.19	124.56	30.42	-829.74	5,314.06	1,502.91	1,350.96	151.95	9.891	
14,600.00	9,110.00	13,109.23	7,815.00	132.42	127.22	30.42	-829.79	5,414.06	1,502.91	1,348.12	154.79	9.709	
14,700.00	9,110.00	13,190.77	7,815.00	134.66	129.05	30.42	-829.84	5,514.06	1,502.91	1,345.76	157.15	9.564	
14,800.00	9,110.00	13,309.23	7,815.00	136.90	131.72	30.42	-829.89	5,614.06	1,502.91	1,342.92	159.99	9.394	
14,900.00	9,110.00	13,390.77	7,815.00	139.15	133.55	30.42	-829.93	5,714.06	1,502.91	1,340.55	162.36	9.257	
15,000.00	9,110.00	13,509.23	7,815.00	141.39	136.22	30.42	-829.98	5,814.06	1,502.91	1,337.70	165.21	9.097	
15,100.00	9,110.00	13,590.77	7,815.00	143.64	138.06	30.42	-830.03	5,914.06	1,502.91	1,335.33	167.58	8.968	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference	Offset Datum

Offset Design Leatherneck 3029 Fed Com (Slot 1) - #122H - OH - Prelim A													Offset Site Error: 0.00 usft
Survey Program: 0-MWD-HDGM													Offset Well Error: 0.00 usft
Reference	Offset	Semi-Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	N/S (usft)	E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
15,200.00	9,110.00	13,709.23	7,815.00	145.89	140.73	30.42	-830.08	6,014.06	1,502.91	1,332.47	170.44	8.818	
15,300.00	9,110.00	13,790.77	7,815.00	148.14	142.58	30.42	-830.13	6,114.06	1,502.91	1,330.10	172.81	8.697	
15,400.00	9,110.00	13,909.23	7,815.00	150.39	145.25	30.42	-830.17	6,214.06	1,502.91	1,327.23	175.67	8.555	
15,500.00	9,110.00	14,009.23	7,815.00	152.65	147.52	30.42	-830.22	6,314.06	1,502.91	1,324.61	178.30	8.429	
15,600.00	9,110.00	14,090.77	7,815.00	154.91	149.36	30.42	-830.27	6,414.06	1,502.91	1,322.23	180.68	8.318	
15,700.00	9,110.00	14,209.23	7,815.00	157.16	152.04	30.42	-830.32	6,514.06	1,502.91	1,319.36	183.55	8.188	
15,800.00	9,110.00	14,290.77	7,815.00	159.42	153.89	30.42	-830.36	6,614.06	1,502.91	1,316.98	185.93	8.083	
15,900.00	9,110.00	14,409.23	7,815.00	161.68	156.58	30.42	-830.41	6,714.06	1,502.91	1,314.10	188.80	7.960	
16,000.00	9,110.00	14,490.77	7,815.00	163.95	158.43	30.42	-830.46	6,814.06	1,502.91	1,311.72	191.19	7.861	
16,100.00	9,110.00	14,609.23	7,815.00	166.21	161.12	30.42	-830.51	6,914.06	1,502.91	1,308.84	194.07	7.744	
16,200.00	9,110.00	14,690.77	7,815.00	168.47	162.97	30.42	-830.55	7,014.06	1,502.91	1,306.45	196.46	7.650	
16,300.00	9,110.00	14,809.23	7,815.00	170.74	165.66	30.42	-830.60	7,114.06	1,502.91	1,303.57	199.34	7.539	
16,400.00	9,110.00	14,890.77	7,815.00	173.01	167.51	30.42	-830.65	7,214.06	1,502.91	1,301.17	201.74	7.450	
16,500.00	9,110.00	15,009.23	7,815.00	175.28	170.21	30.42	-830.70	7,314.06	1,502.91	1,298.29	204.62	7.345	
16,600.00	9,110.00	15,090.77	7,815.00	177.54	172.06	30.42	-830.74	7,414.06	1,502.91	1,295.89	207.02	7.260	
16,700.00	9,110.00	15,209.23	7,815.00	179.82	174.76	30.42	-830.79	7,514.06	1,502.91	1,293.01	209.90	7.160	
16,800.00	9,110.00	15,309.23	7,815.00	182.09	177.03	30.42	-830.84	7,614.06	1,502.91	1,290.36	212.55	7.071	
16,900.00	9,110.00	15,390.77	7,815.00	184.36	178.89	30.42	-830.89	7,714.06	1,502.91	1,287.96	214.95	6.992	
17,000.00	9,110.00	15,509.23	7,815.00	186.63	181.59	30.42	-830.93	7,814.06	1,502.91	1,285.07	217.84	6.899	
17,100.00	9,110.00	15,590.77	7,815.00	188.91	183.45	30.42	-830.98	7,914.06	1,502.91	1,282.67	220.24	6.824	
17,200.00	9,110.00	15,709.23	7,815.00	191.18	186.15	30.42	-831.03	8,014.06	1,502.91	1,279.78	223.13	6.736	
17,300.00	9,110.00	15,790.77	7,815.00	193.46	188.01	30.42	-831.08	8,114.06	1,502.91	1,277.37	225.54	6.664	
17,400.00	9,110.00	15,909.23	7,815.00	195.73	190.71	30.42	-831.12	8,214.06	1,502.91	1,274.48	228.43	6.579	
17,500.00	9,110.00	15,990.77	7,815.00	198.01	192.57	30.42	-831.17	8,314.06	1,502.91	1,272.07	230.84	6.511	
17,600.00	9,110.00	16,109.23	7,815.00	200.29	195.27	30.42	-831.22	8,414.06	1,502.91	1,269.17	233.74	6.430	
17,700.00	9,110.00	16,190.77	7,815.00	202.56	197.13	30.42	-831.27	8,514.06	1,502.91	1,266.76	236.14	6.364	
17,800.00	9,110.00	16,309.23	7,815.00	204.84	199.84	30.42	-831.32	8,614.06	1,502.91	1,263.87	239.04	6.287	
17,900.00	9,110.00	16,390.77	7,815.00	207.12	201.70	30.42	-831.36	8,714.06	1,502.91	1,261.46	241.45	6.224	
18,000.00	9,110.00	16,509.23	7,815.00	209.40	204.41	30.42	-831.41	8,814.06	1,502.91	1,258.55	244.36	6.151	
18,100.00	9,110.00	16,609.23	7,815.00	211.69	206.69	30.42	-831.46	8,914.06	1,502.91	1,255.90	247.01	6.084	
18,200.00	9,110.00	16,690.77	7,815.00	213.97	208.56	30.42	-831.51	9,014.06	1,502.91	1,253.48	249.42	6.026	
18,300.00	9,110.00	16,809.23	7,815.00	216.25	211.26	30.42	-831.55	9,114.06	1,502.91	1,250.58	252.33	5.956	
18,400.00	9,110.00	16,890.77	7,815.00	218.53	213.13	30.42	-831.60	9,214.06	1,502.91	1,248.17	254.74	5.900	
18,500.00	9,110.00	17,009.23	7,815.00	220.82	215.84	30.42	-831.65	9,314.06	1,502.91	1,245.26	257.65	5.833	
18,600.00	9,110.00	17,090.77	7,815.00	223.10	217.70	30.42	-831.70	9,414.06	1,502.91	1,242.85	260.06	5.779	
18,700.00	9,110.00	17,209.23	7,815.00	225.38	220.41	30.42	-831.74	9,514.06	1,502.91	1,239.94	262.97	5.715	
18,800.00	9,110.00	17,290.77	7,815.00	227.67	222.28	30.42	-831.79	9,614.06	1,502.91	1,237.52	265.39	5.663	
18,900.00	9,110.00	17,409.23	7,815.00	229.95	224.99	30.42	-831.84	9,714.06	1,502.91	1,234.61	268.29	5.602	
19,000.00	9,110.00	17,490.77	7,815.00	232.24	226.86	30.42	-831.89	9,814.06	1,502.91	1,232.20	270.71	5.552	
19,100.00	9,110.00	17,609.23	7,815.00	234.53	229.57	30.42	-831.93	9,914.06	1,502.91	1,229.29	273.62	5.493	
19,200.00	9,110.00	17,690.77	7,815.00	236.81	231.44	30.42	-831.98	10,014.06	1,502.91	1,226.87	276.04	5.445	
19,237.58	9,110.00	17,728.36	7,815.00	237.36	232.30	30.42	-832.00	10,051.64	1,502.91	1,226.07	276.84	5.429 SF	

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2:00 sigma
Reference Wellbore:	OH	Database:	WellPlanner
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #131H - OH - Prelim A												Offset Site Error	0.00 usft
Survey Program: 0-MWD-HDGM												Offset Well Error	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		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	
0.00	0.00	0.00	0.00	0.00	0.00	-15.26	110.00	-30.00	114.02				
100.00	100.00	100.00	100.00	0.13	0.13	-15.26	110.00	-30.00	114.02	113.76	0.26	444.847	
200.00	200.00	200.00	200.00	0.49	0.49	-15.26	110.00	-30.00	114.02	113.04	0.97	117.151	
300.00	300.00	300.00	300.00	0.85	0.85	-15.26	110.00	-30.00	114.02	112.33	1.69	67.458	
400.00	400.00	400.00	400.00	1.20	1.20	-15.26	110.00	-30.00	114.02	111.61	2.41	47.366	
500.00	500.00	500.00	500.00	1.56	1.56	-15.26	110.00	-30.00	114.02	110.89	3.12	36.496	
600.00	600.00	600.00	600.00	1.92	1.92	-15.26	110.00	-30.00	114.02	110.18	3.84	29.684	
700.00	700.00	700.00	700.00	2.28	2.28	-15.26	110.00	-30.00	114.02	109.46	4.56	25.015	
800.00	800.00	800.00	800.00	2.64	2.64	-15.26	110.00	-30.00	114.02	108.74	5.27	21.615	
900.00	900.00	900.00	900.00	3.00	3.00	-15.26	110.00	-30.00	114.02	108.03	5.99	19.029	
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	-15.26	110.00	-30.00	114.02	107.31	6.71	16.995	
1,100.00	1,099.98	1,100.02	1,099.98	3.71	3.71	57.18	110.00	-30.00	113.06	105.64	7.42	15.237	
1,200.00	1,199.84	1,200.16	1,199.84	4.06	4.07	59.51	110.00	-30.00	110.31	102.18	8.13	13.569	
1,300.00	1,299.45	1,300.55	1,299.45	4.41	4.43	63.63	110.00	-30.00	106.15	97.30	8.84	12.002	
1,400.00	1,398.88	1,401.12	1,398.88	4.77	4.79	69.00	110.00	-30.00	101.83	92.27	9.56	10.647	
1,500.00	1,498.31	1,501.69	1,498.31	5.14	5.15	74.78	110.00	-30.00	98.49	88.20	10.29	9.573	
1,600.00	1,597.74	1,602.26	1,597.74	5.50	5.51	80.89	110.00	-30.00	96.23	85.21	11.02	8.734	
1,700.00	1,697.16	1,702.84	1,697.16	5.87	5.87	87.23	110.00	-30.00	95.11	83.37	11.75	8.097	
1,743.35	1,740.26	1,740.26	1,740.26	6.03	6.01	90.00	110.00	-30.00	95.00	82.96	12.04	7.889 CC	
1,800.00	1,796.59	1,803.41	1,796.59	6.24	6.23	93.62	110.00	-30.00	95.19	82.71	12.48	7.629 ES	
1,900.00	1,896.02	1,903.98	1,896.02	6.62	6.59	99.94	110.00	-30.00	96.46	83.26	13.21	7.304	
2,000.00	1,995.45	1,995.45	1,995.45	6.99	6.92	106.01	110.00	-30.00	98.88	84.98	13.90	7.113	
2,100.00	2,094.87	2,094.39	2,094.38	7.37	7.28	110.86	111.15	-31.04	102.57	87.95	14.62	7.016	
2,200.00	2,194.30	2,193.72	2,193.57	7.75	7.63	113.53	114.85	-34.40	107.26	91.92	15.34	6.992	
2,300.00	2,293.73	2,306.55	2,293.00	8.13	8.03	114.61	120.54	-39.56	112.34	96.23	16.11	6.973	
2,400.00	2,393.16	2,406.70	2,392.54	8.50	8.39	115.52	126.38	-44.86	117.48	100.64	16.84	6.976	
2,500.00	2,492.59	2,506.85	2,492.08	8.88	8.75	116.34	132.22	-50.16	122.64	105.07	17.57	6.979	
2,600.00	2,592.01	2,607.00	2,591.62	9.26	9.11	117.10	138.06	-55.45	127.83	109.52	18.31	6.983	
2,700.00	2,691.44	2,707.15	2,691.16	9.64	9.47	117.80	143.90	-60.75	133.03	114.00	19.04	6.987	
2,800.00	2,790.87	2,807.30	2,790.70	10.03	9.83	118.45	149.74	-66.05	138.26	118.49	19.77	6.992	
2,900.00	2,890.30	2,907.44	2,890.24	10.41	10.19	119.05	155.58	-71.34	143.50	122.99	20.51	6.997	
3,000.00	2,989.72	3,007.59	2,989.78	10.79	10.56	119.61	161.41	-76.64	148.76	127.51	21.25	7.001	
3,100.00	3,089.15	3,107.74	3,089.32	11.17	10.92	120.13	167.25	-81.94	154.03	132.04	21.98	7.006	
3,200.00	3,188.58	3,207.89	3,188.86	11.56	11.29	120.62	173.09	-87.23	159.31	136.59	22.72	7.011	
3,300.00	3,288.01	3,308.04	3,288.40	11.94	11.65	121.07	178.93	-92.53	164.60	141.14	23.46	7.016	
3,400.00	3,387.43	3,408.19	3,387.94	12.32	12.02	121.50	184.77	-97.83	169.90	145.70	24.20	7.021	
3,500.00	3,486.86	3,508.33	3,487.48	12.70	12.38	121.90	190.61	-103.12	175.21	150.27	24.94	7.025	
3,600.00	3,586.29	3,608.48	3,587.02	13.09	12.75	122.27	196.45	-108.42	180.53	154.85	25.68	7.030	
3,700.00	3,685.72	3,708.63	3,686.56	13.47	13.12	122.63	202.29	-113.72	185.85	159.43	26.42	7.035	
3,800.00	3,785.15	3,808.78	3,786.10	13.86	13.48	122.96	208.12	-119.01	191.19	164.03	27.16	7.039	
3,900.00	3,884.60	3,908.92	3,885.65	14.24	13.85	123.24	213.96	-124.31	196.37	168.46	27.90	7.038	
4,000.00	3,984.31	4,009.00	3,985.26	14.61	14.22	122.85	219.81	-129.61	199.97	171.33	28.64	6.982	
4,100.00	4,084.23	4,109.12	4,084.82	14.97	14.59	121.60	225.65	-134.91	201.75	172.37	29.38	6.868	
4,200.00	4,184.22	4,209.39	4,184.25	15.31	14.96	47.87	231.48	-140.20	201.98	171.87	30.11	6.709	
4,203.88	4,188.11	4,205.52	4,188.11	15.32	14.94	47.79	231.71	-140.40	201.98	171.87	30.11	6.709	
4,300.00	4,284.22	4,309.70	4,283.62	15.65	15.33	45.64	237.31	-145.49	202.12	171.28	30.84	6.555	
4,400.00	4,384.22	4,389.99	4,383.00	15.99	15.62	43.42	243.14	-150.77	202.57	171.08	31.49	6.433	
4,500.00	4,484.22	4,489.68	4,482.38	16.33	15.99	41.21	248.97	-156.06	203.33	171.11	32.21	6.312	
4,600.00	4,584.22	4,589.36	4,581.75	16.67	16.36	39.01	254.80	-161.35	204.38	171.45	32.94	6.205	
4,700.00	4,684.22	4,689.05	4,681.13	17.02	16.73	36.85	260.62	-166.64	205.74	172.08	33.66	6.112	
4,800.00	4,784.22	4,788.74	4,780.51	17.36	17.09	34.71	266.45	-171.93	207.39	173.00	34.38	6.032	
4,900.00	4,884.22	4,888.43	4,879.88	17.70	17.46	32.61	272.28	-177.21	209.32	174.22	35.10	5.963	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey/Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #131H - OH - Prelim A														Offset Site Error:
Survey Program: 0-MWD-HDGM														0.00 usft
Reference	Offset	Semi-Major Axis		Distance		Minimum Separation		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		
5,000.00	4,984.22	4,988.12	4,979.26	18.05	17.83	30.55	278.11	-182.50	211.53	175.71	35.82	5.905		
5,100.00	5,084.22	5,087.80	5,078.64	18.39	18.20	28.54	283.94	-187.79	214.01	177.47	36.54	5.856		
5,200.00	5,184.22	5,187.49	5,178.01	18.74	18.57	26.57	289.77	-193.08	216.75	179.49	37.26	5.817		
5,300.00	5,284.22	5,287.18	5,277.39	19.08	18.94	24.66	295.60	-198.37	219.74	181.76	37.98	5.786		
5,400.00	5,384.22	5,386.87	5,376.77	19.43	19.30	22.80	301.43	-203.65	222.96	184.27	38.69	5.763		
5,500.00	5,484.22	5,486.56	5,476.14	19.77	19.67	20.99	307.26	-208.94	226.42	187.01	39.40	5.746		
5,600.00	5,584.22	5,586.24	5,575.52	20.12	20.04	19.24	313.09	-214.23	230.10	189.98	40.12	5.736		
5,700.00	5,684.22	5,685.93	5,674.90	20.47	20.41	17.55	318.92	-219.52	233.98	193.15	40.83	5.731		
5,800.00	5,784.22	5,785.62	5,774.27	20.82	20.78	15.91	324.75	-224.81	238.06	196.52	41.54	5.731		
5,900.00	5,884.22	5,885.31	5,873.65	21.16	21.15	14.33	330.57	-230.09	242.33	200.08	42.25	5.736		
6,000.00	5,984.22	5,984.99	5,973.03	21.51	21.52	12.80	336.40	-235.38	246.78	203.82	42.96	5.744		
6,100.00	6,084.22	6,084.68	6,072.40	21.86	21.89	11.33	342.23	-240.67	251.40	207.73	43.67	5.757		
6,200.00	6,184.22	6,184.37	6,171.78	22.21	22.26	9.91	348.06	-245.96	256.18	211.80	44.38	5.773		
6,300.00	6,284.22	6,284.06	6,271.16	22.56	22.63	8.55	353.89	-251.24	261.11	216.03	45.09	5.791		
6,400.00	6,384.22	6,383.75	6,370.53	22.91	23.00	7.23	359.72	-256.53	266.19	220.39	45.80	5.813		
6,500.00	6,484.22	6,483.43	6,469.91	23.26	23.37	5.97	365.55	-261.82	271.40	224.89	46.50	5.836		
6,600.00	6,584.22	6,583.12	6,569.29	23.61	23.74	4.75	371.38	-267.11	276.73	229.52	47.21	5.862		
6,700.00	6,684.22	6,682.81	6,668.66	23.96	24.11	3.58	377.21	-272.40	282.19	234.27	47.92	5.889		
6,800.00	6,784.22	6,782.50	6,768.04	24.31	24.48	2.46	383.04	-277.68	287.76	239.13	48.63	5.918		
6,900.00	6,884.22	6,889.68	6,875.01	24.66	24.87	1.54	387.98	-282.17	292.23	242.85	49.38	5.918		
7,000.00	6,984.22	6,997.66	6,982.95	25.01	25.25	1.18	389.96	-283.97	294.03	243.92	50.10	5.869		
7,100.00	7,084.22	7,101.07	7,084.22	25.36	25.62	1.17	390.00	-284.00	294.06	243.25	50.81	5.787		
7,200.00	7,184.22	7,201.07	7,184.22	25.71	25.96	1.17	390.00	-284.00	294.06	242.55	51.52	5.708		
7,300.00	7,284.22	7,301.07	7,284.22	26.07	26.31	1.17	390.00	-284.00	294.06	241.84	52.22	5.631		
7,400.00	7,384.22	7,401.07	7,384.22	26.42	26.66	1.17	390.00	-284.00	294.06	241.14	52.92	5.556		
7,500.00	7,484.22	7,501.07	7,484.22	26.77	27.01	1.17	390.00	-284.00	294.06	240.43	53.63	5.483		
7,600.00	7,584.22	7,601.07	7,584.22	27.12	27.36	1.17	390.00	-284.00	294.06	239.73	54.33	5.412		
7,700.00	7,684.22	7,701.07	7,684.22	27.48	27.71	1.17	390.00	-284.00	294.06	239.02	55.04	5.343		
7,800.00	7,784.22	7,801.07	7,784.22	27.83	28.07	1.17	390.00	-284.00	294.06	238.32	55.74	5.275		
7,900.00	7,884.22	7,901.07	7,884.22	28.18	28.42	1.17	390.00	-284.00	294.06	237.61	56.45	5.209		
8,000.00	7,984.22	8,001.07	7,984.22	28.53	28.77	1.17	390.00	-284.00	294.06	236.91	57.15	5.145		
8,100.00	8,084.22	8,101.07	8,084.22	28.89	29.12	1.17	390.00	-284.00	294.06	236.20	57.86	5.082		
8,200.00	8,184.22	8,201.07	8,184.22	29.24	29.47	1.17	390.00	-284.00	294.06	235.49	58.57	5.021		
8,300.00	8,284.22	8,301.07	8,284.22	29.59	29.82	1.17	390.00	-284.00	294.06	234.79	59.27	4.961		
8,400.00	8,384.22	8,401.07	8,384.22	29.95	30.17	1.17	390.00	-284.00	294.06	234.08	59.98	4.903		
8,500.00	8,484.22	8,501.07	8,484.22	30.30	30.53	1.17	390.00	-284.00	294.06	233.37	60.69	4.845		
8,501.31	8,485.53	8,500.24	8,485.53	30.30	30.52	-100.93	390.00	-284.00	294.06	233.37	60.69	4.845		
8,600.00	8,584.17	8,595.33	8,580.57	30.65	30.85	-100.89	390.23	-282.36	294.72	233.35	61.37	4.802		
8,700.00	8,682.61	8,687.54	8,671.56	30.96	31.14	-100.54	392.26	-268.14	300.42	238.45	61.97	4.848		
8,800.00	8,776.63	8,779.36	8,758.71	31.24	31.41	-99.85	396.29	-239.83	311.81	249.30	62.51	4.988		
8,900.00	8,863.36	8,870.59	8,839.68	31.52	31.65	-98.83	402.18	-198.41	328.52	265.50	63.02	5.213		
9,000.00	8,940.19	8,961.18	8,912.51	31.81	31.87	-97.52	409.75	-145.23	350.04	286.50	63.54	5.509		
9,100.00	9,004.76	9,051.23	8,975.61	32.12	32.10	-95.96	418.78	-81.77	375.72	311.61	64.12	5.860		
9,200.00	9,055.12	9,140.97	9,027.76	32.51	32.40	-94.19	429.06	-9.57	404.83	340.02	64.81	6.246		
9,300.00	9,089.74	9,230.84	9,067.93	32.98	32.77	-92.29	440.37	69.91	436.55	370.91	65.64	6.650		
9,400.00	9,107.57	9,321.38	9,095.23	33.55	33.24	-90.31	452.52	155.28	470.02	403.40	66.62	7.055		
9,500.00	9,110.00	9,413.68	9,108.73	34.22	33.79	-89.85	465.37	245.58	503.81	436.06	67.74	7.437		
9,600.00	9,110.00	9,531.28	9,110.00	35.02	34.62	-90.00	480.29	362.19	532.32	462.96	69.36	7.675		
9,700.00	9,110.00	9,668.75	9,110.00	35.95	35.81	-90.00	489.05	499.35	549.41	477.91	71.50	7.684		
9,800.00	9,110.00	9,783.94	9,110.00	37.00	36.97	-90.00	489.77	614.53	555.48	481.78	73.70	7.537		
9,900.00	9,110.00	9,883.93	9,110.00	38.15	38.10	-90.00	489.75	714.52	556.31	480.33	75.98	7.322		
10,000.00	9,110.00	9,983.93	9,110.00	39.40	39.33	-90.00	489.73	814.52	556.34	477.87	78.47	7.090		

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #131H - OH - Prelim A													Offset Site Error
Survey Program: 0-MWD-HDGM													Offset Well Error
Reference	Offset	Semi Major Axis		Distance		Warning		Warning		Warning		Warning	
Measured Vertical Depth (usft)	Measured Vertical Depth (usft)	Reference Depth (usft)	Offset Depth (usft)	Reference Depth (usft)	Offset Depth (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	Warning
10,100.00	9,110.00	10,083.93	9,110.00	40.74	40.66	-90.00	489.72	914.52	556.37	475.22	81.14	6.857	
10,200.00	9,110.00	10,183.93	9,110.00	42.17	42.07	-90.00	489.70	1,014.52	556.39	472.41	83.99	6.625	
10,300.00	9,110.00	10,283.93	9,110.00	43.67	43.56	-90.00	489.68	1,114.52	556.42	469.44	86.98	6.397	
10,400.00	9,110.00	10,383.93	9,110.00	45.24	45.11	-90.00	489.66	1,214.52	556.45	466.34	90.11	6.175	
10,500.00	9,110.00	10,483.93	9,110.00	46.87	46.73	-90.00	489.64	1,314.52	556.48	463.11	93.37	5.960	
10,600.00	9,110.00	10,583.93	9,110.00	48.55	48.40	-90.00	489.62	1,414.52	556.51	459.77	96.74	5.753	
10,700.00	9,110.00	10,683.93	9,110.00	50.29	50.13	-90.00	489.60	1,514.52	556.54	456.33	100.20	5.554	
10,800.00	9,110.00	10,783.93	9,110.00	52.07	51.90	-90.00	489.58	1,614.52	556.57	452.81	103.76	5.364	
10,900.00	9,110.00	10,883.93	9,110.00	53.89	53.71	-90.00	489.57	1,714.52	556.60	449.20	107.40	5.183	
11,000.00	9,110.00	10,983.93	9,110.00	55.74	55.55	-90.00	489.55	1,814.52	556.63	445.52	111.11	5.010	
11,100.00	9,110.00	11,083.93	9,110.00	57.63	57.43	-90.00	489.53	1,914.52	556.65	441.77	114.88	4.845	
11,200.00	9,110.00	11,183.93	9,110.00	59.55	59.34	-90.00	489.51	2,014.52	556.68	437.96	118.72	4.689	
11,300.00	9,110.00	11,283.93	9,110.00	61.50	61.28	-90.00	489.49	2,114.52	556.71	434.10	122.61	4.541	
11,400.00	9,110.00	11,383.93	9,110.00	63.47	63.25	-90.00	489.47	2,214.52	556.74	430.19	126.55	4.399	
11,500.00	9,110.00	11,483.93	9,110.00	65.46	65.23	-90.00	489.45	2,314.52	556.77	426.24	130.53	4.265	
11,600.00	9,110.00	11,583.93	9,110.00	67.47	67.24	-90.00	489.43	2,414.52	556.80	422.25	134.55	4.138	
11,700.00	9,110.00	11,683.93	9,110.00	69.50	69.26	-90.00	489.42	2,514.52	556.83	418.21	138.61	4.017	
11,800.00	9,110.00	11,783.93	9,110.00	71.55	71.31	-90.00	489.40	2,614.52	556.86	414.15	142.71	3.902	
11,900.00	9,110.00	11,883.93	9,110.00	73.61	73.36	-90.00	489.38	2,714.52	556.88	410.05	146.83	3.793	
12,000.00	9,110.00	11,983.93	9,110.00	75.69	75.44	-90.00	489.36	2,814.52	556.91	405.93	150.99	3.688	
12,100.00	9,110.00	12,083.93	9,110.00	77.78	77.52	-90.00	489.34	2,914.52	556.94	401.77	155.17	3.589	
12,200.00	9,110.00	12,183.93	9,110.00	79.88	79.62	-90.00	489.32	3,014.52	556.97	397.60	159.37	3.495	
12,300.00	9,110.00	12,283.93	9,110.00	82.00	81.73	-90.00	489.30	3,114.52	557.00	393.40	163.60	3.405	
12,400.00	9,110.00	12,383.93	9,110.00	84.12	83.85	-90.00	489.28	3,214.52	557.03	389.18	167.85	3.319	
12,500.00	9,110.00	12,483.93	9,110.00	86.26	85.98	-90.00	489.27	3,314.52	557.06	384.95	172.11	3.237	
12,600.00	9,110.00	12,583.93	9,110.00	88.40	88.12	-90.00	489.25	3,414.52	557.09	380.69	176.40	3.158	
12,700.00	9,110.00	12,683.93	9,110.00	90.55	90.27	-90.00	489.23	3,514.52	557.12	376.42	180.70	3.083	
12,800.00	9,110.00	12,783.93	9,110.00	92.71	92.42	-90.00	489.21	3,614.52	557.14	372.13	185.01	3.011	
12,900.00	9,110.00	12,883.93	9,110.00	94.87	94.58	-90.00	489.19	3,714.52	557.17	367.83	189.34	2.943	
13,000.00	9,110.00	12,983.93	9,110.00	97.04	96.75	-90.00	489.17	3,814.52	557.20	363.52	193.69	2.877	
13,100.00	9,110.00	13,083.93	9,110.00	99.22	98.93	-90.00	489.15	3,914.52	557.23	359.19	198.04	2.814	
13,200.00	9,110.00	13,183.93	9,110.00	101.40	101.11	-90.00	489.13	4,014.52	557.26	354.85	202.41	2.753	
13,300.00	9,110.00	13,283.93	9,110.00	103.59	103.30	-90.00	489.11	4,114.52	557.29	350.50	206.79	2.695	
13,400.00	9,110.00	13,383.93	9,110.00	105.79	105.49	-90.00	489.10	4,214.52	557.32	346.14	211.17	2.639	
13,500.00	9,110.00	13,483.93	9,110.00	107.99	107.68	-90.00	489.08	4,314.52	557.35	341.77	215.57	2.585	
13,600.00	9,110.00	13,583.93	9,110.00	110.19	109.89	-90.00	489.06	4,414.52	557.37	337.40	219.98	2.534	
13,700.00	9,110.00	13,683.93	9,110.00	112.40	112.09	-90.00	489.04	4,514.52	557.40	333.01	224.39	2.484	
13,800.00	9,110.00	13,783.93	9,110.00	114.61	114.30	-90.00	489.02	4,614.52	557.43	328.61	228.82	2.436	
13,900.00	9,110.00	13,883.93	9,110.00	116.83	116.52	-90.00	489.00	4,714.52	557.46	324.21	233.25	2.390	
14,000.00	9,110.00	13,983.93	9,110.00	119.04	118.73	-90.00	488.98	4,814.52	557.49	319.80	237.69	2.345	
14,100.00	9,110.00	14,083.93	9,110.00	121.27	120.95	-90.00	488.96	4,914.52	557.52	315.39	242.13	2.303	
14,200.00	9,110.00	14,183.93	9,110.00	123.49	123.18	-90.00	488.95	5,014.52	557.55	310.96	246.58	2.261	
14,300.00	9,110.00	14,283.93	9,110.00	125.72	125.40	-90.00	488.93	5,114.52	557.58	306.54	251.04	2.221	
14,400.00	9,110.00	14,383.93	9,110.00	127.95	127.63	-90.00	488.91	5,214.52	557.61	302.10	255.50	2.182	
14,500.00	9,110.00	14,483.93	9,110.00	130.19	129.87	-90.00	488.89	5,314.52	557.63	297.66	259.97	2.145	
14,600.00	9,110.00	14,583.93	9,110.00	132.42	132.10	-90.00	488.87	5,414.52	557.66	293.22	264.44	2.109	
14,700.00	9,110.00	14,683.93	9,110.00	134.66	134.34	-90.00	488.85	5,514.52	557.69	288.77	268.92	2.074	
14,800.00	9,110.00	14,783.93	9,110.00	136.90	136.58	-90.00	488.83	5,614.52	557.72	284.31	273.41	2.040	
14,900.00	9,110.00	14,883.93	9,110.00	139.15	138.82	-90.00	488.81	5,714.52	557.75	279.86	277.89	2.007	
15,000.00	9,110.00	14,983.93	9,110.00	141.39	141.07	-90.00	488.80	5,814.52	557.78	275.39	282.38	1.975	
15,100.00	9,110.00	15,083.93	9,110.00	143.64	143.31	-90.00	488.78	5,914.52	557.81	270.93	286.88	1.944	
15,200.00	9,110.00	15,183.93	9,110.00	145.89	145.56	-90.00	488.76	6,014.52	557.84	266.46	291.38	1.914	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MDI Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #131H - OH - Prelim A														Offset Site Error:
Survey Program: 0-MWD-HDGM														0.00 usft
Reference	Offset	Semi Major Axis		Distance		Offset Wellbore Centre		Between Centres		Minimum Separation	Separation Factor	Warning		Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	N/S (usft)	E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)			0.00 usft
15,300.00	9,110.00	15,283.93	9,110.00	148.14	147.81	-90.00	488.74	6,114.52	557.86	261.98	295.88	1.885		
15,400.00	9,110.00	15,383.93	9,110.00	150.39	150.07	-90.00	488.72	6,214.52	557.89	257.50	300.39	1.857		
15,500.00	9,110.00	15,483.93	9,110.00	152.65	152.32	-90.00	488.70	6,314.52	557.92	253.02	304.90	1.830		
15,600.00	9,110.00	15,583.93	9,110.00	154.91	154.57	-90.00	488.68	6,414.52	557.95	248.54	309.41	1.803		
15,700.00	9,110.00	15,683.93	9,110.00	157.16	156.83	-90.00	488.66	6,514.52	557.98	244.05	313.93	1.777		
15,800.00	9,110.00	15,783.93	9,110.00	159.42	159.09	-90.00	488.65	6,614.52	558.01	239.56	318.45	1.752		
15,900.00	9,110.00	15,883.93	9,110.00	161.68	161.35	-90.00	488.63	6,714.52	558.04	235.07	322.97	1.728		
16,000.00	9,110.00	15,983.93	9,110.00	163.95	163.61	-90.00	488.61	6,814.52	558.07	230.57	327.49	1.704		
16,100.00	9,110.00	16,083.93	9,110.00	166.21	165.87	-90.00	488.59	6,914.52	558.10	226.08	332.02	1.681		
16,200.00	9,110.00	16,183.93	9,110.00	168.47	168.14	-90.00	488.57	7,014.52	558.12	221.57	336.55	1.658		
16,300.00	9,110.00	16,283.93	9,110.00	170.74	170.40	-90.00	488.55	7,114.52	558.15	217.07	341.08	1.636		
16,400.00	9,110.00	16,383.93	9,110.00	173.01	172.67	-90.00	488.53	7,214.52	558.18	212.57	345.61	1.615		
16,500.00	9,110.00	16,483.93	9,110.00	175.28	174.94	-90.00	488.51	7,314.52	558.21	208.06	350.15	1.594		
16,600.00	9,110.00	16,583.93	9,110.00	177.54	177.20	-90.00	488.50	7,414.52	558.24	203.55	354.69	1.574		
16,700.00	9,110.00	16,683.93	9,110.00	179.82	179.47	-90.00	488.48	7,514.52	558.27	199.04	359.23	1.554		
16,800.00	9,110.00	16,783.93	9,110.00	182.09	181.74	-90.00	488.46	7,614.52	558.30	194.52	363.77	1.535		
16,900.00	9,110.00	16,883.93	9,110.00	184.36	184.02	-90.00	488.44	7,714.52	558.33	190.01	368.32	1.516		
17,000.00	9,110.00	16,983.93	9,110.00	186.63	186.29	-90.00	488.42	7,814.52	558.35	185.49	372.86	1.497 Level 3		
17,100.00	9,110.00	17,083.93	9,110.00	188.91	188.56	-90.00	488.40	7,914.52	558.38	180.97	377.41	1.480 Level 3		
17,200.00	9,110.00	17,183.93	9,110.00	191.18	190.84	-90.00	488.38	8,014.52	558.41	176.45	381.96	1.462 Level 3		
17,300.00	9,110.00	17,283.93	9,110.00	193.46	193.11	-90.00	488.36	8,114.52	558.44	171.93	386.51	1.445 Level 3		
17,400.00	9,110.00	17,383.93	9,110.00	195.73	195.39	-90.00	488.34	8,214.52	558.47	167.41	391.06	1.428 Level 3		
17,500.00	9,110.00	17,483.93	9,110.00	198.01	197.66	-90.00	488.33	8,314.52	558.50	162.88	395.62	1.412 Level 3		
17,600.00	9,110.00	17,583.93	9,110.00	200.29	199.94	-90.00	488.31	8,414.52	558.53	158.35	400.17	1.396 Level 3		
17,700.00	9,110.00	17,683.93	9,110.00	202.56	202.22	-90.00	488.29	8,514.52	558.56	153.83	404.73	1.380 Level 3		
17,800.00	9,110.00	17,783.93	9,110.00	204.84	204.50	-90.00	488.27	8,614.52	558.59	149.30	409.29	1.365 Level 3		
17,900.00	9,110.00	17,883.93	9,110.00	207.12	206.78	-90.00	488.25	8,714.52	558.61	144.77	413.85	1.350 Level 3		
18,000.00	9,110.00	17,983.93	9,110.00	209.40	209.06	-90.00	488.23	8,814.52	558.64	140.23	418.41	1.335 Level 3		
18,100.00	9,110.00	18,083.93	9,110.00	211.69	211.34	-90.00	488.21	8,914.52	558.67	135.70	422.97	1.321 Level 3		
18,200.00	9,110.00	18,183.93	9,110.00	213.97	213.62	-90.00	488.19	9,014.52	558.70	131.17	427.53	1.307 Level 3		
18,300.00	9,110.00	18,283.93	9,110.00	216.25	215.90	-90.00	488.18	9,114.52	558.73	126.63	432.10	1.293 Level 3		
18,400.00	9,110.00	18,383.93	9,110.00	218.53	218.18	-90.00	488.16	9,214.52	558.76	122.09	436.66	1.280 Level 3		
18,500.00	9,110.00	18,483.93	9,110.00	220.82	220.46	-90.00	488.14	9,314.52	558.79	117.56	441.23	1.266 Level 3		
18,600.00	9,110.00	18,583.93	9,110.00	223.10	222.75	-90.00	488.12	9,414.52	558.82	113.02	445.80	1.254 Level 3		
18,700.00	9,110.00	18,683.93	9,110.00	225.38	225.03	-90.00	488.10	9,514.52	558.84	108.48	450.37	1.241 Level 2		
18,800.00	9,110.00	18,783.93	9,110.00	227.67	227.32	-90.00	488.08	9,614.52	558.87	103.94	454.94	1.228 Level 2		
18,900.00	9,110.00	18,883.93	9,110.00	229.95	229.60	-90.00	488.06	9,714.52	558.90	99.39	459.51	1.216 Level 2		
19,000.00	9,110.00	18,983.93	9,110.00	232.24	231.89	-90.00	488.04	9,814.52	558.93	94.85	464.08	1.204 Level 2		
19,100.00	9,110.00	19,083.93	9,110.00	234.53	234.17	-90.00	488.03	9,914.52	558.96	90.31	468.65	1.193 Level 2		
19,200.00	9,110.00	19,183.93	9,110.00	236.81	236.46	-90.00	488.01	10,014.52	558.99	85.76	473.22	1.181 Level 2		
19,201.75	9,110.00	19,185.68	9,110.00	236.84	236.50	-90.00	488.01	10,016.27	558.99	85.70	473.29	1.181 Level 2		
19,237.58	9,110.00	19,219.41	9,110.00	237.36	237.27	-90.00	488.00	10,050.00	559.00	84.42	474.58	1.178 Level 2, SF		

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey/Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2:00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #132H - OH - Prelim A													Offset Site Error:
Survey Program: 0-MWD-HDGM													Offset Well Error:
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		Warning					
Measured Vertical Depth (usft)	Vertical Depth (usft)	Measured Vertical 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	
0.00	0.00	1.00	1.00	0.00	0.00	0.00	110.00	0.00	110.00				
100.00	100.00	101.00	101.00	0.13	0.13	0.00	110.00	0.00	110.00	109.74	0.26	423.252	
200.00	200.00	201.00	201.00	0.49	0.49	0.00	110.00	0.00	110.00	109.02	0.98	112.609	
300.00	300.00	301.00	301.00	0.85	0.85	0.00	110.00	0.00	110.00	108.31	1.69	64.944	
400.00	400.00	401.00	401.00	1.20	1.21	0.00	110.00	0.00	110.00	107.59	2.41	45.629	
500.00	500.00	501.00	501.00	1.56	1.57	0.00	110.00	0.00	110.00	106.87	3.13	35.170	
600.00	600.00	601.00	601.00	1.92	1.92	0.00	110.00	0.00	110.00	106.16	3.84	28.612	
700.00	700.00	701.00	701.00	2.28	2.28	0.00	110.00	0.00	110.00	105.44	4.56	24.115	
800.00	800.00	801.00	801.00	2.64	2.64	0.00	110.00	0.00	110.00	104.72	5.28	20.839	
900.00	900.00	901.00	901.00	3.00	3.00	0.00	110.00	0.00	110.00	104.00	6.00	18.347	
1,000.00	1,000.00	1,001.00	1,001.00	3.35	3.36	0.00	110.00	0.00	110.00	103.29	6.71	16.388	
1,100.00	1,099.98	1,100.98	1,100.98	3.71	3.72	72.56	110.00	0.00	109.46	102.04	7.42	14.745	
1,200.00	1,199.84	1,200.84	1,200.84	4.06	4.07	75.23	110.00	0.00	108.01	99.88	8.13	13.283	
1,300.00	1,299.45	1,300.45	1,300.45	4.41	4.43	79.81	110.00	0.00	106.12	97.28	8.84	11.999	
1,400.00	1,398.88	1,400.12	1,399.88	4.77	4.79	85.54	110.00	0.00	104.75	95.19	9.56	10.956	
1,476.75	1,475.20	1,476.20	1,476.20	5.05	5.06	90.00	110.00	0.00	104.43	94.31	10.11	10.327 CC	
1,500.00	1,498.31	1,500.69	1,499.31	5.14	5.15	91.35	110.00	0.00	104.46	94.17	10.28	10.156 ES	
1,600.00	1,597.74	1,601.26	1,598.74	5.50	5.51	97.15	110.00	0.00	105.25	94.24	11.01	9.559	
1,700.00	1,697.16	1,701.84	1,698.16	5.87	5.87	102.79	110.00	0.00	107.12	95.38	11.74	9.126	
1,800.00	1,796.59	1,802.41	1,797.59	6.24	6.23	108.20	110.00	0.00	109.99	97.53	12.46	8.825	
1,900.00	1,896.02	1,902.98	1,897.02	6.62	6.59	113.29	110.00	0.00	113.80	100.61	13.19	8.628	
2,000.00	1,995.45	1,996.45	1,996.45	6.99	6.93	118.02	110.00	0.00	118.45	104.56	13.89	8.529	
2,100.00	2,094.87	2,099.14	2,099.12	7.37	7.28	123.02	108.32	-0.34	122.57	107.98	14.60	8.397	
2,200.00	2,194.30	2,201.61	2,201.44	7.75	7.61	128.81	103.05	-1.39	125.01	109.73	15.28	8.181	
2,300.00	2,293.73	2,303.46	2,302.90	8.13	7.94	135.57	94.25	-3.14	126.42	110.46	15.96	7.922	
2,400.00	2,393.16	2,404.46	2,403.12	8.50	8.28	143.39	82.05	-5.58	127.70	111.06	16.64	7.676	
2,500.00	2,492.59	2,502.99	2,500.60	8.88	8.61	151.65	67.95	-8.39	130.39	113.07	17.32	7.528	
2,600.00	2,592.01	2,601.16	2,597.70	9.26	8.95	159.42	53.85	-11.20	135.72	117.71	18.01	7.535	
2,700.00	2,691.44	2,700.68	2,694.81	9.64	9.30	166.50	39.76	-14.01	143.40	124.69	18.71	7.663	
2,800.00	2,790.87	2,802.51	2,791.92	10.03	9.66	172.80	25.67	-16.82	153.09	133.66	19.43	7.880	
2,900.00	2,890.30	2,904.35	2,889.03	10.41	10.03	178.31	11.58	-19.63	164.43	144.28	20.15	8.161	
3,000.00	2,989.72	3,006.18	2,986.13	10.79	10.40	-176.92	-2.52	-22.44	177.10	156.22	20.87	8.485	
3,100.00	3,089.15	3,108.02	3,083.24	11.17	10.77	-172.79	-16.61	-25.25	190.83	169.23	21.60	8.834	
3,200.00	3,188.58	3,209.85	3,180.35	11.56	11.15	-169.23	-30.70	-28.06	205.42	183.09	22.34	9.197	
3,300.00	3,288.01	3,288.31	3,277.45	11.94	11.45	-166.14	-44.80	-30.88	220.70	197.71	22.99	9.602	
3,400.00	3,387.43	3,386.48	3,374.56	12.32	11.82	-163.45	-58.89	-33.69	236.52	212.81	23.71	9.975	
3,500.00	3,486.86	3,484.64	3,471.67	12.70	12.19	-161.10	-72.98	-36.50	252.79	228.36	24.44	10.344	
3,600.00	3,586.29	3,582.81	3,568.78	13.09	12.56	-159.04	-87.07	-39.31	269.44	244.27	25.17	10.705	
3,700.00	3,685.72	3,680.97	3,665.88	13.47	12.94	-157.22	-101.17	-42.12	286.38	260.48	25.90	11.057	
3,800.00	3,785.15	3,779.14	3,762.99	13.86	13.32	-155.59	-115.26	-44.93	303.57	276.94	26.63	11.399	
3,900.00	3,884.60	3,877.34	3,860.13	14.24	13.70	-154.19	-129.36	-47.74	320.72	293.36	27.37	11.720	
4,000.00	3,984.31	3,975.84	3,957.58	14.61	14.08	-152.78	-143.50	-50.56	335.53	307.43	28.10	11.942	
4,100.00	4,084.23	4,074.60	4,055.28	14.97	14.46	-151.20	-157.68	-53.39	347.53	318.70	28.82	12.057	
4,200.00	4,184.22	4,173.51	4,153.11	15.31	14.85	-138.89	-171.88	-56.22	356.99	327.45	29.54	12.085	
4,300.00	4,284.22	4,272.43	4,250.97	15.65	15.24	-140.89	-186.08	-59.05	366.16	335.91	30.25	12.104	
4,400.00	4,384.22	4,371.35	4,348.83	15.99	15.63	-142.41	-200.28	-61.89	375.69	344.72	30.97	12.132	
4,500.00	4,484.22	4,470.28	4,446.68	16.33	16.02	-144.04	-214.48	-64.72	385.53	353.85	31.68	12.170	
4,600.00	4,584.22	4,569.20	4,544.54	16.67	16.41	-145.58	-228.68	-67.55	395.67	363.28	32.39	12.216	
4,700.00	4,684.22	4,668.12	4,642.40	17.02	16.80	-147.05	-242.88	-70.39	406.09	372.99	33.10	12.268	
4,800.00	4,784.22	4,767.04	4,740.26	17.36	17.20	-148.45	-257.09	-73.22	416.76	382.94	33.81	12.325	
4,900.00	4,884.22	4,865.97	4,838.11	17.70	17.59	-149.78	-271.29	-76.05	427.66	393.14	34.52	12.387	
5,000.00	4,984.22	4,964.89	4,935.97	18.05	17.98	-151.04	-285.49	-78.88	438.78	403.55	35.24	12.453	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #132H- OH - Prelim A														Offset Site Error:	0.00 usft
Survey Program: 0-MWD-HDGM														Offset Well Error:	0.00 usft
Reference	Offset	Semi-Major Axis		Distance		Warning									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,100.00	5,084.22	5,063.81	5,033.83	18.39	18.38	152.24	-299.69	-81.72	450.11	414.16	35.95	12.522			
5,200.00	5,184.22	5,162.73	5,131.68	18.74	18.77	153.38	-313.89	-84.55	461.61	424.96	36.66	12.593			
5,300.00	5,284.22	5,261.66	5,229.54	19.08	19.17	154.46	-328.09	-87.38	473.30	435.93	37.37	12.666			
5,400.00	5,384.22	5,360.58	5,327.40	19.43	19.57	155.50	-342.30	-90.21	485.14	447.06	38.08	12.741			
5,500.00	5,484.22	5,459.50	5,425.25	19.77	19.97	156.48	-356.50	-93.05	497.13	458.34	38.79	12.817			
5,600.00	5,584.22	5,558.42	5,523.11	20.12	20.36	157.42	-370.70	-95.88	509.26	469.76	39.50	12.893			
5,700.00	5,684.22	5,657.35	5,620.97	20.47	20.76	158.31	-384.90	-98.71	521.52	481.31	40.21	12.970			
5,800.00	5,784.22	5,756.27	5,718.83	20.82	21.16	159.16	-399.10	-101.54	533.90	492.98	40.92	13.048			
5,900.00	5,884.22	5,855.19	5,816.68	21.16	21.56	159.97	-413.30	-104.38	546.39	504.76	41.63	13.125			
6,000.00	5,984.22	5,954.12	5,914.54	21.51	21.96	160.75	-427.50	-107.21	558.99	516.65	42.34	13.202			
6,100.00	6,084.22	6,053.04	6,012.40	21.86	22.36	161.50	-441.71	-110.04	571.68	528.63	43.05	13.279			
6,200.00	6,184.22	6,151.96	6,110.25	22.21	22.76	162.21	-455.91	-112.87	584.46	540.70	43.76	13.355			
6,300.00	6,284.22	6,250.88	6,208.11	22.56	23.16	162.89	-470.11	-115.71	597.33	552.86	44.47	13.431			
6,400.00	6,384.22	6,349.81	6,305.97	22.91	23.56	163.54	-484.31	-118.54	610.28	565.09	45.19	13.506			
6,500.00	6,484.22	6,448.73	6,403.82	23.26	23.96	164.16	-498.51	-121.37	623.30	577.40	45.90	13.580			
6,600.00	6,584.22	6,547.65	6,501.68	23.61	24.37	164.76	-512.71	-124.20	636.40	589.79	46.61	13.653			
6,700.00	6,684.22	6,646.57	6,599.54	23.96	24.77	165.34	-526.92	-127.04	649.56	602.23	47.32	13.726			
6,800.00	6,784.22	6,745.50	6,697.40	24.31	25.17	165.89	-541.12	-129.87	662.78	614.74	48.04	13.798			
6,900.00	6,884.22	6,844.42	6,795.25	24.66	25.57	166.42	-555.32	-132.70	676.06	627.31	48.75	13.868			
7,000.00	6,984.22	6,943.34	6,893.11	25.01	25.98	166.93	-569.52	-135.54	689.39	639.93	49.46	13.938			
7,100.00	7,084.22	7,042.27	6,990.97	25.36	26.38	167.42	-583.72	-138.37	702.78	652.60	50.17	14.007			
7,200.00	7,184.22	7,143.66	7,091.27	25.71	26.79	167.91	-598.26	-141.27	716.20	665.29	50.91	14.068			
7,300.00	7,284.22	7,272.93	7,219.59	26.07	27.30	168.40	-613.51	-144.31	727.28	675.42	51.66	14.023			
7,400.00	7,384.22	7,403.35	7,349.63	26.42	27.79	168.69	-623.13	-146.23	734.22	681.48	52.74	13.921			
7,500.00	7,484.22	7,534.40	7,480.61	26.77	28.24	168.81	-626.94	-146.99	736.96	683.43	53.53	13.766			
7,600.00	7,584.22	7,639.01	7,585.22	27.12	28.56	168.81	-627.00	-147.00	737.01	682.78	54.22	13.592			
7,700.00	7,684.22	7,739.01	7,685.22	27.48	28.87	168.81	-627.00	-147.00	737.01	682.10	54.90	13.424			
7,800.00	7,784.22	7,839.01	7,785.22	27.83	29.19	168.81	-627.00	-147.00	737.01	681.42	55.58	13.259			
7,900.00	7,884.22	7,939.01	7,885.22	28.18	29.50	168.81	-627.00	-147.00	737.01	680.74	56.27	13.098			
8,000.00	7,984.22	8,039.01	7,985.22	28.53	29.81	168.81	-627.00	-147.00	737.01	680.06	56.95	12.941			
8,100.00	8,084.22	8,139.01	8,085.22	28.89	30.13	168.81	-627.00	-147.00	737.01	679.37	57.63	12.788			
8,200.00	8,184.22	8,239.01	8,185.22	29.24	30.44	168.81	-627.00	-147.00	737.01	678.69	58.32	12.637			
8,300.00	8,284.22	8,339.01	8,285.22	29.59	30.76	168.81	-627.00	-147.00	737.01	678.00	59.00	12.491			
8,400.00	8,384.22	8,439.01	8,385.22	29.95	31.08	168.81	-627.00	-147.00	737.01	677.31	59.69	12.347			
8,500.00	8,484.22	8,539.01	8,485.22	30.30	31.40	168.81	-627.00	-147.00	737.01	676.63	60.38	12.206			
8,600.00	8,584.17	8,621.85	8,568.04	30.65	31.66	66.76	-627.21	-146.19	736.80	675.78	61.02	12.075			
8,700.00	8,682.61	8,686.31	8,632.08	30.96	31.87	67.22	-628.96	-139.31	734.87	673.37	61.50	11.949			
8,800.00	8,776.63	8,750.00	8,694.17	31.24	32.08	68.15	-632.43	-125.71	731.04	669.19	61.85	11.819			
8,900.00	8,863.36	8,816.36	8,756.79	31.52	32.28	69.56	-637.82	-104.54	725.60	663.44	62.16	11.674			
9,000.00	8,940.19	8,882.40	8,816.19	31.81	32.48	71.40	-644.93	-76.65	718.97	656.51	62.46	11.510			
9,100.00	9,004.76	8,950.00	8,873.15	32.12	32.66	73.66	-653.91	-41.44	711.74	648.86	62.88	11.318			
9,200.00	9,055.12	9,018.05	8,925.76	32.51	32.84	76.26	-664.55	0.32	704.58	641.09	63.49	11.097			
9,300.00	9,089.74	9,088.49	8,974.44	32.98	33.01	79.15	-677.11	49.59	698.29	633.95	64.35	10.852			
9,400.00	9,107.57	9,161.45	9,017.90	33.55	33.18	82.27	-691.57	106.32	693.71	628.28	65.43	10.603			
9,474.09	9,111.86	9,218.45	9,046.47	34.04	33.32	84.51	-703.75	154.10	692.80	626.47	66.33	10.444			
9,500.00	9,110.00	9,238.53	9,055.34	34.22	33.38	85.39	-708.20	171.55	692.40	625.75	66.65	10.388			
9,600.00	9,110.00	9,325.05	9,086.18	35.02	33.69	87.95	-728.14	249.80	699.06	631.06	68.00	10.280			
9,700.00	9,110.00	9,419.45	9,105.58	35.95	34.17	89.56	-750.94	339.22	712.72	643.19	69.53	10.251			
9,800.00	9,110.00	9,533.37	9,110.00	37.00	34.95	89.92	-778.57	449.54	731.68	660.27	71.41	10.246			
9,900.00	9,110.00	9,694.18	9,110.00	38.15	36.36	89.92	-808.17	607.56	749.28	675.41	73.86	10.144			
10,000.00	9,110.00	9,858.68	9,110.00	39.40	38.09	89.92	-824.60	771.19	759.23	682.62	76.60	9.911			
10,100.00	9,110.00	10,001.62	9,110.00	40.74	39.78	89.92	-827.71	914.06	761.06	681.69	79.37	9.588			

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com (Slot 1)
Site Error: 0.00 usft
Reference Well: #135H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #135H
TVD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
MD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #132H - OH - Prelim A												Offset Site Error
Survey Program: 0-MWD-HDGM												Offset Well Error
Reference	Offset	Semi-Major Axis		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
10,200.00	9,110.00	10,101.62	9,110.00	42.17	41.07	89.92	-827.76	1,014.06	761.06	678.92	82.14	9.266
10,300.00	9,110.00	10,201.62	9,110.00	43.67	42.45	89.92	-827.81	1,114.06	761.06	676.00	85.07	8.947
10,400.00	9,110.00	10,301.62	9,110.00	45.24	43.91	89.92	-827.85	1,214.06	761.06	672.92	88.14	8.635
10,500.00	9,110.00	10,401.62	9,110.00	46.87	45.44	89.92	-827.90	1,314.06	761.06	669.72	91.34	8.332
10,600.00	9,110.00	10,501.62	9,110.00	48.55	47.04	89.92	-827.95	1,414.06	761.06	666.40	94.66	8.040
10,700.00	9,110.00	10,601.62	9,110.00	50.29	48.69	89.92	-827.99	1,514.06	761.06	662.97	98.09	7.759
10,800.00	9,110.00	10,701.62	9,110.00	52.07	50.40	89.92	-828.04	1,614.06	761.06	659.45	101.61	7.490
10,900.00	9,110.00	10,801.62	9,110.00	53.89	52.15	89.92	-828.09	1,714.06	761.06	655.85	105.21	7.234
11,000.00	9,110.00	10,901.62	9,110.00	55.74	53.94	89.92	-828.13	1,814.06	761.06	652.17	108.89	6.989
11,100.00	9,110.00	11,001.62	9,110.00	57.63	55.78	89.92	-828.18	1,914.06	761.06	648.41	112.64	6.756
11,200.00	9,110.00	11,101.62	9,110.00	59.55	57.64	89.92	-828.23	2,014.06	761.06	644.60	116.45	6.535
11,300.00	9,110.00	11,201.62	9,110.00	61.50	59.54	89.92	-828.27	2,114.06	761.05	640.73	120.32	6.325
11,400.00	9,110.00	11,301.62	9,110.00	63.47	61.47	89.92	-828.32	2,214.06	761.05	636.81	124.24	6.125
11,500.00	9,110.00	11,401.62	9,110.00	65.46	63.42	89.92	-828.37	2,314.06	761.05	632.84	128.21	5.936
11,600.00	9,110.00	11,501.62	9,110.00	67.47	65.40	89.92	-828.42	2,414.06	761.05	628.83	132.22	5.756
11,700.00	9,110.00	11,601.62	9,110.00	69.50	67.40	89.92	-828.46	2,514.06	761.05	624.78	136.27	5.585
11,800.00	9,110.00	11,701.62	9,110.00	71.55	69.41	89.92	-828.51	2,614.06	761.05	620.70	140.35	5.423
11,900.00	9,110.00	11,801.62	9,110.00	73.61	71.45	89.92	-828.56	2,714.06	761.05	616.59	144.47	5.268
12,000.00	9,110.00	11,901.62	9,110.00	75.69	73.50	89.92	-828.60	2,814.06	761.05	612.44	148.61	5.121
12,100.00	9,110.00	12,001.62	9,110.00	77.78	75.56	89.92	-828.65	2,914.06	761.05	608.27	152.78	4.981
12,200.00	9,110.00	12,101.62	9,110.00	79.88	77.64	89.92	-828.70	3,014.06	761.05	604.07	156.98	4.848
12,300.00	9,110.00	12,201.62	9,110.00	82.00	79.73	89.92	-828.74	3,114.06	761.05	599.85	161.20	4.721
12,400.00	9,110.00	12,301.62	9,110.00	84.12	81.84	89.92	-828.79	3,214.06	761.05	595.61	165.44	4.600
12,500.00	9,110.00	12,401.62	9,110.00	86.26	83.95	89.92	-828.84	3,314.06	761.05	591.35	169.70	4.485
12,600.00	9,110.00	12,501.62	9,110.00	88.40	86.07	89.92	-828.88	3,414.06	761.05	587.07	173.98	4.374
12,700.00	9,110.00	12,601.62	9,110.00	90.55	88.21	89.92	-828.93	3,514.06	761.04	582.77	178.28	4.269
12,800.00	9,110.00	12,701.62	9,110.00	92.71	90.35	89.92	-828.98	3,614.06	761.04	578.46	182.59	4.168
12,900.00	9,110.00	12,801.62	9,110.00	94.87	92.50	89.92	-829.03	3,714.06	761.04	574.13	186.91	4.072
13,000.00	9,110.00	12,901.62	9,110.00	97.04	94.66	89.92	-829.07	3,814.06	761.04	569.79	191.25	3.979
13,100.00	9,110.00	13,001.62	9,110.00	99.22	96.82	89.92	-829.12	3,914.06	761.04	565.44	195.61	3.891
13,200.00	9,110.00	13,101.62	9,110.00	101.40	98.99	89.92	-829.17	4,014.06	761.04	561.07	199.97	3.806
13,300.00	9,110.00	13,201.62	9,110.00	103.59	101.17	89.92	-829.21	4,114.06	761.04	556.69	204.35	3.724
13,400.00	9,110.00	13,301.62	9,110.00	105.79	103.35	89.92	-829.26	4,214.06	761.04	552.31	208.73	3.646
13,500.00	9,110.00	13,401.62	9,110.00	107.99	105.54	89.92	-829.31	4,314.06	761.04	547.91	213.13	3.571
13,600.00	9,110.00	13,501.62	9,110.00	110.19	107.74	89.92	-829.35	4,414.06	761.04	543.51	217.53	3.498
13,700.00	9,110.00	13,601.62	9,110.00	112.40	109.93	89.92	-829.40	4,514.06	761.04	539.09	221.95	3.429
13,800.00	9,110.00	13,701.62	9,110.00	114.61	112.14	89.92	-829.45	4,614.06	761.04	534.67	226.37	3.362
13,900.00	9,110.00	13,801.62	9,110.00	116.83	114.34	89.92	-829.49	4,714.06	761.04	530.24	230.80	3.297
14,000.00	9,110.00	13,901.62	9,110.00	119.04	116.55	89.92	-829.54	4,814.06	761.04	525.80	235.23	3.235
14,100.00	9,110.00	14,001.62	9,110.00	121.27	118.77	89.92	-829.59	4,914.06	761.04	521.36	239.68	3.175
14,200.00	9,110.00	14,101.62	9,110.00	123.49	120.99	89.92	-829.64	5,014.06	761.03	516.91	244.13	3.117
14,300.00	9,110.00	14,201.62	9,110.00	125.72	123.21	89.92	-829.68	5,114.06	761.03	512.45	248.58	3.061
14,400.00	9,110.00	14,301.62	9,110.00	127.95	125.43	89.92	-829.73	5,214.06	761.03	507.99	253.05	3.007
14,500.00	9,110.00	14,401.62	9,110.00	130.19	127.66	89.92	-829.78	5,314.06	761.03	503.52	257.51	2.955
14,600.00	9,110.00	14,501.62	9,110.00	132.42	129.89	89.92	-829.82	5,414.06	761.03	499.05	261.99	2.905
14,700.00	9,110.00	14,601.62	9,110.00	134.66	132.12	89.92	-829.87	5,514.06	761.03	494.57	266.46	2.856
14,800.00	9,110.00	14,701.62	9,110.00	136.90	134.36	89.92	-829.92	5,614.06	761.03	490.08	270.95	2.809
14,900.00	9,110.00	14,801.62	9,110.00	139.15	136.60	89.92	-829.96	5,714.06	761.03	485.60	275.43	2.763
15,000.00	9,110.00	14,901.62	9,110.00	141.39	138.84	89.92	-830.01	5,814.06	761.03	481.10	279.92	2.719
15,100.00	9,110.00	15,001.62	9,110.00	143.64	141.08	89.92	-830.06	5,914.06	761.03	476.61	284.42	2.676
15,200.00	9,110.00	15,101.62	9,110.00	145.89	143.32	89.92	-830.10	6,014.06	761.03	472.11	288.92	2.634
15,300.00	9,110.00	15,201.62	9,110.00	148.14	145.57	89.92	-830.15	6,114.06	761.03	467.61	293.42	2.594

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

Pro Directional

Anticollision Report

Company: Matador Resources
 Project: Eddy County, NM (NAD27)
 Reference Site: Leatherneck 3029 Fed Com (Slot 1)
 Site Error: 0.00 usft
 Reference Well: #135H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Prelim A

Local Co-ordinate Reference: Well #135H
 TVD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
 MD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: WellPlanner1
 Offset TVD Reference: Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #132H - OH - Prelim A														Offset Site Error: 0.00 usft
Survey Program: 0-MWD-HDGM														Offset Well Error: 0.00 usft
Reference	Offset	Semi-Major Axis		Distance		Minimum Separation		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		
15,400.00	9,110.00	15,301.62	9,110.00	150.39	147.82	89.92	-830.20	6,214.06	761.03	463.10	297.93	2.554		
15,500.00	9,110.00	15,401.62	9,110.00	152.65	150.07	89.92	-830.25	6,314.06	761.03	458.59	302.44	2.516		
15,600.00	9,110.00	15,501.62	9,110.00	154.91	152.32	89.92	-830.29	6,414.06	761.03	454.08	306.95	2.479		
15,700.00	9,110.00	15,601.62	9,110.00	157.16	154.57	89.92	-830.34	6,514.06	761.02	449.56	311.47	2.443		
15,800.00	9,110.00	15,701.62	9,110.00	159.42	156.83	89.92	-830.39	6,614.06	761.02	445.04	315.98	2.408		
15,900.00	9,110.00	15,801.62	9,110.00	161.68	159.09	89.92	-830.43	6,714.06	761.02	440.52	320.51	2.374		
16,000.00	9,110.00	15,901.62	9,110.00	163.95	161.34	89.92	-830.48	6,814.06	761.02	435.99	325.03	2.341		
16,100.00	9,110.00	16,001.62	9,110.00	166.21	163.60	89.92	-830.53	6,914.06	761.02	431.46	329.56	2.309		
16,200.00	9,110.00	16,101.62	9,110.00	168.47	165.87	89.92	-830.57	7,014.06	761.02	426.93	334.09	2.278		
16,300.00	9,110.00	16,201.62	9,110.00	170.74	168.13	89.92	-830.62	7,114.06	761.02	422.40	338.62	2.247		
16,400.00	9,110.00	16,301.62	9,110.00	173.01	170.39	89.92	-830.67	7,214.06	761.02	417.87	343.15	2.218		
16,500.00	9,110.00	16,401.62	9,110.00	175.28	172.66	89.92	-830.71	7,314.06	761.02	413.33	347.69	2.189		
16,600.00	9,110.00	16,501.62	9,110.00	177.54	174.92	89.92	-830.76	7,414.06	761.02	408.79	352.23	2.161		
16,700.00	9,110.00	16,601.62	9,110.00	179.82	177.19	89.92	-830.81	7,514.06	761.02	404.25	356.77	2.133		
16,800.00	9,110.00	16,701.62	9,110.00	182.09	179.46	89.92	-830.86	7,614.06	761.02	399.71	361.31	2.106		
16,900.00	9,110.00	16,801.62	9,110.00	184.36	181.73	89.92	-830.90	7,714.06	761.02	395.16	365.85	2.080		
17,000.00	9,110.00	16,901.62	9,110.00	186.63	184.00	89.92	-830.95	7,814.06	761.02	390.62	370.40	2.055		
17,100.00	9,110.00	17,001.62	9,110.00	188.91	186.27	89.92	-831.00	7,914.06	761.01	386.07	374.95	2.030		
17,200.00	9,110.00	17,101.62	9,110.00	191.18	188.54	89.92	-831.04	8,014.06	761.01	381.52	379.50	2.005		
17,300.00	9,110.00	17,201.62	9,110.00	193.46	190.81	89.92	-831.09	8,114.06	761.01	376.97	384.05	1.982		
17,400.00	9,110.00	17,301.62	9,110.00	195.73	193.09	89.92	-831.14	8,214.06	761.01	372.41	388.60	1.958		
17,500.00	9,110.00	17,401.62	9,110.00	198.01	195.36	89.92	-831.18	8,314.06	761.01	367.86	393.16	1.936		
17,600.00	9,110.00	17,501.62	9,110.00	200.29	197.64	89.92	-831.23	8,414.06	761.01	363.30	397.71	1.913		
17,700.00	9,110.00	17,601.62	9,110.00	202.56	199.91	89.92	-831.28	8,514.06	761.01	358.74	402.27	1.892		
17,800.00	9,110.00	17,701.62	9,110.00	204.84	202.19	89.92	-831.32	8,614.06	761.01	354.18	406.83	1.871		
17,900.00	9,110.00	17,801.62	9,110.00	207.12	204.47	89.92	-831.37	8,714.06	761.01	349.62	411.39	1.850		
18,000.00	9,110.00	17,901.62	9,110.00	209.40	206.75	89.92	-831.42	8,814.06	761.01	345.06	415.95	1.830		
18,100.00	9,110.00	18,001.62	9,110.00	211.69	209.03	89.92	-831.47	8,914.06	761.01	340.50	420.51	1.810		
18,200.00	9,110.00	18,101.62	9,110.00	213.97	211.31	89.92	-831.51	9,014.06	761.01	335.93	425.07	1.790		
18,300.00	9,110.00	18,201.62	9,110.00	216.25	213.59	89.92	-831.56	9,114.06	761.01	331.37	429.64	1.771		
18,400.00	9,110.00	18,301.62	9,110.00	218.53	215.87	89.92	-831.61	9,214.06	761.01	326.80	434.20	1.753		
18,500.00	9,110.00	18,401.62	9,110.00	220.82	218.15	89.92	-831.65	9,314.06	761.01	322.24	438.77	1.734		
18,600.00	9,110.00	18,501.62	9,110.00	223.10	220.43	89.92	-831.70	9,414.06	761.00	317.67	443.34	1.717		
18,700.00	9,110.00	18,601.62	9,110.00	225.38	222.71	89.92	-831.75	9,514.06	761.00	313.10	447.91	1.699		
18,800.00	9,110.00	18,701.62	9,110.00	227.67	225.00	89.92	-831.79	9,614.06	761.00	308.53	452.48	1.682		
18,900.00	9,110.00	18,801.62	9,110.00	229.95	227.28	89.92	-831.84	9,714.06	761.00	303.95	457.05	1.665		
19,000.00	9,110.00	18,901.62	9,110.00	232.24	229.56	89.92	-831.89	9,814.06	761.00	299.38	461.62	1.649		
19,100.00	9,110.00	19,001.62	9,110.00	234.53	231.85	89.92	-831.93	9,914.06	761.00	294.81	466.19	1.632		
19,200.00	9,110.00	19,101.62	9,110.00	236.81	234.13	89.92	-831.98	10,014.06	761.00	290.23	470.77	1.617		
19,237.58	9,110.00	19,139.20	9,110.00	237.36	234.99	89.92	-832.00	10,051.64	761.00	288.83	472.17	1.612 SF		

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

Pro Directional

Anticollision Report

Company: Matador Resources
 Project: Eddy County, NM (NAD27)
 Reference Site: Leatherneck 3029 Fed Com (Slot 1)
 Site Error: 0.00 usft
 Reference Well: #135H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Prelim A

Local Co-ordinate Reference: Well #135H
 TVD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
 MD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: WellPlanner1
 Offset TVD Reference: Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #205H - OH - Prelim A											Offset Site Error:
Survey Program: 0-MWD-HDGM											Offset Well Error:
Reference	Offset	Semi Major Axis		Distance		Between Centres		Between Ellipses	Minimum Separation	Separation Factor	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)	(usft)	(usft)	
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-30.00	30.00		
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-30.00	30.00	29.74	0.26 117.047
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-30.00	30.00	29.03	0.97 30.825
300.00	300.00	300.00	300.00	0.85	0.85	-90.00	0.00	-30.00	30.00	28.31	1.69 17.749
400.00	400.00	400.00	400.00	1.20	1.20	-90.00	0.00	-30.00	30.00	27.59	2.41 12.463
500.00	500.00	500.00	500.00	1.56	1.56	-90.00	0.00	-30.00	30.00	26.88	3.12 9.603
600.00	600.00	600.00	600.00	1.92	1.92	-90.00	0.00	-30.00	30.00	26.16	3.84 7.810
700.00	700.00	700.00	700.00	2.28	2.28	-90.00	0.00	-30.00	30.00	25.44	4.56 6.582
800.00	800.00	800.00	800.00	2.64	2.64	-90.00	0.00	-30.00	30.00	24.73	5.27 5.687 CC
900.00	900.00	899.13	899.11	3.00	2.99	-88.12	1.03	-31.37	31.40	25.41	5.98 5.247
1,000.00	1,000.00	998.03	997.87	3.35	3.34	-83.38	4.12	-35.46	35.76	29.08	6.69 5.349
1,100.00	1,099.98	1,096.60	1,096.07	3.71	3.69	-6.22	9.23	-42.25	41.70	34.32	7.37 5.655
1,200.00	1,199.84	1,195.23	1,193.98	4.06	4.05	-0.88	16.34	-51.68	47.58	39.53	8.05 5.910
1,300.00	1,299.45	1,304.93	1,292.97	4.41	4.46	3.85	24.18	-62.08	51.37	42.58	8.79 5.844
1,400.00	1,398.88	1,405.04	1,392.02	4.77	4.84	8.20	32.03	-72.48	53.50	44.00	9.50 5.632
1,500.00	1,498.31	1,505.14	1,491.06	5.14	5.22	12.19	39.87	-82.89	55.91	45.70	10.21 5.473
1,600.00	1,597.74	1,605.24	1,590.10	5.50	5.60	15.84	47.72	-93.30	58.57	47.63	10.94 5.356
1,700.00	1,697.16	1,705.34	1,689.15	5.87	5.98	19.16	55.56	-103.70	61.45	49.78	11.66 5.269
1,800.00	1,796.59	1,805.44	1,788.19	6.24	6.37	22.17	63.40	-114.11	64.51	52.12	12.39 5.206
1,900.00	1,896.02	1,905.54	1,887.24	6.62	6.76	24.91	71.25	-124.51	67.73	54.61	13.12 5.161
2,000.00	1,895.45	1,904.35	1,886.28	6.99	7.10	27.39	79.09	-134.92	71.10	57.28	13.82 5.144
2,100.00	2,094.87	2,105.75	2,085.33	7.37	7.54	29.64	86.94	-145.33	74.59	59.98	14.60 5.107
2,200.00	2,194.30	2,205.85	2,184.37	7.75	7.93	31.69	94.78	-155.73	78.18	62.83	15.35 5.094
2,300.00	2,293.73	2,305.95	2,283.42	8.13	8.32	33.56	102.63	-166.14	81.86	65.76	16.10 5.086
2,400.00	2,393.16	2,406.05	2,382.46	8.50	8.72	35.26	110.47	-176.54	85.62	68.78	16.84 5.083
2,500.00	2,492.59	2,506.16	2,481.51	8.88	9.11	36.82	118.32	-186.95	89.45	71.86	17.60 5.084
2,600.00	2,592.01	2,606.26	2,580.55	9.26	9.50	38.25	126.16	-197.36	93.35	74.99	18.35 5.087
2,700.00	2,691.44	2,706.36	2,679.59	9.64	9.90	39.57	134.00	-207.76	97.29	78.18	19.11 5.092
2,800.00	2,790.87	2,806.46	2,778.64	10.03	10.29	40.78	141.85	-218.17	101.28	81.42	19.86 5.099
2,900.00	2,890.30	2,893.44	2,877.68	10.41	10.64	41.90	149.69	-228.57	105.32	84.75	20.57 5.119
3,000.00	2,989.72	2,993.34	2,976.73	10.79	11.03	42.94	157.54	-238.98	109.39	88.06	21.33 5.128
3,100.00	3,089.15	3,106.77	3,075.77	11.17	11.48	43.90	165.38	-249.39	113.50	91.35	22.14 5.126
3,200.00	3,188.58	3,206.87	3,174.82	11.56	11.87	44.80	173.23	-259.79	117.63	94.73	22.90 5.136
3,300.00	3,288.01	3,293.03	3,273.86	11.94	12.22	45.63	181.07	-270.20	121.79	98.18	23.61 5.158
3,400.00	3,387.43	3,396.83	3,376.99	12.32	12.62	46.82	188.15	-279.59	124.46	100.04	24.41 5.098
3,500.00	3,486.86	3,500.68	3,480.52	12.70	13.00	48.82	192.98	-285.99	124.02	98.82	25.20 4.922
3,600.00	3,586.29	3,604.21	3,583.96	13.09	13.37	51.77	195.54	-289.39	120.68	94.71	25.97 4.647
3,700.00	3,685.72	3,705.98	3,685.72	13.47	13.72	55.83	196.00	-290.00	114.95	88.21	26.75 4.298
3,800.00	3,785.15	3,805.40	3,785.15	13.86	14.05	60.45	196.00	-290.00	109.29	81.74	27.55 3.967
3,900.00	3,884.60	3,904.86	3,884.60	14.24	14.38	65.35	196.00	-290.00	104.53	76.18	28.34 3.688
4,000.00	3,984.31	4,004.57	3,984.31	14.61	14.72	69.15	196.00	-290.00	101.61	72.50	29.11 3.490
4,100.00	4,084.23	4,104.49	4,084.23	14.97	15.06	71.28	196.00	-290.00	100.24	70.40	29.84 3.359
4,199.98	4,184.20	4,204.45	4,184.20	15.31	15.40	0.21	196.00	-290.00	99.88	69.34	30.54 3.271
4,200.00	4,184.22	4,204.48	4,184.22	15.31	15.40	0.00	196.00	-290.00	100.00	69.47	30.53 3.275
4,300.00	4,284.22	4,304.48	4,284.22	15.65	15.74	0.00	196.00	-290.00	100.00	68.78	31.22 3.203
4,400.00	4,384.22	4,404.48	4,384.22	15.99	16.08	0.00	196.00	-290.00	100.00	68.10	31.90 3.135
4,500.00	4,484.22	4,504.48	4,484.22	16.33	16.42	0.00	196.00	-290.00	100.00	67.41	32.59 3.069
4,600.00	4,584.22	4,604.48	4,584.22	16.67	16.77	0.00	196.00	-290.00	100.00	66.72	33.28 3.005
4,700.00	4,684.22	4,704.48	4,684.22	17.02	17.11	0.00	196.00	-290.00	100.00	66.04	33.96 2.944
4,800.00	4,784.22	4,804.48	4,784.22	17.36	17.45	0.00	196.00	-290.00	100.00	65.35	34.65 2.886
4,900.00	4,884.22	4,904.48	4,884.22	17.70	17.80	0.00	196.00	-290.00	100.00	64.65	35.35 2.829
5,000.00	4,984.22	5,004.48	4,984.22	18.05	18.14	0.00	196.00	-290.00	100.00	63.96	36.04 2.775

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #205H - OH - Prelim A														Offset Site Error:
Survey Program: 0-MWD-HDGM														Offset Well Error:
Reference	Offset	Semi Major Axis		Highside Toolface		Offset Wellbore Centre		Distance		Minimum	Separation	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)	Separation (usft)	Factor			
5,100.00	5,084.22	5,104.48	5,084.22	18.39	18.49	196.00	-290.00	100.00	63.27	36.73	2.723			
5,200.00	5,184.22	5,204.48	5,184.22	18.74	18.84	196.00	-290.00	100.00	62.58	37.42	2.672			
5,300.00	5,284.22	5,304.48	5,284.22	19.08	19.18	196.00	-290.00	100.00	61.88	38.12	2.623			
5,400.00	5,384.22	5,404.48	5,384.22	19.43	19.53	196.00	-290.00	100.00	61.19	38.81	2.576			
5,500.00	5,484.22	5,504.48	5,484.22	19.77	19.88	196.00	-290.00	100.00	60.49	39.51	2.531			
5,600.00	5,584.22	5,604.48	5,584.22	20.12	20.22	196.00	-290.00	100.00	59.79	40.21	2.487			
5,700.00	5,684.22	5,704.48	5,684.22	20.47	20.57	196.00	-290.00	100.00	59.09	40.91	2.445			
5,800.00	5,784.22	5,804.48	5,784.22	20.82	20.92	196.00	-290.00	100.00	58.40	41.60	2.404			
5,900.00	5,884.22	5,904.48	5,884.22	21.16	21.27	196.00	-290.00	100.00	57.70	42.30	2.364			
6,000.00	5,984.22	6,004.48	5,984.22	21.51	21.62	196.00	-290.00	100.00	57.00	43.00	2.325			
6,100.00	6,084.22	6,104.48	6,084.22	21.86	21.97	196.00	-290.00	100.00	56.30	43.70	2.288			
6,200.00	6,184.22	6,204.48	6,184.22	22.21	22.32	196.00	-290.00	100.00	55.60	44.40	2.252			
6,300.00	6,284.22	6,304.48	6,284.22	22.56	22.67	196.00	-290.00	100.00	54.90	45.10	2.217			
6,400.00	6,384.22	6,404.48	6,384.22	22.91	23.02	196.00	-290.00	100.00	54.19	45.81	2.183			
6,500.00	6,484.22	6,504.48	6,484.22	23.26	23.37	196.00	-290.00	100.00	53.49	46.51	2.150			
6,600.00	6,584.22	6,604.48	6,584.22	23.61	23.72	196.00	-290.00	100.00	52.79	47.21	2.118			
6,700.00	6,684.22	6,704.48	6,684.22	23.96	24.07	196.00	-290.00	100.00	52.09	47.91	2.087			
6,800.00	6,784.22	6,804.48	6,784.22	24.31	24.42	196.00	-290.00	100.00	51.38	48.62	2.057			
6,900.00	6,884.22	6,904.48	6,884.22	24.66	24.77	196.00	-290.00	100.00	50.68	49.32	2.028			
7,000.00	6,984.22	7,004.48	6,984.22	25.01	25.12	196.00	-290.00	100.00	49.97	50.03	1.999			
7,100.00	7,084.22	7,104.48	7,084.22	25.36	25.48	196.00	-290.00	100.00	49.27	50.73	1.971			
7,200.00	7,184.22	7,204.48	7,184.22	25.71	25.83	196.00	-290.00	100.00	48.57	51.43	1.944			
7,300.00	7,284.22	7,304.48	7,284.22	26.07	26.18	196.00	-290.00	100.00	47.86	52.14	1.918			
7,400.00	7,384.22	7,404.48	7,384.22	26.42	26.53	196.00	-290.00	100.00	47.15	52.85	1.892			
7,500.00	7,484.22	7,504.48	7,484.22	26.77	26.89	196.00	-290.00	100.00	46.45	53.55	1.867			
7,600.00	7,584.22	7,604.48	7,584.22	27.12	27.24	196.00	-290.00	100.00	45.74	54.26	1.843			
7,700.00	7,684.22	7,704.48	7,684.22	27.48	27.59	196.00	-290.00	100.00	45.04	54.96	1.819			
7,800.00	7,784.22	7,804.48	7,784.22	27.83	27.94	196.00	-290.00	100.00	44.33	55.67	1.796			
7,900.00	7,884.22	7,904.48	7,884.22	28.18	28.30	196.00	-290.00	100.00	43.62	56.38	1.774			
8,000.00	7,984.22	8,004.48	7,984.22	28.53	28.65	196.00	-290.00	100.00	42.92	57.08	1.752			
8,100.00	8,084.22	8,104.48	8,084.22	28.89	29.00	196.00	-290.00	100.00	42.21	57.79	1.730			
8,200.00	8,184.22	8,204.48	8,184.22	29.24	29.36	196.00	-290.00	100.00	41.50	58.50	1.709			
8,300.00	8,284.22	8,304.48	8,284.22	29.59	29.71	196.00	-290.00	100.00	40.79	59.21	1.689			
8,400.00	8,384.22	8,404.48	8,384.22	29.95	30.06	196.00	-290.00	100.00	40.08	59.92	1.669			
8,500.00	8,484.22	8,504.48	8,484.22	30.30	30.42	196.00	-290.00	100.00	39.38	60.62	1.650			
8,503.51	8,487.73	8,507.98	8,487.73	30.31	30.43	196.00	-290.00	100.00	39.35	60.65	1.649			
8,600.00	8,584.17	8,604.43	8,584.17	30.65	30.77	196.00	-290.00	100.42	39.11	61.32	1.638			
8,700.00	8,682.61	8,702.92	8,682.66	30.96	31.12	196.00	-290.00	105.55	43.65	61.90	1.705			
8,800.00	8,776.63	8,811.45	8,790.54	31.24	31.47	192.87	-280.12	116.39	54.46	61.93	1.879			
8,900.00	8,863.36	8,925.72	8,899.84	31.52	31.81	182.99	-249.00	128.56	67.94	60.61	2.121			
9,000.00	8,940.19	9,045.84	9,005.37	31.81	32.14	165.78	-194.73	140.18	82.71	57.47	2.439			
9,100.00	9,004.76	9,171.47	9,100.51	32.12	32.49	141.09	-116.91	149.63	97.09	52.54	2.848			
9,200.00	9,055.12	9,301.64	9,177.91	32.51	32.92	109.55	-17.47	155.59	109.10	46.49	3.347			
9,300.00	9,089.74	9,434.78	9,230.68	32.98	33.50	72.69	98.73	157.09	116.33	40.76	3.854			
9,400.00	9,107.57	9,568.81	9,254.02	33.55	34.24	32.88	224.23	153.59	116.15	37.44	4.103			
9,500.00	9,110.00	9,675.41	9,255.00	34.22	34.97	1.99	326.24	149.58	112.96	36.62	4.084			
9,600.00	9,110.00	9,773.40	9,255.00	35.02	35.77	-21.61	421.33	147.76	111.77	35.99	4.106			
9,700.00	9,110.00	9,871.80	9,255.00	35.95	36.69	-40.37	517.91	146.38	110.78	35.60	4.112			
9,800.00	9,110.00	9,970.62	9,255.00	37.00	37.74	-54.18	615.75	145.46	109.93	35.54	4.093			
9,900.00	9,110.00	10,069.91	9,255.00	38.15	38.88	-62.93	714.65	145.05	109.14	35.90	4.040			
10,000.00	9,110.00	10,169.76	9,255.00	39.40	40.12	-66.55	814.42	145.00	108.41	36.59	3.963			
10,007.03	9,110.00	10,176.79	9,255.00	39.49	40.21	-66.61	821.45	145.00	108.36	36.64	3.957			

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com (Slot 1)
Site Error: 0.00 usft
Reference Well: #135H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #135H
TVD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
MD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #205H - OH - Prelim A													Offset Site Error: 0.00 usft
Survey Program: 0-MWD-HDGM													Offset Well Error: 0.00 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	Warning
10,007.04	9,110.00	10,176.81	9,255.00	39.49	40.21	180.00	-66.61	821.46	145.00	108.36	36.64	3.957	
10,100.00	9,110.00	10,269.76	9,255.00	40.74	41.44	179.99	-66.68	914.42	145.00	107.68	37.32	3.885	
10,200.00	9,110.00	10,369.76	9,255.00	42.17	42.85	179.99	-66.73	1,014.42	145.00	106.90	38.10	3.806	
10,300.00	9,110.00	10,469.76	9,255.00	43.67	44.33	179.99	-66.78	1,114.42	145.00	106.07	38.93	3.725	
10,400.00	9,110.00	10,569.76	9,255.00	45.24	45.88	179.99	-66.82	1,214.42	145.00	105.20	39.80	3.643	
10,500.00	9,110.00	10,669.76	9,255.00	46.87	47.49	179.99	-66.87	1,314.42	145.00	104.29	40.71	3.561	
10,600.00	9,110.00	10,769.76	9,255.00	48.55	49.15	179.99	-66.92	1,414.42	145.00	103.33	41.67	3.480	
10,700.00	9,110.00	10,869.76	9,255.00	50.29	50.87	179.99	-66.97	1,514.42	145.00	102.34	42.66	3.399	
10,800.00	9,110.00	10,969.76	9,255.00	52.07	52.63	179.99	-67.01	1,614.42	145.00	101.32	43.68	3.320	
10,900.00	9,110.00	11,069.76	9,255.00	53.89	54.44	179.99	-67.06	1,714.42	145.00	100.27	44.73	3.241	
11,000.00	9,110.00	11,169.76	9,255.00	55.74	56.28	179.99	-67.11	1,814.42	145.00	99.18	45.82	3.165	
11,100.00	9,110.00	11,269.76	9,255.00	57.63	58.15	179.99	-67.16	1,914.42	145.00	98.07	46.93	3.090	
11,200.00	9,110.00	11,369.76	9,255.00	59.55	60.06	179.99	-67.20	2,014.42	145.00	96.93	48.07	3.017	
11,300.00	9,110.00	11,469.76	9,255.00	61.50	61.99	179.99	-67.25	2,114.42	145.00	95.77	49.23	2.945	
11,400.00	9,110.00	11,569.76	9,255.00	63.47	63.95	179.99	-67.30	2,214.42	145.00	94.59	50.41	2.876	
11,500.00	9,110.00	11,669.76	9,255.00	65.46	65.93	179.99	-67.34	2,314.42	145.00	93.38	51.62	2.809	
11,600.00	9,110.00	11,769.76	9,255.00	67.47	67.93	179.99	-67.39	2,414.42	145.00	92.16	52.84	2.744	
11,700.00	9,110.00	11,869.76	9,255.00	69.50	69.95	179.99	-67.44	2,514.42	145.00	90.92	54.08	2.681	
11,800.00	9,110.00	11,969.76	9,255.00	71.55	71.99	179.99	-67.49	2,614.42	145.00	89.66	55.34	2.620	
11,900.00	9,110.00	12,069.76	9,255.00	73.61	74.04	179.99	-67.53	2,714.42	145.00	88.39	56.61	2.561	
12,000.00	9,110.00	12,169.76	9,255.00	75.69	76.11	179.99	-67.58	2,814.42	145.00	87.10	57.90	2.504	
12,100.00	9,110.00	12,269.76	9,255.00	77.78	78.19	179.99	-67.63	2,914.42	145.00	85.80	59.20	2.449	
12,200.00	9,110.00	12,369.76	9,255.00	79.88	80.28	179.99	-67.67	3,014.42	145.00	84.48	60.52	2.396	
12,300.00	9,110.00	12,469.76	9,255.00	82.00	82.39	179.99	-67.72	3,114.42	145.00	83.16	61.84	2.345	
12,400.00	9,110.00	12,569.76	9,255.00	84.12	84.51	179.99	-67.77	3,214.42	145.00	81.82	63.18	2.295	
12,500.00	9,110.00	12,669.76	9,255.00	86.26	86.63	179.99	-67.82	3,314.42	145.00	80.47	64.53	2.247	
12,600.00	9,110.00	12,769.76	9,255.00	88.40	88.77	179.99	-67.86	3,414.42	145.00	79.11	65.89	2.201	
12,700.00	9,110.00	12,869.76	9,255.00	90.55	90.91	179.99	-67.91	3,514.42	145.00	77.75	67.25	2.156	
12,800.00	9,110.00	12,969.76	9,255.00	92.71	93.06	179.99	-67.96	3,614.42	145.00	76.37	68.63	2.113	
12,900.00	9,110.00	13,069.76	9,255.00	94.87	95.22	179.99	-68.01	3,714.42	145.00	74.99	70.01	2.071	
13,000.00	9,110.00	13,169.76	9,255.00	97.04	97.39	179.99	-68.05	3,814.42	145.00	73.60	71.40	2.031	
13,100.00	9,110.00	13,269.76	9,255.00	99.22	99.56	179.99	-68.10	3,914.42	145.00	72.20	72.80	1.992	
13,200.00	9,110.00	13,369.76	9,255.00	101.40	101.74	179.99	-68.15	4,014.42	145.00	70.79	74.21	1.954	
13,300.00	9,110.00	13,469.76	9,255.00	103.59	103.92	179.99	-68.19	4,114.42	145.00	69.38	75.62	1.918	
13,400.00	9,110.00	13,569.76	9,255.00	105.79	106.11	179.99	-68.24	4,214.42	145.00	67.96	77.04	1.882	
13,500.00	9,110.00	13,669.76	9,255.00	107.99	108.31	179.99	-68.29	4,314.42	145.00	66.54	78.46	1.848	
13,600.00	9,110.00	13,769.76	9,255.00	110.19	110.51	179.99	-68.34	4,414.42	145.00	65.11	79.89	1.815	
13,700.00	9,110.00	13,869.76	9,255.00	112.40	112.71	179.99	-68.38	4,514.42	145.00	63.68	81.32	1.783	
13,800.00	9,110.00	13,969.76	9,255.00	114.61	114.92	179.99	-68.43	4,614.42	145.00	62.24	82.76	1.752	
13,900.00	9,110.00	14,069.76	9,255.00	116.83	117.13	179.99	-68.48	4,714.42	145.00	60.79	84.21	1.722	
14,000.00	9,110.00	14,169.76	9,255.00	119.04	119.34	179.99	-68.53	4,814.42	145.00	59.34	85.66	1.693	
14,100.00	9,110.00	14,269.76	9,255.00	121.27	121.56	179.99	-68.57	4,914.42	145.00	57.89	87.11	1.665	
14,200.00	9,110.00	14,369.76	9,255.00	123.49	123.78	179.99	-68.62	5,014.42	145.00	56.43	88.57	1.637	
14,300.00	9,110.00	14,469.76	9,255.00	125.72	126.01	179.99	-68.67	5,114.42	145.00	54.97	90.03	1.611	
14,400.00	9,110.00	14,569.76	9,255.00	127.95	128.24	179.99	-68.71	5,214.42	145.00	53.51	91.49	1.585	
14,500.00	9,110.00	14,669.76	9,255.00	130.19	130.47	179.99	-68.76	5,314.42	145.00	52.04	92.96	1.560	
14,600.00	9,110.00	14,769.76	9,255.00	132.42	132.70	179.99	-68.81	5,414.42	145.00	50.57	94.43	1.536	
14,700.00	9,110.00	14,869.76	9,255.00	134.66	134.94	179.99	-68.86	5,514.42	145.00	49.10	95.90	1.512	
14,800.00	9,110.00	14,969.76	9,255.00	136.90	137.17	179.99	-68.90	5,614.42	145.00	47.62	97.38	1.489 Level 3	
14,900.00	9,110.00	15,069.76	9,255.00	139.15	139.42	179.99	-68.95	5,714.42	145.00	46.14	98.86	1.467 Level 3	
15,000.00	9,110.00	15,169.76	9,255.00	141.39	141.66	179.99	-69.00	5,814.42	145.00	44.66	100.34	1.445 Level 3	
15,100.00	9,110.00	15,269.76	9,255.00	143.64	143.90	179.99	-69.05	5,914.42	145.00	43.17	101.83	1.424 Level 3	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Leatherneck 3029 Fed Com (Slot 1) : #205H - OH - Prelim A													Offset Site Error:
Survey Program : 0-MWD-HDGM													0.00 usft
Reference	Offset	Semi-Major Axis		Distance		Minimum Separation		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	Warning
15,200.00	9,110.00	15,369.76	9,255.00	145.89	146.15	179.99	-69.09	6,014.42	145.00	41.69	103.31	1.404	Level 3
15,300.00	9,110.00	15,469.76	9,255.00	148.14	148.40	179.99	-69.14	6,114.42	145.00	40.20	104.80	1.384	Level 3
15,400.00	9,110.00	15,569.76	9,255.00	150.39	150.65	179.99	-69.19	6,214.42	145.00	38.70	106.30	1.364	Level 3
15,500.00	9,110.00	15,669.76	9,255.00	152.65	152.90	179.99	-69.23	6,314.42	145.00	37.21	107.79	1.345	Level 3
15,600.00	9,110.00	15,769.76	9,255.00	154.91	155.16	179.99	-69.28	6,414.42	145.00	35.71	109.29	1.327	Level 3
15,700.00	9,110.00	15,869.76	9,255.00	157.16	157.41	179.99	-69.33	6,514.42	145.00	34.22	110.78	1.309	Level 3
15,800.00	9,110.00	15,969.76	9,255.00	159.42	159.67	180.00	-69.38	6,614.42	145.00	32.71	112.29	1.291	Level 3
15,900.00	9,110.00	16,069.76	9,255.00	161.68	161.93	180.00	-69.42	6,714.42	145.00	31.21	113.79	1.274	Level 3
16,000.00	9,110.00	16,169.76	9,255.00	163.95	164.19	180.00	-69.47	6,814.42	145.00	29.71	115.29	1.258	Level 3
16,100.00	9,110.00	16,269.76	9,255.00	166.21	166.45	180.00	-69.52	6,914.42	145.00	28.20	116.80	1.241	Level 2
16,200.00	9,110.00	16,369.76	9,255.00	168.47	168.71	180.00	-69.56	7,014.42	145.00	26.69	118.31	1.226	Level 2
16,300.00	9,110.00	16,469.76	9,255.00	170.74	170.98	180.00	-69.61	7,114.42	145.00	25.19	119.81	1.210	Level 2
16,400.00	9,110.00	16,569.76	9,255.00	173.01	173.24	180.00	-69.66	7,214.42	145.00	23.68	121.32	1.195	Level 2
16,500.00	9,110.00	16,669.76	9,255.00	175.28	175.51	180.00	-69.71	7,314.42	145.00	22.16	122.84	1.180	Level 2
16,600.00	9,110.00	16,769.76	9,255.00	177.54	177.78	180.00	-69.75	7,414.42	145.00	20.65	124.35	1.166	Level 2
16,700.00	9,110.00	16,869.76	9,255.00	179.82	180.04	180.00	-69.80	7,514.42	145.00	19.13	125.87	1.152	Level 2
16,800.00	9,110.00	16,969.76	9,255.00	182.09	182.31	180.00	-69.85	7,614.42	145.00	17.62	127.38	1.138	Level 2
16,900.00	9,110.00	17,069.76	9,255.00	184.36	184.58	180.00	-69.90	7,714.42	145.00	16.10	128.90	1.125	Level 2
17,000.00	9,110.00	17,169.76	9,255.00	186.63	186.85	180.00	-69.94	7,814.42	145.00	14.58	130.42	1.112	Level 2
17,100.00	9,110.00	17,269.76	9,255.00	188.91	189.13	180.00	-69.99	7,914.42	145.00	13.06	131.94	1.099	Level 2
17,200.00	9,110.00	17,369.76	9,255.00	191.18	191.40	180.00	-70.04	8,014.42	145.00	11.54	133.46	1.086	Level 2
17,300.00	9,110.00	17,469.76	9,255.00	193.46	193.67	180.00	-70.08	8,114.42	145.00	10.02	134.98	1.074	Level 2
17,400.00	9,110.00	17,569.76	9,255.00	195.73	195.95	180.00	-70.13	8,214.42	145.00	8.50	136.50	1.062	Level 2
17,500.00	9,110.00	17,669.76	9,255.00	198.01	198.22	180.00	-70.18	8,314.42	145.00	6.97	138.03	1.051	Level 2
17,600.00	9,110.00	17,769.76	9,255.00	200.29	200.50	180.00	-70.23	8,414.42	145.00	5.45	139.55	1.039	Level 2
17,700.00	9,110.00	17,869.76	9,255.00	202.56	202.78	180.00	-70.27	8,514.42	145.00	3.92	141.08	1.028	Level 2
17,800.00	9,110.00	17,969.76	9,255.00	204.84	205.06	180.00	-70.32	8,614.42	145.00	2.39	142.61	1.017	Level 2
17,900.00	9,110.00	18,069.76	9,255.00	207.12	207.33	180.00	-70.37	8,714.42	145.00	0.86	144.14	1.006	Level 2
18,000.00	9,110.00	18,169.76	9,255.00	209.40	209.61	180.00	-70.42	8,814.42	145.00	-0.66	145.66	0.995	Level 1
18,100.00	9,110.00	18,269.76	9,255.00	211.69	211.89	180.00	-70.46	8,914.42	145.00	-2.19	147.19	0.985	Level 1
18,200.00	9,110.00	18,369.76	9,255.00	213.97	214.17	180.00	-70.51	9,014.42	145.00	-3.73	148.73	0.975	Level 1
18,300.00	9,110.00	18,469.76	9,255.00	216.25	216.45	180.00	-70.56	9,114.42	145.00	-5.26	150.26	0.965	Level 1
18,400.00	9,110.00	18,569.76	9,255.00	218.53	218.74	180.00	-70.60	9,214.42	145.00	-6.79	151.79	0.955	Level 1
18,500.00	9,110.00	18,669.76	9,255.00	220.82	221.02	180.00	-70.65	9,314.42	145.00	-8.32	153.32	0.946	Level 1
18,600.00	9,110.00	18,769.76	9,255.00	223.10	223.30	180.00	-70.70	9,414.42	145.00	-9.86	154.86	0.936	Level 1
18,700.00	9,110.00	18,869.76	9,255.00	225.38	225.58	180.00	-70.75	9,514.42	145.00	-11.39	156.39	0.927	Level 1
18,800.00	9,110.00	18,969.76	9,255.00	227.67	227.87	180.00	-70.79	9,614.42	145.00	-12.93	157.93	0.918	Level 1
18,900.00	9,110.00	19,069.76	9,255.00	229.95	230.15	180.00	-70.84	9,714.42	145.00	-14.46	159.46	0.909	Level 1
19,000.00	9,110.00	19,169.76	9,255.00	232.24	232.44	180.00	-70.89	9,814.42	145.00	-16.00	161.00	0.901	Level 1
19,100.00	9,110.00	19,269.76	9,255.00	234.53	234.72	180.00	-70.93	9,914.42	145.00	-17.54	162.54	0.892	Level 1
19,200.00	9,110.00	19,369.76	9,255.00	236.81	236.83	-180.00	-70.98	10,014.42	145.00	-18.81	163.81	0.885	Level 1
19,237.58	9,110.00	19,407.34	9,255.00	237.36	236.98	-180.00	-71.00	10,052.00	145.00	-19.09	164.09	0.884	Level 1, ES, SF

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com (Slot 1)
Site Error: 0.00 usft
Reference Well: #135H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim. A

Local Co-ordinate Reference: Well #135H
TVD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
MD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #221H - OH - Prelim. A													Offset Site Error: 0.00 usft
Survey Program: 0-MWD-HDGM													Offset Well Error: 0.00 usft
Reference	Offset	Semi-Major Axis	Distance	Warning									
Measured Vertical Depth (usft)	Measured Vertical Depth (usft)	Reference Depth (usft)	Offset Depth (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			
0.00	0.00	0.00	0.00	0.00	30.00	0.00	30.00						
100.00	100.00	100.00	100.00	0.13	30.00	0.00	30.00	29.74	0.26	117.047			
200.00	200.00	200.00	200.00	0.49	30.00	0.00	30.00	29.03	0.97	30.825			
300.00	300.00	300.00	300.00	0.85	30.00	0.00	30.00	28.31	1.69	17.749			
400.00	400.00	400.00	400.00	1.20	30.00	0.00	30.00	27.59	2.41	12.463			
500.00	500.00	500.00	500.00	1.56	30.00	0.00	30.00	26.88	3.12	9.603			
600.00	600.00	600.00	600.00	1.92	30.00	0.00	30.00	26.16	3.84	7.810			
700.00	700.00	700.00	700.00	2.28	30.00	0.00	30.00	25.44	4.56	6.582			
800.00	800.00	800.00	800.00	2.64	30.00	0.00	30.00	24.73	5.27	5.687			
900.00	900.00	900.00	900.00	3.00	30.00	0.00	30.00	24.01	5.99	5.007			
1,000.00	1,000.00	1,000.00	1,000.00	3.35	30.00	0.00	30.00	23.29	6.71	4.472 CC			
1,100.00	1,099.98	1,099.29	1,099.27	3.71	31.16	-1.27	30.62	23.21	7.41	4.131 ES			
1,200.00	1,199.84	1,198.55	1,198.40	4.06	34.64	-5.07	32.52	24.41	8.11	4.009			
1,300.00	1,299.45	1,301.75	1,297.78	4.41	39.94	-10.86	35.28	26.45	8.83	3.994			
1,400.00	1,398.88	1,401.86	1,397.35	4.77	45.37	-16.79	38.02	28.46	9.56	3.978			
1,500.00	1,498.31	1,501.97	1,496.92	5.14	50.80	-22.72	41.11	30.83	10.28	3.998			
1,600.00	1,597.74	1,602.08	1,596.48	5.50	56.22	-28.64	44.48	33.47	11.01	4.039			
1,700.00	1,697.16	1,702.19	1,696.05	5.87	61.65	-34.57	48.08	36.33	11.75	4.093			
1,800.00	1,796.59	1,802.30	1,795.61	6.24	67.08	-40.50	51.85	39.37	12.48	4.154			
1,900.00	1,896.02	1,902.41	1,895.18	6.62	72.51	-46.43	55.77	42.55	13.22	4.218			
2,000.00	1,995.45	2,002.52	1,994.74	6.99	77.94	-52.36	59.79	45.83	13.96	4.283			
2,100.00	2,094.87	2,102.63	2,094.31	7.37	83.36	-58.29	63.91	49.21	14.70	4.348			
2,200.00	2,194.30	2,202.74	2,193.88	7.75	88.79	-64.22	68.10	52.66	15.44	4.411			
2,300.00	2,293.73	2,302.85	2,293.44	8.13	94.22	-70.15	72.36	56.18	16.18	4.472			
2,400.00	2,393.16	2,402.96	2,393.01	8.50	99.65	-76.08	76.66	59.74	16.92	4.531			
2,500.00	2,492.59	2,503.07	2,492.57	8.88	105.08	-82.01	81.01	63.35	17.66	4.587			
2,600.00	2,592.01	2,603.18	2,592.14	9.26	110.51	-87.94	85.40	66.99	18.40	4.640			
2,700.00	2,691.44	2,703.29	2,691.70	9.64	115.93	-93.87	89.81	70.67	19.15	4.691			
2,800.00	2,790.87	2,803.40	2,791.27	10.03	121.36	-99.79	94.26	74.37	19.89	4.739			
2,900.00	2,890.30	2,903.51	2,890.84	10.41	126.79	-105.72	98.73	78.10	20.63	4.785			
3,000.00	2,989.72	3,003.62	2,990.40	10.79	132.22	-111.65	103.21	81.84	21.37	4.829			
3,100.00	3,089.15	3,103.73	3,089.97	11.17	137.65	-117.58	107.72	85.60	22.12	4.870			
3,200.00	3,188.58	3,203.84	3,189.53	11.56	143.07	-123.51	112.24	89.38	22.86	4.910			
3,300.00	3,288.01	3,303.95	3,289.10	11.94	148.50	-129.44	116.78	93.17	23.60	4.947			
3,400.00	3,387.43	3,395.94	3,388.66	12.32	153.93	-135.37	121.32	97.01	24.32	4.989			
3,500.00	3,486.86	3,504.17	3,488.23	12.70	159.36	-141.30	125.88	100.79	25.09	5.017			
3,600.00	3,586.29	3,604.29	3,587.80	13.09	164.79	-147.23	130.45	104.62	25.84	5.049			
3,700.00	3,685.72	3,704.40	3,687.36	13.47	170.21	-153.16	135.03	108.45	26.58	5.080			
3,800.00	3,785.15	3,804.51	3,786.93	13.86	175.64	-159.09	139.61	112.29	27.32	5.109			
3,900.00	3,884.60	3,904.61	3,886.50	14.24	181.07	-165.02	144.04	115.98	28.07	5.132			
4,000.00	3,984.31	4,004.67	3,986.12	14.61	186.50	-170.95	146.90	118.08	28.81	5.098			
4,100.00	4,084.23	4,104.78	4,085.68	14.97	191.93	-176.88	147.94	118.38	29.56	5.004			
4,200.00	4,184.22	4,205.06	4,185.08	15.31	197.35	-182.80	147.53	117.22	30.31	4.868			
4,300.00	4,284.22	4,305.38	4,284.43	15.65	202.77	-188.71	147.17	116.12	31.05	4.740			
4,332.58	4,316.81	4,327.10	4,316.81	15.76	204.53	-190.64	147.14	115.90	31.25	4.709			
4,400.00	4,384.22	4,405.70	4,383.79	15.99	208.18	-194.63	147.24	115.46	31.79	4.632			
4,500.00	4,484.22	4,506.03	4,483.14	16.33	213.60	-200.55	147.76	115.24	32.52	4.543			
4,600.00	4,584.22	4,606.35	4,582.49	16.67	219.02	-206.46	148.71	115.45	33.25	4.472			
4,700.00	4,684.22	4,706.68	4,681.84	17.02	224.43	-212.38	150.08	116.10	33.98	4.416			
4,800.00	4,784.22	4,807.00	4,781.20	17.36	229.85	-218.30	151.87	117.17	34.71	4.376			
4,900.00	4,884.22	4,907.33	4,880.55	17.70	235.26	-224.21	154.07	118.63	35.43	4.348			
5,000.00	4,984.22	4,992.35	4,979.90	18.05	240.68	-230.13	156.64	120.55	36.09	4.340			

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Leatherneck 3029 Fed Com (Slot 1) - #221H - OH - Prelim A														Offset Site Error:	0.00 usft
Survey Program: 0-MWD-HDGM														Offset Well Error:	0.00 usft
Reference	Offset	Semi-Major Axis		Distance		Minimum Separation		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,100.00	5,084.22	5,107.97	5,079.25	18.39	18.51	19.77	246.10	-236.04	159.58	122.71	36.86	4.329			
5,200.00	5,184.22	5,208.30	5,178.60	18.74	18.89	17.17	251.51	-241.96	162.86	125.28	37.58	4.334			
5,300.00	5,284.22	5,308.62	5,277.96	19.08	19.26	14.67	256.93	-247.88	166.47	128.18	38.29	4.348			
5,400.00	5,384.22	5,408.95	5,377.31	19.43	19.64	12.28	262.35	-253.79	170.38	131.39	38.99	4.370			
5,500.00	5,484.22	5,509.27	5,476.66	19.77	20.01	10.00	267.76	-259.71	174.58	134.88	39.70	4.398			
5,600.00	5,584.22	5,590.40	5,576.01	20.12	20.31	7.83	273.18	-265.63	179.04	138.70	40.33	4.439			
5,700.00	5,684.22	5,690.08	5,675.37	20.47	20.68	5.77	278.60	-271.54	183.74	142.71	41.03	4.478			
5,800.00	5,784.22	5,789.98	5,774.95	20.82	21.06	3.81	284.02	-277.47	188.67	146.93	41.73	4.521			
5,900.00	5,884.22	5,894.21	5,878.98	21.16	21.44	2.35	288.27	-282.11	192.51	150.05	42.46	4.534			
6,000.00	5,984.22	5,998.76	5,983.49	21.51	21.81	1.78	289.97	-283.96	194.06	150.90	43.16	4.496			
6,100.00	6,084.22	6,100.51	6,084.22	21.86	22.16	1.77	290.00	-284.00	194.09	150.23	43.86	4.425			
6,200.00	6,184.22	6,200.51	6,184.22	22.21	22.51	1.77	290.00	-284.00	194.09	149.54	44.56	4.356			
6,300.00	6,284.22	6,300.51	6,284.22	22.56	22.85	1.77	290.00	-284.00	194.09	148.84	45.25	4.289			
6,400.00	6,384.22	6,400.51	6,384.22	22.91	23.20	1.77	290.00	-284.00	194.09	148.14	45.95	4.224			
6,500.00	6,484.22	6,500.51	6,484.22	23.26	23.54	1.77	290.00	-284.00	194.09	147.44	46.65	4.160			
6,600.00	6,584.22	6,600.51	6,584.22	23.61	23.89	1.77	290.00	-284.00	194.09	146.74	47.35	4.099			
6,700.00	6,684.22	6,700.51	6,684.22	23.96	24.24	1.77	290.00	-284.00	194.09	146.04	48.05	4.039			
6,800.00	6,784.22	6,800.51	6,784.22	24.31	24.58	1.77	290.00	-284.00	194.09	145.34	48.75	3.981			
6,900.00	6,884.22	6,900.51	6,884.22	24.66	24.93	1.77	290.00	-284.00	194.09	144.64	49.45	3.925			
7,000.00	6,984.22	7,000.51	6,984.22	25.01	25.28	1.77	290.00	-284.00	194.09	143.94	50.15	3.870			
7,100.00	7,084.22	7,100.51	7,084.22	25.36	25.63	1.77	290.00	-284.00	194.09	143.24	50.85	3.817			
7,200.00	7,184.22	7,200.51	7,184.22	25.71	25.98	1.77	290.00	-284.00	194.09	142.54	51.56	3.765			
7,300.00	7,284.22	7,300.51	7,284.22	26.07	26.33	1.77	290.00	-284.00	194.09	141.83	52.26	3.714			
7,400.00	7,384.22	7,400.51	7,384.22	26.42	26.67	1.77	290.00	-284.00	194.09	141.13	52.96	3.665			
7,500.00	7,484.22	7,500.51	7,484.22	26.77	27.02	1.77	290.00	-284.00	194.09	140.43	53.66	3.617			
7,600.00	7,584.22	7,600.51	7,584.22	27.12	27.37	1.77	290.00	-284.00	194.09	139.72	54.37	3.570			
7,700.00	7,684.22	7,700.51	7,684.22	27.48	27.72	1.77	290.00	-284.00	194.09	139.02	55.07	3.524			
7,800.00	7,784.22	7,800.51	7,784.22	27.83	28.07	1.77	290.00	-284.00	194.09	138.32	55.78	3.480			
7,900.00	7,884.22	7,900.51	7,884.22	28.18	28.42	1.77	290.00	-284.00	194.09	137.61	56.48	3.436			
8,000.00	7,984.22	8,000.51	7,984.22	28.53	28.77	1.77	290.00	-284.00	194.09	136.91	57.19	3.394			
8,100.00	8,084.22	8,100.51	8,084.22	28.89	29.12	1.77	290.00	-284.00	194.09	136.20	57.89	3.353			
8,200.00	8,184.22	8,200.51	8,184.22	29.24	29.48	1.77	290.00	-284.00	194.09	135.50	58.60	3.312			
8,300.00	8,284.22	8,300.51	8,284.22	29.59	29.83	1.77	290.00	-284.00	194.09	134.79	59.30	3.273			
8,400.00	8,384.22	8,400.51	8,384.22	29.95	30.18	1.77	290.00	-284.00	194.09	134.08	60.01	3.234			
8,500.00	8,484.22	8,500.51	8,484.22	30.30	30.53	1.77	290.00	-284.00	194.09	133.38	60.71	3.197			
8,502.71	8,486.94	8,502.20	8,486.94	30.31	30.54	-100.33	290.00	-284.00	194.09	133.36	60.73	3.196			
8,600.00	8,584.17	8,600.56	8,584.17	30.65	30.88	-100.86	290.00	-284.00	194.45	133.04	61.41	3.166			
8,700.00	8,682.61	8,702.12	8,682.61	30.96	31.24	-105.19	290.00	-284.00	198.33	136.29	62.04	3.197			
8,800.00	8,776.63	8,808.11	8,776.63	31.24	31.61	-112.55	290.00	-284.00	209.96	147.34	62.62	3.353			
8,900.00	8,863.36	8,878.63	8,863.36	31.52	31.86	-120.49	290.00	-284.00	234.90	171.88	63.02	3.727			
9,000.00	8,940.19	8,956.00	8,940.69	31.81	32.13	-126.48	290.90	-282.59	276.93	213.51	63.42	4.367			
9,100.00	9,004.76	9,031.47	9,015.34	32.12	32.38	-129.31	296.67	-273.57	334.38	270.65	63.72	5.247			
9,200.00	9,055.12	9,106.20	9,087.25	32.51	32.61	-129.17	307.53	-256.58	402.88	338.99	63.89	6.306			
9,300.00	9,089.74	9,179.65	9,154.77	32.98	32.82	-126.25	323.03	-232.35	479.30	415.43	63.87	7.505			
9,400.00	9,107.57	9,251.79	9,216.98	33.55	33.01	-120.61	342.66	-201.66	561.39	497.75	63.65	8.820			
9,500.00	9,110.00	9,326.62	9,276.14	34.22	33.17	-118.59	367.30	-163.13	646.69	583.45	63.23	10.227			
9,600.00	9,110.00	10,005.73	9,506.00	35.02	36.47	-126.52	490.21	415.31	669.31	609.33	59.98	11.159			
9,700.00	9,110.00	10,106.32	9,506.00	35.95	37.34	-125.83	490.19	514.72	678.01	616.31	61.70	10.989			
9,800.00	9,110.00	10,206.48	9,506.00	37.00	38.31	-125.48	490.17	614.55	682.51	619.02	63.48	10.751			
9,900.00	9,110.00	10,306.49	9,506.00	38.15	39.40	-125.43	490.14	714.55	683.18	617.85	65.33	10.457			
10,000.00	9,110.00	10,406.49	9,506.00	39.40	40.58	-125.42	490.12	814.55	683.20	615.87	67.33	10.147			
10,100.00	9,110.00	10,506.49	9,506.00	40.74	41.86	-125.42	490.10	914.55	683.22	613.73	69.49	9.832			

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #221H - OH - Prelim A													Offset Site Error:
Survey Program: 0-MWD-HDGM													Offset Well Error:
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	
10,200.00	9,110.00	10,606.49	9,506.00	42.17	43.23	-125.42	490.07	1,014.55	683.24	611.45	71.79	9.518	
10,300.00	9,110.00	10,706.49	9,506.00	43.67	44.67	-125.42	490.05	1,114.55	683.26	609.04	74.22	9.206	
10,400.00	9,110.00	10,806.49	9,506.00	45.24	46.18	-125.42	490.03	1,214.55	683.28	606.51	76.77	8.901	
10,500.00	9,110.00	10,906.49	9,506.00	46.87	47.75	-125.42	490.01	1,314.55	683.30	603.88	79.42	8.604	
10,600.00	9,110.00	11,006.49	9,506.00	48.55	49.39	-125.42	489.98	1,414.55	683.32	601.15	82.17	8.316	
10,700.00	9,110.00	11,106.49	9,506.00	50.29	51.07	-125.42	489.96	1,514.55	683.34	598.33	85.01	8.038	
10,800.00	9,110.00	11,206.49	9,506.00	52.07	52.81	-125.42	489.94	1,614.55	683.36	595.43	87.93	7.772	
10,900.00	9,110.00	11,306.49	9,506.00	53.89	54.58	-125.41	489.91	1,714.55	683.38	592.46	90.91	7.517	
11,000.00	9,110.00	11,406.49	9,506.00	55.74	56.39	-125.41	489.89	1,814.55	683.40	589.43	93.97	7.273	
11,100.00	9,110.00	11,506.49	9,506.00	57.63	58.24	-125.41	489.87	1,914.55	683.42	586.34	97.08	7.040	
11,200.00	9,110.00	11,606.49	9,506.00	59.55	60.12	-125.41	489.84	2,014.55	683.44	583.20	100.24	6.818	
11,300.00	9,110.00	11,706.49	9,506.00	61.50	62.03	-125.41	489.82	2,114.55	683.46	580.01	103.45	6.607	
11,400.00	9,110.00	11,806.49	9,506.00	63.47	63.97	-125.41	489.80	2,214.55	683.48	576.77	106.70	6.405	
11,500.00	9,110.00	11,906.49	9,506.00	65.46	65.93	-125.41	489.78	2,314.55	683.50	573.50	110.00	6.214	
11,600.00	9,110.00	12,006.49	9,506.00	67.47	67.91	-125.41	489.75	2,414.55	683.52	570.19	113.33	6.031	
11,700.00	9,110.00	12,106.49	9,506.00	69.50	69.91	-125.40	489.73	2,514.55	683.54	566.85	116.69	5.858	
11,800.00	9,110.00	12,206.49	9,506.00	71.55	71.93	-125.40	489.71	2,614.55	683.56	563.47	120.09	5.692	
11,900.00	9,110.00	12,306.49	9,506.00	73.61	73.97	-125.40	489.68	2,714.55	683.58	560.07	123.51	5.535	
12,000.00	9,110.00	12,406.49	9,506.00	75.69	76.02	-125.40	489.66	2,814.55	683.60	556.64	126.96	5.384	
12,100.00	9,110.00	12,506.49	9,506.00	77.78	78.09	-125.40	489.64	2,914.55	683.62	553.19	130.43	5.241	
12,200.00	9,110.00	12,606.49	9,506.00	79.88	80.17	-125.40	489.62	3,014.55	683.64	549.72	133.92	5.105	
12,300.00	9,110.00	12,706.49	9,506.00	82.00	82.26	-125.40	489.59	3,114.55	683.66	546.22	137.44	4.974	
12,400.00	9,110.00	12,806.49	9,506.00	84.12	84.36	-125.40	489.57	3,214.55	683.68	542.71	140.97	4.850	
12,500.00	9,110.00	12,906.49	9,506.00	86.26	86.48	-125.39	489.55	3,314.55	683.70	539.18	144.52	4.731	
12,600.00	9,110.00	13,006.49	9,506.00	88.40	88.60	-125.39	489.52	3,414.55	683.72	535.64	148.08	4.617	
12,700.00	9,110.00	13,106.49	9,506.00	90.55	90.73	-125.39	489.50	3,514.55	683.74	532.08	151.66	4.508	
12,800.00	9,110.00	13,206.49	9,506.00	92.71	92.87	-125.39	489.48	3,614.55	683.76	528.50	155.26	4.404	
12,900.00	9,110.00	13,306.49	9,506.00	94.87	95.02	-125.39	489.45	3,714.55	683.78	524.91	158.86	4.304	
13,000.00	9,110.00	13,406.49	9,506.00	97.04	97.18	-125.39	489.43	3,814.55	683.80	521.32	162.48	4.208	
13,100.00	9,110.00	13,506.49	9,506.00	99.22	99.34	-125.39	489.41	3,914.55	683.82	517.70	166.11	4.117	
13,200.00	9,110.00	13,606.49	9,506.00	101.40	101.51	-125.39	489.39	4,014.55	683.84	514.08	169.76	4.028	
13,300.00	9,110.00	13,706.49	9,506.00	103.59	103.69	-125.39	489.36	4,114.55	683.86	510.45	173.41	3.944	
13,400.00	9,110.00	13,806.49	9,506.00	105.79	105.87	-125.38	489.34	4,214.55	683.88	506.81	177.07	3.862	
13,500.00	9,110.00	13,906.49	9,506.00	107.99	108.06	-125.38	489.32	4,314.55	683.90	503.16	180.74	3.784	
13,600.00	9,110.00	13,993.51	9,506.00	110.19	109.96	-125.38	489.29	4,414.55	683.92	499.74	184.18	3.713	
13,700.00	9,110.00	14,106.49	9,506.00	112.40	112.44	-125.38	489.27	4,514.55	683.94	495.84	188.10	3.636	
13,800.00	9,110.00	14,206.49	9,506.00	114.61	114.65	-125.38	489.25	4,614.55	683.96	492.17	191.79	3.566	
13,900.00	9,110.00	14,306.49	9,506.00	116.83	116.85	-125.38	489.22	4,714.55	683.98	488.49	195.49	3.499	
14,000.00	9,110.00	14,406.49	9,506.00	119.04	119.06	-125.38	489.20	4,814.55	684.00	484.80	199.20	3.434	
14,100.00	9,110.00	14,506.49	9,506.00	121.27	121.27	-125.38	489.18	4,914.55	684.02	481.11	202.91	3.371	
14,200.00	9,110.00	14,606.49	9,506.00	123.49	123.49	-125.37	489.16	5,014.55	684.04	477.41	206.63	3.310	
14,300.00	9,110.00	14,706.49	9,506.00	125.72	125.71	-125.37	489.13	5,114.55	684.06	473.71	210.35	3.252	
14,400.00	9,110.00	14,806.49	9,506.00	127.95	127.93	-125.37	489.11	5,214.55	684.08	470.00	214.08	3.195	
14,500.00	9,110.00	14,906.49	9,506.00	130.19	130.16	-125.37	489.09	5,314.55	684.10	466.28	217.82	3.141	
14,600.00	9,110.00	15,006.49	9,506.00	132.42	132.38	-125.37	489.06	5,414.55	684.12	462.56	221.56	3.088	
14,700.00	9,110.00	15,106.49	9,506.00	134.66	134.61	-125.37	489.04	5,514.55	684.14	458.84	225.30	3.037	
14,800.00	9,110.00	15,206.49	9,506.00	136.90	136.85	-125.37	489.02	5,614.55	684.16	455.11	229.05	2.987	
14,900.00	9,110.00	15,306.49	9,506.00	139.15	139.08	-125.37	489.00	5,714.55	684.18	451.38	232.80	2.939	
15,000.00	9,110.00	15,406.49	9,506.00	141.39	141.32	-125.36	488.97	5,814.55	684.20	447.64	236.56	2.892	
15,100.00	9,110.00	15,506.49	9,506.00	143.64	143.56	-125.36	488.95	5,914.55	684.22	443.90	240.32	2.847	
15,200.00	9,110.00	15,606.49	9,506.00	145.89	145.81	-125.36	488.93	6,014.55	684.24	440.16	244.08	2.803	
15,300.00	9,110.00	15,706.49	9,506.00	148.14	148.05	-125.36	488.90	6,114.55	684.26	436.41	247.85	2.761	

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

Pro Directional

Anticollision Report

Company: Matador Resources
 Project: Eddy County, NM (NAD27)
 Reference Site: Leatherneck 3029 Fed Com (Slot 1)
 Site Error: 0.00 usft
 Reference Well: #135H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Prelim A

Local Co-ordinate Reference: Well #135H
 TVD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
 MD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: WellPlanner1
 Offset TVD Reference: Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #221H - OH - Prelim A											Offset Site Error		0.00 usft
Survey Program: 0-MWD-HDGM											Offset Well Error		0.00 usft
Reference		Offset		Semi-Major Axis			Distance		Minimum Separation		Warning		
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	Minimum	Separation		
Depth	Depth	Depth	Depth			Toolface	N/S	E/W	Centres	Ellipses	Separation	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
15,400.00	9,110.00	15,806.49	9,506.00	150.39	150.30	-125.36	488.88	6,214.55	684.28	432.67	251.62	2.720	
15,500.00	9,110.00	15,906.49	9,506.00	152.65	152.55	-125.36	488.86	6,314.55	684.30	428.91	255.39	2.679	
15,600.00	9,110.00	16,006.49	9,506.00	154.91	154.80	-125.36	488.83	6,414.55	684.32	425.16	259.16	2.640	
15,700.00	9,110.00	16,106.49	9,506.00	157.16	157.05	-125.36	488.81	6,514.55	684.34	421.40	262.94	2.603	
15,800.00	9,110.00	16,206.49	9,506.00	159.42	159.30	-125.36	488.79	6,614.55	684.36	417.64	266.73	2.566	
15,900.00	9,110.00	16,306.49	9,506.00	161.68	161.56	-125.35	488.77	6,714.55	684.38	413.87	270.51	2.530	
16,000.00	9,110.00	16,406.49	9,506.00	163.95	163.82	-125.35	488.74	6,814.55	684.40	410.11	274.30	2.495	
16,100.00	9,110.00	16,506.49	9,506.00	166.21	166.07	-125.35	488.72	6,914.55	684.42	406.34	278.09	2.461	
16,200.00	9,110.00	16,593.51	9,506.00	168.47	168.04	-125.35	488.70	7,014.55	684.44	402.81	281.63	2.430	
16,300.00	9,110.00	16,706.49	9,506.00	170.74	170.59	-125.35	488.67	7,114.55	684.46	398.79	285.67	2.396	
16,400.00	9,110.00	16,806.49	9,506.00	173.01	172.86	-125.35	488.65	7,214.55	684.48	395.01	289.47	2.365	
16,500.00	9,110.00	16,906.49	9,506.00	175.28	175.12	-125.35	488.63	7,314.55	684.50	391.24	293.27	2.334	
16,600.00	9,110.00	17,006.49	9,506.00	177.54	177.38	-125.35	488.61	7,414.55	684.52	387.46	297.07	2.304	
16,700.00	9,110.00	17,106.49	9,506.00	179.82	179.65	-125.34	488.58	7,514.55	684.54	383.67	300.87	2.275	
16,800.00	9,110.00	17,206.49	9,506.00	182.09	181.92	-125.34	488.56	7,614.55	684.56	379.89	304.67	2.247	
16,900.00	9,110.00	17,306.49	9,506.00	184.36	184.18	-125.34	488.54	7,714.55	684.58	376.11	308.48	2.219	
17,000.00	9,110.00	17,406.49	9,506.00	186.63	186.45	-125.34	488.51	7,814.55	684.60	372.32	312.28	2.192	
17,100.00	9,110.00	17,506.49	9,506.00	188.91	188.72	-125.34	488.49	7,914.55	684.62	368.53	316.09	2.166	
17,200.00	9,110.00	17,606.49	9,506.00	191.18	190.99	-125.34	488.47	8,014.55	684.64	364.74	319.90	2.140	
17,300.00	9,110.00	17,706.49	9,506.00	193.46	193.27	-125.34	488.44	8,114.55	684.66	360.95	323.72	2.115	
17,400.00	9,110.00	17,806.49	9,506.00	195.73	195.54	-125.34	488.42	8,214.55	684.68	357.15	327.53	2.090	
17,500.00	9,110.00	17,906.49	9,506.00	198.01	197.81	-125.33	488.40	8,314.55	684.70	353.36	331.35	2.066	
17,600.00	9,110.00	18,006.49	9,506.00	200.29	200.09	-125.33	488.38	8,414.55	684.72	349.56	335.16	2.043	
17,700.00	9,110.00	18,106.49	9,506.00	202.56	202.36	-125.33	488.35	8,514.55	684.74	345.76	338.98	2.020	
17,800.00	9,110.00	18,206.49	9,506.00	204.84	204.64	-125.33	488.33	8,614.55	684.76	341.96	342.80	1.998	
17,900.00	9,110.00	18,306.49	9,506.00	207.12	206.91	-125.33	488.31	8,714.55	684.78	338.16	346.62	1.976	
18,000.00	9,110.00	18,406.49	9,506.00	209.40	209.19	-125.33	488.28	8,814.55	684.80	334.36	350.44	1.954	
18,100.00	9,110.00	18,506.49	9,506.00	211.69	211.47	-125.33	488.26	8,914.55	684.82	330.56	354.27	1.933	
18,200.00	9,110.00	18,606.49	9,506.00	213.97	213.75	-125.33	488.24	9,014.55	684.84	326.75	358.09	1.912	
18,300.00	9,110.00	18,706.49	9,506.00	216.25	216.03	-125.33	488.21	9,114.55	684.86	322.95	361.92	1.892	
18,400.00	9,110.00	18,806.49	9,506.00	218.53	218.31	-125.32	488.19	9,214.55	684.88	319.14	365.74	1.873	
18,500.00	9,110.00	18,906.49	9,506.00	220.82	220.59	-125.32	488.17	9,314.55	684.90	315.33	369.57	1.853	
18,600.00	9,110.00	19,006.49	9,506.00	223.10	222.87	-125.32	488.15	9,414.55	684.92	311.53	373.40	1.834	
18,700.00	9,110.00	19,106.49	9,506.00	225.38	225.15	-125.32	488.12	9,514.55	684.94	307.72	377.23	1.816	
18,800.00	9,110.00	19,206.49	9,506.00	227.67	227.43	-125.32	488.10	9,614.55	684.96	303.90	381.06	1.798	
18,900.00	9,110.00	19,306.49	9,506.00	229.95	229.71	-125.32	488.08	9,714.55	684.98	300.09	384.89	1.780	
19,000.00	9,110.00	19,406.49	9,506.00	232.24	232.00	-125.32	488.05	9,814.55	685.00	296.28	388.72	1.762	
19,100.00	9,110.00	19,506.49	9,506.00	234.53	234.28	-125.32	488.03	9,914.55	685.02	292.47	392.56	1.745	
19,200.00	9,110.00	19,593.51	9,506.00	236.81	236.27	-125.31	488.01	10,014.55	685.04	288.90	396.14	1.729	
19,237.58	9,110.00	19,631.09	9,506.00	237.36	237.13	-125.31	488.00	10,052.13	685.05	287.73	397.32	1.724 SF	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2:00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck-3029 Fed Com (Slot-1) - #222H - OH - Prelim A														Offset Site Error:	0.00 usft
Survey Program: 0:MWD-HDGM														Offset Well Error:	0.00 usft
Reference		Offset		Semi-Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres		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)	Centres (usft)	Ellipses (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	-45.00	30.00	-30.00	42.43						
100.00	100.00	100.00	100.00	0.13	0.13	-45.00	30.00	-30.00	42.43	42.17	0.26	165.529			
200.00	200.00	200.00	200.00	0.49	0.49	-45.00	30.00	-30.00	42.43	41.45	0.97	43.592			
300.00	300.00	300.00	300.00	0.85	0.85	-45.00	30.00	-30.00	42.43	40.74	1.69	25.102			
400.00	400.00	400.00	400.00	1.20	1.20	-45.00	30.00	-30.00	42.43	40.02	2.41	17.625			
500.00	500.00	500.00	500.00	1.56	1.56	-45.00	30.00	-30.00	42.43	39.30	3.12	13.580			
600.00	600.00	600.00	600.00	1.92	1.92	-45.00	30.00	-30.00	42.43	38.59	3.84	11.046			
700.00	700.00	700.00	700.00	2.28	2.28	-45.00	30.00	-30.00	42.43	37.87	4.56	9.308			
800.00	800.00	800.00	800.00	2.64	2.64	-45.00	30.00	-30.00	42.43	37.15	5.27	8.043			
900.00	900.00	900.00	900.00	3.00	3.00	-45.00	30.00	-30.00	42.43	36.43	5.99	7.081			
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	-45.00	30.00	-30.00	42.43	35.72	6.71	6.324			
1,100.00	1,099.98	1,100.02	1,099.98	3.71	3.71	27.80	30.00	-30.00	40.87	33.45	7.42	5.509			
1,200.00	1,199.84	1,200.16	1,199.84	4.06	4.07	31.70	30.00	-30.00	36.33	28.20	8.13	4.469			
1,300.00	1,299.45	1,300.55	1,299.45	4.41	4.43	40.77	30.00	-30.00	29.27	20.42	8.84	3.309			
1,400.00	1,398.88	1,401.12	1,398.88	4.77	4.79	58.94	30.00	-30.00	22.27	12.71	9.56	2.329			
1,500.00	1,498.31	1,501.69	1,498.31	5.14	5.15	87.44	30.00	-30.00	19.07	8.78	10.29	1.854			
1,508.01	1,506.27	1,506.27	1,506.27	5.17	5.17	90.00	30.00	-30.00	19.05	8.72	10.33	1.844 CC, ES, SF			
1,600.00	1,597.74	1,602.26	1,597.74	5.50	5.51	117.15	30.00	-30.00	21.44	10.43	11.00	1.948			
1,700.00	1,697.16	1,702.84	1,697.16	5.87	5.87	136.95	30.00	-30.00	27.99	16.28	11.71	2.390			
1,800.00	1,796.59	1,803.41	1,796.59	6.24	6.23	148.44	30.00	-30.00	36.55	24.13	12.42	2.943			
1,900.00	1,896.02	1,903.98	1,896.02	6.62	6.59	155.41	30.00	-30.00	46.01	32.87	13.13	3.503			
2,000.00	1,995.45	1,995.45	1,995.45	6.99	6.92	159.97	30.00	-30.00	55.91	42.09	13.82	4.046			
2,100.00	2,094.87	2,095.67	2,095.65	7.37	7.27	164.46	28.54	-30.64	65.47	50.95	14.52	4.510			
2,200.00	2,194.30	2,195.77	2,195.62	7.75	7.59	170.37	23.88	-32.69	74.35	59.15	15.20	4.892			
2,300.00	2,293.73	2,295.47	2,294.95	8.13	7.92	177.31	16.06	-36.13	83.27	67.38	15.89	5.242			
2,400.00	2,393.16	2,394.48	2,393.40	8.50	8.25	-175.93	6.43	-40.37	93.09	76.51	16.58	5.616			
2,500.00	2,492.59	2,506.55	2,491.80	8.88	8.63	-170.49	-3.21	-44.61	103.96	86.64	17.32	6.002			
2,600.00	2,592.01	2,607.58	2,590.21	9.26	8.97	-166.11	-12.85	-48.85	115.58	97.54	18.03	6.409			
2,700.00	2,691.44	2,708.61	2,688.62	9.64	9.32	-162.54	-22.50	-53.09	127.75	108.99	18.75	6.813			
2,800.00	2,790.87	2,809.64	2,787.03	10.03	9.68	-159.59	-32.14	-57.33	140.32	120.85	19.47	7.206			
2,900.00	2,890.30	2,889.33	2,885.44	10.41	9.96	-157.14	-41.78	-61.58	153.20	133.08	20.12	7.613			
3,000.00	2,989.72	2,988.30	2,983.84	10.79	10.31	-155.06	-51.43	-65.82	166.31	145.47	20.84	7.980			
3,100.00	3,089.15	3,087.27	3,082.25	11.17	10.66	-153.29	-61.07	-70.06	179.61	158.05	21.56	8.329			
3,200.00	3,188.58	3,186.24	3,180.66	11.56	11.02	-151.77	-70.71	-74.30	193.05	170.76	22.29	8.661			
3,300.00	3,288.01	3,285.21	3,279.07	11.94	11.38	-150.44	-80.36	-78.54	206.61	183.60	23.02	8.977			
3,400.00	3,387.43	3,384.18	3,377.48	12.32	11.74	-149.28	-90.00	-82.78	220.27	196.52	23.74	9.277			
3,500.00	3,486.86	3,483.15	3,475.89	12.70	12.10	-148.25	-99.65	-87.03	234.00	209.53	24.47	9.562			
3,600.00	3,586.29	3,582.13	3,574.29	13.09	12.46	-147.34	-109.29	-91.27	247.80	222.60	25.20	9.832			
3,700.00	3,685.72	3,681.10	3,672.70	13.47	12.82	-146.53	-118.93	-95.51	261.65	235.72	25.94	10.088			
3,800.00	3,785.15	3,780.07	3,771.11	13.86	13.19	-145.79	-128.58	-99.75	275.56	248.89	26.67	10.332			
3,900.00	3,884.60	3,879.06	3,869.54	14.24	13.56	-145.16	-138.22	-104.00	289.26	261.86	27.40	10.556			
4,000.00	3,984.31	3,978.28	3,968.20	14.61	13.92	-144.34	-147.89	-108.25	300.68	272.55	28.13	10.688			
4,100.00	4,084.23	4,077.67	4,067.02	14.97	14.29	-143.17	-157.57	-112.51	309.39	280.53	28.86	10.721			
4,200.00	4,184.22	4,177.10	4,165.89	15.31	14.67	-146.65	-167.26	-116.77	315.68	286.10	29.58	10.674			
4,300.00	4,284.22	4,276.54	4,264.76	15.65	15.04	-148.24	-176.95	-121.03	321.61	291.32	30.29	10.618			
4,400.00	4,384.22	4,375.97	4,363.62	15.99	15.41	-149.77	-186.64	-125.29	327.78	296.78	31.00	10.573			
4,500.00	4,484.22	4,475.40	4,462.49	16.33	15.78	-151.24	-196.33	-129.55	334.17	302.46	31.71	10.537			
4,600.00	4,584.22	4,574.83	4,561.36	16.67	16.16	-152.65	-206.02	-133.82	340.78	308.35	32.43	10.509			
4,700.00	4,684.22	4,674.26	4,660.23	17.02	16.53	-154.02	-215.70	-138.08	347.59	314.45	33.14	10.489			
4,800.00	4,784.22	4,773.69	4,759.09	17.36	16.91	-155.32	-225.39	-142.34	354.58	320.73	33.85	10.475			
4,900.00	4,884.22	4,873.13	4,857.96	17.70	17.28	-156.58	-235.08	-146.60	361.76	327.20	34.56	10.467			
5,000.00	4,984.22	4,972.56	4,956.83	18.05	17.66	-157.79	-244.77	-150.86	369.10	333.83	35.27	10.465			

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com (Slot 1)
Site Error: 0.00 usft
Reference Well: #135H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #135H
TVD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
MD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner
Offset TVD Reference: Offset Datum

Leatherneck 3029 Fed Com (Slot 1) - #222H - OH - Prelim A														Offset Site Error
Survey Program: 0:MWD+HDGM														Offset Well Error
Reference	Offset	Semi-Major Axis		Distance		Minimum Separation		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	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		
5,100.00	5,084.22	5,071.99	5,055.69	18.39	18.04	158.95	-254.46	-155.12	376.60	340.62	35.98	10.466		
5,200.00	5,184.22	5,171.42	5,154.56	18.74	18.41	160.07	-264.15	-159.39	384.25	347.55	36.69	10.472		
5,300.00	5,284.22	5,270.85	5,253.43	19.08	18.79	161.14	-273.84	-163.65	392.04	354.63	37.40	10.481		
5,400.00	5,384.22	5,370.29	5,352.29	19.43	19.17	162.17	-283.52	-167.91	399.96	361.84	38.11	10.494		
5,500.00	5,484.22	5,469.72	5,451.16	19.77	19.55	163.16	-293.21	-172.17	408.00	369.18	38.82	10.509		
5,600.00	5,584.22	5,569.15	5,550.03	20.12	19.93	164.11	-302.90	-176.43	416.16	376.63	39.53	10.527		
5,700.00	5,684.22	5,668.58	5,648.89	20.47	20.31	165.02	-312.59	-180.69	424.43	384.19	40.24	10.547		
5,800.00	5,784.22	5,768.01	5,747.76	20.82	20.68	165.90	-322.28	-184.96	432.81	391.85	40.95	10.568		
5,900.00	5,884.22	5,867.44	5,846.63	21.16	21.06	166.75	-331.97	-189.22	441.28	399.61	41.66	10.591		
6,000.00	5,984.22	5,966.88	5,945.49	21.51	21.44	167.56	-341.66	-193.48	449.84	407.47	42.37	10.616		
6,100.00	6,084.22	6,066.31	6,044.36	21.86	21.82	168.35	-351.34	-197.74	458.49	415.41	43.08	10.642		
6,200.00	6,184.22	6,165.74	6,143.23	22.21	22.21	169.10	-361.03	-202.00	467.23	423.43	43.79	10.669		
6,300.00	6,284.22	6,265.17	6,242.10	22.56	22.59	169.83	-370.72	-206.26	476.04	431.54	44.50	10.697		
6,400.00	6,384.22	6,364.60	6,340.96	22.91	22.97	170.53	-380.41	-210.53	484.93	439.71	45.21	10.725		
6,500.00	6,484.22	6,464.04	6,439.83	23.26	23.35	171.20	-390.10	-214.79	493.88	447.96	45.92	10.754		
6,600.00	6,584.22	6,563.47	6,538.70	23.61	23.73	171.86	-399.79	-219.05	502.90	456.27	46.63	10.784		
6,700.00	6,684.22	6,662.90	6,637.56	23.96	24.11	172.48	-409.47	-223.31	511.99	464.64	47.34	10.814		
6,800.00	6,784.22	6,762.33	6,736.43	24.31	24.49	173.09	-419.16	-227.57	521.13	473.07	48.06	10.844		
6,900.00	6,884.22	6,861.76	6,835.30	24.66	24.88	173.68	-428.85	-231.83	530.33	481.56	48.77	10.875		
7,000.00	6,984.22	6,961.19	6,934.16	25.01	25.26	174.24	-438.54	-236.10	539.58	490.10	49.48	10.906		
7,100.00	7,084.22	7,060.63	7,033.03	25.36	25.64	174.79	-448.23	-240.36	548.88	498.69	50.19	10.936		
7,200.00	7,184.22	7,160.06	7,131.90	25.71	26.02	175.32	-457.92	-244.62	558.23	507.33	50.90	10.967		
7,300.00	7,284.22	7,259.49	7,230.76	26.07	26.40	175.83	-467.61	-248.88	567.63	516.02	51.61	10.998		
7,400.00	7,384.22	7,358.92	7,329.63	26.42	26.79	176.32	-477.29	-253.14	577.07	524.74	52.32	11.029		
7,500.00	7,484.22	7,458.35	7,428.50	26.77	27.17	176.80	-486.98	-257.40	586.55	533.51	53.03	11.060		
7,600.00	7,584.22	7,557.79	7,527.36	27.12	27.55	177.26	-496.67	-261.67	596.07	542.32	53.75	11.090		
7,700.00	7,684.22	7,657.22	7,626.23	27.48	27.94	177.71	-506.36	-265.93	605.62	551.17	54.46	11.121		
7,800.00	7,784.22	7,756.65	7,725.10	27.83	28.32	178.15	-516.05	-270.19	615.22	560.05	55.17	11.151		
7,900.00	7,884.22	7,856.08	7,823.97	28.18	28.70	178.57	-525.74	-274.45	624.84	568.96	55.88	11.181		
8,000.00	7,984.22	7,955.51	7,922.83	28.53	29.09	178.98	-535.42	-278.71	634.50	577.91	56.59	11.211		
8,100.00	8,084.22	8,054.94	8,021.70	28.89	29.47	179.37	-545.11	-282.97	644.19	586.89	57.31	11.241		
8,200.00	8,184.22	8,154.38	8,120.57	29.24	29.85	179.76	-554.80	-287.24	653.91	595.89	58.02	11.270		
8,300.00	8,284.22	8,260.42	8,226.03	29.59	30.26	179.85	-564.98	-291.71	663.54	604.75	58.79	11.287		
8,400.00	8,384.22	8,367.27	8,352.52	29.95	30.73	179.53	-573.52	-295.47	670.30	610.63	59.67	11.234		
8,500.00	8,484.22	8,514.69	8,479.88	30.30	31.18	179.41	-576.94	-296.97	672.99	612.52	60.47	11.130		
8,600.00	8,584.17	8,618.98	8,584.17	30.65	31.52	78.70	-577.00	-297.00	672.65	611.50	61.15	11.000		
8,700.00	8,682.61	8,717.42	8,682.61	30.96	31.83	80.39	-577.00	-297.00	669.54	607.77	61.77	10.840		
8,800.00	8,776.63	8,811.44	8,776.63	31.24	32.14	83.58	-577.00	-297.00	664.56	602.22	62.34	10.661		
8,900.00	8,863.36	8,898.18	8,863.36	31.52	32.41	87.70	-577.00	-297.00	660.30	597.44	62.86	10.504		
8,941.68	8,896.73	8,925.62	8,890.80	31.64	32.50	89.18	-577.07	-296.92	659.63	596.57	63.06	10.460		
9,000.00	8,940.19	8,955.15	8,920.31	31.81	32.60	90.66	-577.91	-295.91	661.17	597.86	63.32	10.442		
9,100.00	9,004.76	9,004.98	9,069.79	32.12	32.77	92.60	-581.55	-291.58	671.47	607.71	63.76	10.532		
9,200.00	9,055.12	9,053.36	9,017.20	32.51	32.94	93.63	-587.71	-284.24	692.02	627.77	64.26	10.770		
9,300.00	9,089.74	9,099.70	9,061.69	32.98	33.10	93.56	-596.00	-274.35	722.92	658.11	64.81	11.154		
9,400.00	9,107.57	9,143.16	9,102.35	33.55	33.24	92.25	-605.86	-262.61	763.59	698.23	65.36	11.683		
9,500.00	9,110.00	9,184.30	9,139.66	34.22	33.38	92.50	-616.98	-249.35	813.38	747.57	65.81	12.360		
9,600.00	9,110.00	9,235.89	9,184.54	35.02	33.55	96.40	-633.32	-229.88	873.30	807.11	66.19	13.194		
9,700.00	9,110.00	10,137.89	9,506.00	35.95	37.67	117.39	-827.08	514.20	863.13	797.54	65.59	13.160		
9,800.00	9,110.00	10,237.73	9,506.00	37.00	38.63	117.49	-827.13	614.03	858.24	790.94	67.31	12.751		
9,898.12	9,110.00	10,335.83	9,506.00	38.13	39.69	117.52	-827.18	712.14	856.97	787.72	69.24	12.376		
9,900.00	9,110.00	10,337.72	9,506.00	38.15	39.71	117.50	-827.18	714.03	857.54	788.25	69.29	12.376		
10,000.00	9,110.00	10,437.72	9,506.00	39.40	40.90	117.50	-827.23	814.03	857.54	786.06	71.48	11.997		

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #222H - OH - Prelim A												Offset Site Error: 0.00 usft	
Survey Program: 0-MWD-HDGM												Offset Well Error: 0.00 usft	
Reference		Offset		Semi-Major Axis		Distance		Between Centres		Between Ellipses		Minimum Separation	Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	N/S (usft)	E/W (usft)	(usft)	(usft)	(usft)		
10,100.00	9,110.00	10,537.72	9,506.00	40.74	42.18	117.50	-827.29	914.03	857.55	783.71	73.83	11.615	
10,200.00	9,110.00	10,637.72	9,506.00	42.17	43.55	117.50	-827.34	1,014.03	857.55	781.21	76.34	11.233	
10,300.00	9,110.00	10,737.72	9,506.00	43.67	44.99	117.50	-827.39	1,114.03	857.55	778.56	78.99	10.856	
10,400.00	9,110.00	10,837.72	9,506.00	45.24	46.51	117.50	-827.44	1,214.03	857.56	775.79	81.77	10.487	
10,500.00	9,110.00	10,937.72	9,506.00	46.87	48.09	117.50	-827.49	1,314.03	857.56	772.90	84.66	10.129	
10,600.00	9,110.00	11,037.72	9,506.00	48.55	49.72	117.50	-827.54	1,414.03	857.56	769.91	87.66	9.783	
10,700.00	9,110.00	11,137.72	9,506.00	50.29	51.41	117.50	-827.60	1,514.03	857.57	766.83	90.74	9.451	
10,800.00	9,110.00	11,237.72	9,506.00	52.07	53.15	117.50	-827.65	1,614.03	857.57	763.66	93.91	9.132	
10,900.00	9,110.00	11,337.72	9,506.00	53.89	54.92	117.50	-827.70	1,714.03	857.57	760.42	97.15	8.827	
11,000.00	9,110.00	11,437.72	9,506.00	55.74	56.74	117.50	-827.75	1,814.03	857.58	757.11	100.47	8.536	
11,100.00	9,110.00	11,537.72	9,506.00	57.63	58.59	117.50	-827.80	1,914.03	857.58	753.74	103.84	8.259	
11,200.00	9,110.00	11,637.72	9,506.00	59.55	60.47	117.50	-827.85	2,014.03	857.58	750.32	107.27	7.995	
11,300.00	9,110.00	11,737.72	9,506.00	61.50	62.38	117.50	-827.91	2,114.03	857.59	746.84	110.75	7.744	
11,400.00	9,110.00	11,837.72	9,506.00	63.47	64.31	117.50	-827.96	2,214.03	857.59	743.32	114.27	7.505	
11,500.00	9,110.00	11,937.72	9,506.00	65.46	66.27	117.50	-828.01	2,314.03	857.60	739.76	117.84	7.278	
11,600.00	9,110.00	12,037.72	9,506.00	67.47	68.26	117.50	-828.06	2,414.03	857.60	736.15	121.45	7.062	
11,700.00	9,110.00	12,137.72	9,506.00	69.50	70.26	117.50	-828.11	2,514.03	857.60	732.52	125.08	6.856	
11,800.00	9,110.00	12,237.72	9,506.00	71.55	72.28	117.50	-828.16	2,614.03	857.61	728.85	128.76	6.661	
11,900.00	9,110.00	12,337.72	9,506.00	73.61	74.32	117.50	-828.21	2,714.03	857.61	725.15	132.46	6.475	
12,000.00	9,110.00	12,437.72	9,506.00	75.69	76.37	117.50	-828.27	2,814.03	857.61	721.43	136.18	6.297	
12,100.00	9,110.00	12,537.72	9,506.00	77.78	78.44	117.50	-828.32	2,914.03	857.62	717.68	139.94	6.129	
12,200.00	9,110.00	12,637.72	9,506.00	79.88	80.52	117.50	-828.37	3,014.03	857.62	713.91	143.71	5.968	
12,300.00	9,110.00	12,737.72	9,506.00	82.00	82.61	117.50	-828.42	3,114.03	857.62	710.12	147.51	5.814	
12,400.00	9,110.00	12,837.72	9,506.00	84.12	84.71	117.50	-828.47	3,214.03	857.63	706.30	151.32	5.668	
12,500.00	9,110.00	12,937.72	9,506.00	86.26	86.83	117.50	-828.52	3,314.03	857.63	702.47	155.16	5.528	
12,600.00	9,110.00	13,037.72	9,506.00	88.40	88.95	117.50	-828.58	3,414.03	857.63	698.63	159.01	5.394	
12,700.00	9,110.00	13,137.72	9,506.00	90.55	91.08	117.50	-828.63	3,514.03	857.64	694.77	162.87	5.266	
12,800.00	9,110.00	13,237.72	9,506.00	92.71	93.22	117.50	-828.68	3,614.03	857.64	690.89	166.75	5.143	
12,900.00	9,110.00	13,337.72	9,506.00	94.87	95.37	117.50	-828.73	3,714.03	857.64	687.00	170.64	5.026	
13,000.00	9,110.00	13,437.72	9,506.00	97.04	97.53	117.50	-828.78	3,814.03	857.65	683.10	174.55	4.913	
13,100.00	9,110.00	13,537.72	9,506.00	99.22	99.69	117.50	-828.83	3,914.03	857.65	679.18	178.47	4.806	
13,200.00	9,110.00	13,637.72	9,506.00	101.40	101.86	117.50	-828.89	4,014.03	857.66	675.26	182.40	4.702	
13,300.00	9,110.00	13,737.72	9,506.00	103.59	104.03	117.50	-828.94	4,114.03	857.66	671.32	186.34	4.603	
13,400.00	9,110.00	13,837.72	9,506.00	105.79	106.22	117.50	-828.99	4,214.03	857.66	667.38	190.28	4.507	
13,500.00	9,110.00	13,937.72	9,506.00	107.99	108.40	117.50	-829.04	4,314.03	857.67	663.42	194.24	4.415	
13,600.00	9,110.00	14,037.72	9,506.00	110.19	110.59	117.50	-829.09	4,414.03	857.67	659.46	198.21	4.327	
13,700.00	9,110.00	14,137.72	9,506.00	112.40	112.79	117.50	-829.14	4,514.03	857.67	655.49	202.18	4.242	
13,800.00	9,110.00	14,237.72	9,506.00	114.61	114.99	117.50	-829.19	4,614.03	857.68	651.51	206.16	4.160	
13,900.00	9,110.00	14,337.72	9,506.00	116.83	117.19	117.50	-829.25	4,714.03	857.68	647.53	210.15	4.081	
14,000.00	9,110.00	14,437.72	9,506.00	119.04	119.40	117.50	-829.30	4,814.03	857.68	643.54	214.15	4.005	
14,100.00	9,110.00	14,537.72	9,506.00	121.27	121.61	117.50	-829.35	4,914.03	857.69	639.54	218.15	3.932	
14,200.00	9,110.00	14,637.72	9,506.00	123.49	123.83	117.50	-829.40	5,014.03	857.69	635.54	222.15	3.861	
14,300.00	9,110.00	14,737.72	9,506.00	125.72	126.05	117.50	-829.45	5,114.03	857.69	631.53	226.17	3.792	
14,400.00	9,110.00	14,837.72	9,506.00	127.95	128.27	117.50	-829.50	5,214.03	857.70	627.51	230.19	3.726	
14,500.00	9,110.00	14,937.72	9,506.00	130.19	130.50	117.50	-829.56	5,314.03	857.70	623.49	234.21	3.662	
14,600.00	9,110.00	15,037.72	9,506.00	132.42	132.72	117.50	-829.61	5,414.03	857.70	619.47	238.24	3.600	
14,700.00	9,110.00	15,137.72	9,506.00	134.66	134.96	117.50	-829.66	5,514.03	857.71	615.44	242.27	3.540	
14,800.00	9,110.00	15,237.72	9,506.00	136.90	137.19	117.50	-829.71	5,614.03	857.71	611.40	246.31	3.482	
14,900.00	9,110.00	15,337.72	9,506.00	139.15	139.42	117.50	-829.76	5,714.03	857.71	607.36	250.35	3.426	
15,000.00	9,110.00	15,437.72	9,506.00	141.39	141.66	117.50	-829.81	5,814.03	857.72	603.32	254.40	3.372	
15,100.00	9,110.00	15,537.72	9,506.00	143.64	143.90	117.50	-829.87	5,914.03	857.72	599.28	258.45	3.319	
15,200.00	9,110.00	15,637.72	9,506.00	145.89	146.15	117.50	-829.92	6,014.03	857.73	595.23	262.50	3.268	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #222H - OH - Prelim A													Offset Site Error
Survey Program: 0-MWD-HDGM													Offset Well Error
Reference	Offset	Semi-Major Axis		Distance		Minimum Separation		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	Warning
15,300.00	9,110.00	15,737.72	9,506.00	148.14	148.39	117.50	-829.97	6,114.03	857.73	591.17	266.55	3.218	
15,400.00	9,110.00	15,837.72	9,506.00	150.39	150.64	117.50	-830.02	6,214.03	857.73	587.12	270.61	3.170	
15,500.00	9,110.00	15,937.72	9,506.00	152.65	152.89	117.50	-830.07	6,314.03	857.74	583.06	274.68	3.123	
15,600.00	9,110.00	16,037.72	9,506.00	154.91	155.14	117.50	-830.12	6,414.03	857.74	579.00	278.74	3.077	
15,700.00	9,110.00	16,137.72	9,506.00	157.16	157.39	117.50	-830.17	6,514.03	857.74	574.93	282.81	3.033	
15,800.00	9,110.00	16,237.72	9,506.00	159.42	159.64	117.50	-830.23	6,614.03	857.75	570.86	286.88	2.990	
15,900.00	9,110.00	16,337.72	9,506.00	161.68	161.90	117.50	-830.28	6,714.03	857.75	566.79	290.96	2.948	
16,000.00	9,110.00	16,437.72	9,506.00	163.95	164.15	117.50	-830.33	6,814.03	857.75	562.72	295.03	2.907	
16,100.00	9,110.00	16,537.72	9,506.00	166.21	166.41	117.49	-830.38	6,914.03	857.76	558.64	299.11	2.868	
16,200.00	9,110.00	16,637.72	9,506.00	168.47	168.67	117.49	-830.43	7,014.03	857.76	554.57	303.20	2.829	
16,300.00	9,110.00	16,737.72	9,506.00	170.74	170.93	117.49	-830.48	7,114.03	857.76	550.49	307.28	2.791	
16,400.00	9,110.00	16,837.72	9,506.00	173.01	173.19	117.49	-830.54	7,214.03	857.77	546.40	311.36	2.755	
16,500.00	9,110.00	16,937.72	9,506.00	175.28	175.46	117.49	-830.59	7,314.03	857.77	542.32	315.45	2.719	
16,600.00	9,110.00	17,037.72	9,506.00	177.54	177.72	117.49	-830.64	7,414.03	857.77	538.23	319.54	2.684	
16,700.00	9,110.00	17,137.72	9,506.00	179.82	179.99	117.49	-830.69	7,514.03	857.78	534.14	323.63	2.650	
16,800.00	9,110.00	17,237.72	9,506.00	182.09	182.25	117.49	-830.74	7,614.03	857.78	530.05	327.73	2.617	
16,900.00	9,110.00	17,337.72	9,506.00	184.36	184.52	117.49	-830.79	7,714.03	857.79	525.96	331.82	2.585	
17,000.00	9,110.00	17,437.72	9,506.00	186.63	186.79	117.49	-830.85	7,814.03	857.79	521.87	335.92	2.554	
17,100.00	9,110.00	17,537.72	9,506.00	188.91	189.06	117.49	-830.90	7,914.03	857.79	517.77	340.02	2.523	
17,200.00	9,110.00	17,637.72	9,506.00	191.18	191.33	117.49	-830.95	8,014.03	857.80	513.68	344.12	2.493	
17,300.00	9,110.00	17,737.72	9,506.00	193.46	193.60	117.49	-831.00	8,114.03	857.80	509.58	348.22	2.463	
17,400.00	9,110.00	17,837.72	9,506.00	195.73	195.87	117.49	-831.05	8,214.03	857.80	505.48	352.33	2.435	
17,500.00	9,110.00	17,937.72	9,506.00	198.01	198.15	117.49	-831.10	8,314.03	857.81	501.38	356.43	2.407	
17,600.00	9,110.00	18,037.72	9,506.00	200.29	200.42	117.49	-831.15	8,414.03	857.81	497.27	360.54	2.379	
17,700.00	9,110.00	18,137.72	9,506.00	202.56	202.69	117.49	-831.21	8,514.03	857.81	493.17	364.64	2.352	
17,800.00	9,110.00	18,237.72	9,506.00	204.84	204.97	117.49	-831.26	8,614.03	857.82	489.06	368.75	2.326	
17,900.00	9,110.00	18,337.72	9,506.00	207.12	207.25	117.49	-831.31	8,714.03	857.82	484.96	372.86	2.301	
18,000.00	9,110.00	18,437.72	9,506.00	209.40	209.52	117.49	-831.36	8,814.03	857.82	480.85	376.97	2.276	
18,100.00	9,110.00	18,537.72	9,506.00	211.69	211.80	117.49	-831.41	8,914.03	857.83	476.74	381.09	2.251	
18,200.00	9,110.00	18,637.72	9,506.00	213.97	214.08	117.49	-831.46	9,014.03	857.83	472.63	385.20	2.227	
18,300.00	9,110.00	18,737.72	9,506.00	216.25	216.36	117.49	-831.52	9,114.03	857.83	468.52	389.31	2.203	
18,400.00	9,110.00	18,837.72	9,506.00	218.53	218.64	117.49	-831.57	9,214.03	857.84	464.41	393.43	2.180	
18,500.00	9,110.00	18,937.72	9,506.00	220.82	220.92	117.49	-831.62	9,314.03	857.84	460.29	397.55	2.158	
18,600.00	9,110.00	19,037.72	9,506.00	223.10	223.20	117.49	-831.67	9,414.03	857.84	456.18	401.66	2.136	
18,700.00	9,110.00	19,137.72	9,506.00	225.38	225.48	117.49	-831.72	9,514.03	857.85	452.06	405.78	2.114	
18,800.00	9,110.00	19,237.72	9,506.00	227.67	227.76	117.49	-831.77	9,614.03	857.85	447.95	409.90	2.093	
18,900.00	9,110.00	19,337.72	9,506.00	229.95	230.04	117.49	-831.83	9,714.03	857.86	443.83	414.02	2.072	
19,000.00	9,110.00	19,437.72	9,506.00	232.24	232.33	117.49	-831.88	9,814.03	857.86	439.71	418.15	2.052	
19,100.00	9,110.00	19,537.72	9,506.00	234.53	234.61	117.49	-831.93	9,914.03	857.86	435.59	422.27	2.032	
19,200.00	9,110.00	19,637.72	9,506.00	236.81	236.89	117.49	-831.98	10,014.03	857.87	431.48	426.39	2.012	
19,237.58	9,110.00	19,675.30	9,506.00	237.36	237.75	117.49	-832.00	10,051.61	857.87	430.21	427.65	2.006	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner.1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #241H - OH - Prelim A											Offset Site Error	0.00 usft
Survey Program: 0-MWD-HDGM											Offset Well Error	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		Warning				
Measured Vertical	Measured Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Toolface (°)	N/S (usft)	E/W (usft)	(usft)	(usft)	(usft)			
0.00	0.00	0.00	0.00	0.00	220.00	0.00	220.00					
100.00	100.00	100.00	100.00	0.13	220.00	0.00	220.00	219.74	0.26	858.344		
200.00	200.00	200.00	200.00	0.49	220.00	0.00	220.00	219.03	0.97	226.047		
300.00	300.00	300.00	300.00	0.85	220.00	0.00	220.00	218.31	1.69	130.163		
400.00	400.00	400.00	400.00	1.20	220.00	0.00	220.00	217.59	2.41	91.395		
500.00	500.00	500.00	500.00	1.56	220.00	0.00	220.00	216.88	3.12	70.421		
600.00	600.00	600.00	600.00	1.92	220.00	0.00	220.00	216.16	3.84	57.276		
700.00	700.00	700.00	700.00	2.28	220.00	0.00	220.00	215.44	4.56	48.267		
800.00	800.00	800.00	800.00	2.64	220.00	0.00	220.00	214.73	5.27	41.707		
900.00	900.00	900.00	900.00	3.00	220.00	0.00	220.00	214.01	5.99	36.717		
1,000.00	1,000.00	1,000.00	1,000.00	3.35	220.00	0.00	220.00	213.29	6.71	32.793 CC		
1,100.00	1,099.98	1,094.97	1,094.95	3.71	221.08	-1.14	220.59	213.20	7.40	29.816 ES		
1,200.00	1,199.84	1,189.91	1,189.78	4.06	224.34	-4.56	222.38	214.30	8.08	27.518		
1,300.00	1,299.45	1,284.81	1,284.34	4.41	229.75	-10.25	225.37	216.60	8.77	25.706		
1,400.00	1,398.88	1,383.76	1,382.74	4.77	236.90	-17.77	229.29	219.81	9.48	24.183		
1,500.00	1,498.31	1,483.65	1,482.08	5.14	244.15	-25.40	233.28	223.07	10.21	22.853		
1,600.00	1,597.74	1,583.54	1,581.42	5.50	251.40	-33.03	237.28	226.34	10.94	21.690		
1,700.00	1,697.16	1,683.44	1,680.75	5.87	258.66	-40.66	241.31	229.64	11.68	20.668		
1,800.00	1,796.59	1,783.33	1,780.09	6.24	265.91	-48.29	245.36	232.95	12.42	19.762		
1,900.00	1,896.02	1,883.22	1,879.42	6.62	273.17	-55.92	249.44	236.28	13.16	18.956		
2,000.00	1,995.45	1,983.11	1,978.76	6.99	280.42	-63.55	253.53	239.62	13.90	18.234		
2,100.00	2,094.87	2,083.01	2,078.10	7.37	287.68	-71.18	257.64	242.99	14.65	17.584		
2,200.00	2,194.30	2,182.90	2,177.43	7.75	294.93	-78.81	261.76	246.36	15.40	16.996		
2,300.00	2,293.73	2,282.79	2,276.77	8.13	302.18	-86.45	265.91	249.76	16.15	16.461		
2,400.00	2,393.16	2,382.68	2,376.10	8.50	309.44	-94.08	270.07	253.16	16.91	15.974		
2,500.00	2,492.59	2,482.57	2,475.44	8.88	316.69	-101.71	274.24	256.58	17.66	15.528		
2,600.00	2,592.01	2,582.47	2,574.78	9.26	323.95	-109.34	278.43	260.02	18.42	15.119		
2,700.00	2,691.44	2,682.36	2,674.11	9.64	331.20	-116.97	282.64	263.47	19.17	14.741		
2,800.00	2,790.87	2,782.25	2,773.45	10.03	338.46	-124.60	286.86	266.92	19.93	14.392		
2,900.00	2,890.30	2,882.14	2,872.78	10.41	345.71	-132.23	291.09	270.40	20.69	14.069		
3,000.00	2,989.72	2,982.04	2,972.12	10.79	352.96	-139.86	295.33	273.88	21.45	13.769		
3,100.00	3,089.15	3,081.93	3,071.46	11.17	360.22	-147.49	299.58	277.37	22.21	13.489		
3,200.00	3,188.58	3,181.82	3,170.79	11.56	367.47	-155.12	303.85	280.88	22.97	13.228		
3,300.00	3,288.01	3,281.71	3,270.13	11.94	374.73	-162.75	308.12	284.39	23.73	12.984		
3,400.00	3,387.43	3,381.61	3,369.46	12.32	381.98	-170.38	312.41	287.92	24.49	12.755		
3,500.00	3,486.86	3,481.50	3,468.80	12.70	389.24	-178.01	316.71	291.45	25.25	12.541		
3,600.00	3,586.29	3,581.39	3,568.14	13.09	396.49	-185.64	321.01	294.99	26.02	12.338		
3,700.00	3,685.72	3,681.28	3,667.47	13.47	403.74	-193.27	325.33	298.55	26.78	12.148		
3,800.00	3,785.15	3,781.18	3,766.81	13.86	411.00	-200.90	329.65	302.11	27.54	11.968		
3,900.00	3,884.60	3,881.07	3,866.15	14.24	418.25	-208.53	334.01	305.71	28.31	11.800		
4,000.00	3,984.31	3,980.94	3,965.46	14.61	425.51	-216.16	338.71	309.66	29.05	11.658		
4,100.00	4,084.23	4,080.69	4,064.65	14.97	432.75	-223.78	343.85	314.07	29.78	11.545		
4,200.00	4,184.22	4,180.20	4,163.61	15.31	439.98	-231.38	349.54	319.05	30.49	11.463		
4,300.00	4,284.22	4,279.64	4,262.49	15.65	447.20	-238.98	355.55	324.35	31.20	11.397		
4,400.00	4,384.22	4,379.08	4,361.38	15.99	454.42	-246.57	361.76	329.86	31.90	11.340		
4,500.00	4,484.22	4,478.52	4,460.27	16.33	461.64	-254.17	368.17	335.57	32.60	11.292		
4,600.00	4,584.22	4,577.97	4,559.16	16.67	468.86	-261.77	374.77	341.46	33.31	11.252		
4,700.00	4,684.22	4,677.41	4,658.05	17.02	476.08	-269.36	381.54	347.53	34.01	11.218		
4,800.00	4,784.22	4,782.72	4,762.85	17.36	483.23	-276.87	388.04	353.29	34.75	11.168		
4,900.00	4,884.22	4,892.55	4,872.44	17.70	488.04	-281.94	392.30	356.82	35.49	11.055		
5,000.00	4,984.22	5,002.75	4,982.60	18.05	489.96	-283.96	394.01	357.81	36.20	10.884		
5,100.00	5,084.22	5,104.37	5,084.22	18.39	490.00	-284.00	394.05	357.15	36.89	10.681		

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com (Slot 1)
Site Error: 0.00 usft
Reference Well: #135H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #135H
TVD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
MD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
North Reference: Grid
Survey/Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner
Offset TVD Reference: Offset Datum

Leatherneck 3029 Fed Com (Slot 1) - #241H - OH - Prelim A														Offset Site Error	0.00 usft
Survey Program: 0-MWD-HDGM														Offset Well Error	0.00 usft
Reference	Vertical	Offset	Vertical	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Minimum	Separation	Warning		
Measured	Depth	Depth	Depth	Reference	Depth	Depth	Toolface	N/S	E/W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
5,200.00	5,184.22	5,204.37	5,184.22	18.74	19.08	0.87		490.00	-284.00	394.05	358.46	37.58	10.485		
5,300.00	5,284.22	5,304.37	5,284.22	19.08	19.42	0.87		490.00	-284.00	394.05	355.77	38.27	10.296		
5,400.00	5,384.22	5,404.37	5,384.22	19.43	19.76	0.87		490.00	-284.00	394.05	355.08	38.97	10.113		
5,500.00	5,484.22	5,504.37	5,484.22	19.77	20.11	0.87		490.00	-284.00	394.05	354.39	39.66	9.936		
5,600.00	5,584.22	5,604.37	5,584.22	20.12	20.45	0.87		490.00	-284.00	394.05	353.69	40.35	9.765		
5,700.00	5,684.22	5,704.37	5,684.22	20.47	20.79	0.87		490.00	-284.00	394.05	353.00	41.05	9.600		
5,800.00	5,784.22	5,804.37	5,784.22	20.82	21.14	0.87		490.00	-284.00	394.05	352.30	41.74	9.440		
5,900.00	5,884.22	5,904.37	5,884.22	21.16	21.48	0.87		490.00	-284.00	394.05	351.61	42.44	9.285		
6,000.00	5,984.22	6,004.37	5,984.22	21.51	21.83	0.87		490.00	-284.00	394.05	350.91	43.14	9.135		
6,100.00	6,084.22	6,104.37	6,084.22	21.86	22.17	0.87		490.00	-284.00	394.05	350.21	43.83	8.990		
6,200.00	6,184.22	6,204.37	6,184.22	22.21	22.52	0.87		490.00	-284.00	394.05	349.51	44.53	8.849		
6,300.00	6,284.22	6,304.37	6,284.22	22.56	22.86	0.87		490.00	-284.00	394.05	348.82	45.23	8.712		
6,400.00	6,384.22	6,404.37	6,384.22	22.91	23.21	0.87		490.00	-284.00	394.05	348.12	45.93	8.579		
6,500.00	6,484.22	6,504.37	6,484.22	23.26	23.56	0.87		490.00	-284.00	394.05	347.42	46.63	8.451		
6,600.00	6,584.22	6,604.37	6,584.22	23.61	23.91	0.87		490.00	-284.00	394.05	346.72	47.33	8.325		
6,700.00	6,684.22	6,704.37	6,684.22	23.96	24.25	0.87		490.00	-284.00	394.05	346.01	48.03	8.204		
6,800.00	6,784.22	6,804.37	6,784.22	24.31	24.60	0.87		490.00	-284.00	394.05	345.31	48.73	8.086		
6,900.00	6,884.22	6,904.37	6,884.22	24.66	24.95	0.87		490.00	-284.00	394.05	344.61	49.43	7.971		
7,000.00	6,984.22	7,004.37	6,984.22	25.01	25.30	0.87		490.00	-284.00	394.05	343.91	50.14	7.859		
7,100.00	7,084.22	7,104.37	7,084.22	25.36	25.65	0.87		490.00	-284.00	394.05	343.21	50.84	7.751		
7,200.00	7,184.22	7,204.37	7,184.22	25.71	26.00	0.87		490.00	-284.00	394.05	342.50	51.54	7.645		
7,300.00	7,284.22	7,304.37	7,284.22	26.07	26.35	0.87		490.00	-284.00	394.05	341.80	52.25	7.542		
7,400.00	7,384.22	7,404.37	7,384.22	26.42	26.70	0.87		490.00	-284.00	394.05	341.10	52.95	7.442		
7,500.00	7,484.22	7,504.37	7,484.22	26.77	27.05	0.87		490.00	-284.00	394.05	340.39	53.65	7.344		
7,600.00	7,584.22	7,604.37	7,584.22	27.12	27.40	0.87		490.00	-284.00	394.05	339.69	54.36	7.249		
7,700.00	7,684.22	7,704.37	7,684.22	27.48	27.75	0.87		490.00	-284.00	394.05	338.98	55.06	7.156		
7,800.00	7,784.22	7,804.37	7,784.22	27.83	28.10	0.87		490.00	-284.00	394.05	338.28	55.77	7.066		
7,900.00	7,884.22	7,904.37	7,884.22	28.18	28.45	0.87		490.00	-284.00	394.05	337.57	56.47	6.978		
8,000.00	7,984.22	8,004.37	7,984.22	28.53	28.80	0.87		490.00	-284.00	394.05	336.87	57.18	6.891		
8,100.00	8,084.22	8,104.37	8,084.22	28.89	29.15	0.87		490.00	-284.00	394.05	336.16	57.88	6.807		
8,200.00	8,184.22	8,204.37	8,184.22	29.24	29.50	0.87		490.00	-284.00	394.05	335.45	58.59	6.725		
8,300.00	8,284.22	8,304.37	8,284.22	29.59	29.85	0.87		490.00	-284.00	394.05	334.75	59.30	6.645		
8,400.00	8,384.22	8,404.37	8,384.22	29.95	30.20	0.87		490.00	-284.00	394.05	334.04	60.00	6.567		
8,500.00	8,484.22	8,504.37	8,484.22	30.30	30.56	0.87		490.00	-284.00	394.05	333.33	60.71	6.491		
8,501.97	8,486.19	8,506.34	8,486.19	30.31	30.56	-101.23		490.00	-284.00	394.05	333.32	60.72	6.489		
8,600.00	8,584.17	8,604.31	8,584.17	30.65	30.91	-101.47		490.00	-284.00	394.43	333.02	61.41	6.423		
8,700.00	8,682.61	8,702.75	8,682.61	30.96	31.25	-103.44		490.00	-284.00	398.13	336.09	62.05	6.417		
8,800.00	8,776.63	8,803.23	8,776.63	31.24	31.61	-106.89		490.00	-284.00	407.53	344.89	62.65	6.505		
8,900.00	8,863.36	8,883.51	8,863.36	31.52	31.89	-110.81		490.00	-284.00	425.83	362.69	63.14	6.744		
9,000.00	8,940.19	8,960.33	8,940.19	31.81	32.16	-114.03		490.00	-284.00	456.31	392.72	63.59	7.176		
9,100.00	9,004.76	9,024.90	9,004.76	32.12	32.39	-115.47		490.00	-284.00	500.98	437.00	63.98	7.830		
9,200.00	9,055.12	9,075.26	9,055.12	32.51	32.57	-114.11		490.00	-284.00	559.82	495.53	64.29	8.708		
9,300.00	9,089.74	9,109.88	9,089.74	32.98	32.69	-108.78		490.00	-284.00	630.92	566.40	64.52	9.779		
9,400.00	9,107.57	9,127.71	9,107.57	33.55	32.75	-98.09		490.00	-284.00	711.14	646.48	64.66	10.998		
9,500.00	9,110.00	9,130.14	9,110.00	34.22	32.76	-90.00		490.00	-284.00	796.58	731.87	64.72	12.308		
9,600.00	9,110.00	9,130.14	9,110.00	35.02	32.76	-90.00		490.00	-284.00	883.06	818.29	64.77	13.633		
9,700.00	9,110.00	9,130.14	9,110.00	35.95	32.76	-90.00		490.00	-284.00	969.75	904.92	64.83	14.958		
9,800.00	9,110.00	10,632.76	9,960.00	37.00	39.60	-146.84		489.83	614.53	1,015.44	964.29	51.15	19.852		
9,900.00	9,110.00	10,732.75	9,960.00	38.15	40.66	-146.79		489.81	714.53	1,015.89	963.47	52.42	19.380		
10,000.00	9,110.00	10,832.75	9,960.00	39.40	41.82	-146.79		489.79	814.53	1,015.91	962.12	53.79	18.887		
10,100.00	9,110.00	10,932.75	9,960.00	40.74	43.08	-146.79		489.77	914.53	1,015.92	960.66	55.27	18.382		
10,200.00	9,110.00	11,032.75	9,960.00	42.17	44.42	-146.79		489.75	1,014.53	1,015.94	959.09	56.85	17.870		

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MDI Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2:00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #241H - OH - Prelim A													Offset Site Error:
Survey Program: 0-MWD-HDGM													Offset Well Error:
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)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	9,110.00	11,132.75	9,960.00	43.67	45.83	-146.79	489.73	1,114.53	1,015.95	957.42	58.53	17.358	
10,400.00	9,110.00	11,232.75	9,960.00	45.24	47.32	-146.79	489.71	1,214.53	1,015.97	955.67	60.30	16.850	
10,500.00	9,110.00	11,332.75	9,960.00	46.87	48.87	-146.79	489.69	1,314.53	1,015.99	953.84	62.14	16.349	
10,600.00	9,110.00	11,432.75	9,960.00	48.55	50.48	-146.78	489.67	1,414.53	1,016.00	951.94	64.06	15.860	
10,700.00	9,110.00	11,532.75	9,960.00	50.29	52.14	-146.78	489.65	1,514.53	1,016.02	949.97	66.05	15.383	
10,800.00	9,110.00	11,632.75	9,960.00	52.07	53.85	-146.78	489.63	1,614.53	1,016.03	947.94	68.09	14.921	
10,900.00	9,110.00	11,732.75	9,960.00	53.89	55.60	-146.78	489.61	1,714.53	1,016.05	945.85	70.20	14.474	
11,000.00	9,110.00	11,832.75	9,960.00	55.74	57.39	-146.78	489.59	1,814.53	1,016.06	943.71	72.35	14.044	
11,100.00	9,110.00	11,932.75	9,960.00	57.63	59.22	-146.78	489.57	1,914.53	1,016.08	941.53	74.55	13.630	
11,200.00	9,110.00	12,032.75	9,960.00	59.55	61.08	-146.78	489.56	2,014.53	1,016.09	939.30	76.79	13.232	
11,300.00	9,110.00	12,132.75	9,960.00	61.50	62.97	-146.77	489.54	2,114.53	1,016.11	937.04	79.07	12.850	
11,400.00	9,110.00	12,232.75	9,960.00	63.47	64.88	-146.77	489.52	2,214.53	1,016.12	934.74	81.39	12.485	
11,500.00	9,110.00	12,332.75	9,960.00	65.46	66.82	-146.77	489.50	2,314.53	1,016.14	932.40	83.74	12.135	
11,600.00	9,110.00	12,432.75	9,960.00	67.47	68.79	-146.77	489.48	2,414.53	1,016.16	930.04	86.12	11.800	
11,700.00	9,110.00	12,532.75	9,960.00	69.50	70.77	-146.77	489.46	2,514.53	1,016.17	927.65	88.52	11.479	
11,800.00	9,110.00	12,632.75	9,960.00	71.55	72.78	-146.77	489.44	2,614.53	1,016.19	925.23	90.95	11.172	
11,900.00	9,110.00	12,732.75	9,960.00	73.61	74.80	-146.77	489.42	2,714.53	1,016.20	922.79	93.41	10.879	
12,000.00	9,110.00	12,832.75	9,960.00	75.69	76.84	-146.77	489.40	2,814.53	1,016.22	920.33	95.89	10.598	
12,100.00	9,110.00	12,932.75	9,960.00	77.78	78.89	-146.76	489.38	2,914.53	1,016.23	917.85	98.38	10.329	
12,200.00	9,110.00	13,032.75	9,960.00	79.88	80.96	-146.76	489.36	3,014.53	1,016.25	915.35	100.90	10.072	
12,300.00	9,110.00	13,132.75	9,960.00	82.00	83.04	-146.76	489.34	3,114.53	1,016.26	912.83	103.43	9.825	
12,400.00	9,110.00	13,232.75	9,960.00	84.12	85.13	-146.76	489.32	3,214.53	1,016.28	910.30	105.98	9.589	
12,500.00	9,110.00	13,332.75	9,960.00	86.26	87.23	-146.76	489.30	3,314.53	1,016.30	907.75	108.55	9.363	
12,600.00	9,110.00	13,432.75	9,960.00	88.40	89.34	-146.76	489.28	3,414.53	1,016.31	905.19	111.12	9.146	
12,700.00	9,110.00	13,532.75	9,960.00	90.55	91.46	-146.76	489.26	3,514.53	1,016.33	902.61	113.71	8.938	
12,800.00	9,110.00	13,632.75	9,960.00	92.71	93.59	-146.75	489.25	3,614.53	1,016.34	900.02	116.32	8.738	
12,900.00	9,110.00	13,732.75	9,960.00	94.87	95.73	-146.75	489.23	3,714.53	1,016.36	897.43	118.93	8.546	
13,000.00	9,110.00	13,832.75	9,960.00	97.04	97.88	-146.75	489.21	3,814.53	1,016.37	894.82	121.56	8.361	
13,100.00	9,110.00	13,932.75	9,960.00	99.22	100.03	-146.75	489.19	3,914.53	1,016.39	892.20	124.19	8.184	
13,200.00	9,110.00	14,032.75	9,960.00	101.40	102.19	-146.75	489.17	4,014.53	1,016.40	889.57	126.83	8.014	
13,300.00	9,110.00	14,132.75	9,960.00	103.59	104.36	-146.75	489.15	4,114.53	1,016.42	886.93	129.49	7.850	
13,400.00	9,110.00	14,232.75	9,960.00	105.79	106.53	-146.75	489.13	4,214.53	1,016.43	884.29	132.15	7.692	
13,500.00	9,110.00	14,332.75	9,960.00	107.99	108.71	-146.75	489.11	4,314.53	1,016.45	881.63	134.82	7.540	
13,600.00	9,110.00	14,432.75	9,960.00	110.19	110.90	-146.74	489.09	4,414.53	1,016.47	878.97	137.49	7.393	
13,700.00	9,110.00	14,532.75	9,960.00	112.40	113.08	-146.74	489.07	4,514.53	1,016.48	876.31	140.17	7.252	
13,800.00	9,110.00	14,632.75	9,960.00	114.61	115.28	-146.74	489.05	4,614.53	1,016.50	873.63	142.86	7.115	
13,900.00	9,110.00	14,732.75	9,960.00	116.83	117.48	-146.74	489.03	4,714.53	1,016.51	870.95	145.56	6.983	
14,000.00	9,110.00	14,832.75	9,960.00	119.04	119.68	-146.74	489.01	4,814.53	1,016.53	868.27	148.26	6.856	
14,100.00	9,110.00	14,932.75	9,960.00	121.27	121.88	-146.74	488.99	4,914.53	1,016.54	865.58	150.97	6.734	
14,200.00	9,110.00	15,032.75	9,960.00	123.49	124.09	-146.74	488.97	5,014.53	1,016.56	862.88	153.68	6.615	
14,300.00	9,110.00	15,132.75	9,960.00	125.72	126.31	-146.73	488.96	5,114.53	1,016.57	860.18	156.40	6.500	
14,400.00	9,110.00	15,232.75	9,960.00	127.95	128.52	-146.73	488.94	5,214.53	1,016.59	857.47	159.12	6.389	
14,500.00	9,110.00	15,332.75	9,960.00	130.19	130.74	-146.73	488.92	5,314.53	1,016.61	854.76	161.85	6.281	
14,600.00	9,110.00	15,432.75	9,960.00	132.42	132.97	-146.73	488.90	5,414.53	1,016.62	852.04	164.58	6.177	
14,700.00	9,110.00	15,532.75	9,960.00	134.66	135.19	-146.73	488.88	5,514.53	1,016.64	849.33	167.31	6.076	
14,800.00	9,110.00	15,632.75	9,960.00	136.90	137.42	-146.73	488.86	5,614.53	1,016.65	846.60	170.05	5.979	
14,900.00	9,110.00	15,732.75	9,960.00	139.15	139.65	-146.73	488.84	5,714.53	1,016.67	843.88	172.79	5.884	
15,000.00	9,110.00	15,832.75	9,960.00	141.39	141.89	-146.73	488.82	5,814.53	1,016.68	841.15	175.54	5.792	
15,100.00	9,110.00	15,932.75	9,960.00	143.64	144.12	-146.72	488.80	5,914.53	1,016.70	838.41	178.29	5.703	
15,200.00	9,110.00	16,032.75	9,960.00	145.89	146.36	-146.72	488.78	6,014.53	1,016.71	835.67	181.04	5.616	
15,300.00	9,110.00	16,132.75	9,960.00	148.14	148.60	-146.72	488.76	6,114.53	1,016.73	832.93	183.79	5.532	
15,400.00	9,110.00	16,232.75	9,960.00	150.39	150.84	-146.72	488.74	6,214.53	1,016.74	830.19	186.55	5.450	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #135H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com (Slot 1)	MD Reference:	3238 + 28.5 = KB @ 3266.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim A	Offset TVD Reference:	Offset Datum

Offset Design: Leatherneck 3029 Fed Com (Slot 1) - #241H- OH- Prelim A												Offset Site Error:	0.00 usft
Survey Program: 0-MWD-HDGM												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum Separation		Warning	
Measured Vertical	Measured Vertical	Reference	Offset	Reference	Offset	Reference	Offset	Centres	Ellipses	Separation	Factor		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(usft)			
15,500.00	9,110.00	16,332.75	9,960.00	152.65	153.09	-146.72	488.72	6,314.53	1,016.76	827.44	189.32	5.371	
15,600.00	9,110.00	16,432.75	9,960.00	154.91	155.33	-146.72	488.70	6,414.53	1,016.78	824.70	192.08	5.294	
15,700.00	9,110.00	16,532.75	9,960.00	157.16	157.58	-146.72	488.68	6,514.53	1,016.79	821.94	194.85	5.218	
15,800.00	9,110.00	16,632.75	9,960.00	159.42	159.83	-146.71	488.66	6,614.53	1,016.81	819.19	197.62	5.145	
15,900.00	9,110.00	16,732.75	9,960.00	161.68	162.08	-146.71	488.65	6,714.53	1,016.82	816.43	200.39	5.074	
16,000.00	9,110.00	16,832.75	9,960.00	163.95	164.34	-146.71	488.63	6,814.53	1,016.84	813.68	203.16	5.005	
16,100.00	9,110.00	16,932.75	9,960.00	166.21	166.59	-146.71	488.61	6,914.53	1,016.85	810.92	205.94	4.938	
16,200.00	9,110.00	17,032.75	9,960.00	168.47	168.85	-146.71	488.59	7,014.53	1,016.87	808.15	208.72	4.872	
16,300.00	9,110.00	17,132.75	9,960.00	170.74	171.10	-146.71	488.57	7,114.53	1,016.88	805.39	211.50	4.808	
16,400.00	9,110.00	17,232.75	9,960.00	173.01	173.36	-146.71	488.55	7,214.53	1,016.90	802.62	214.28	4.746	
16,500.00	9,110.00	17,332.75	9,960.00	175.28	175.62	-146.71	488.53	7,314.53	1,016.92	799.85	217.06	4.685	
16,600.00	9,110.00	17,432.75	9,960.00	177.54	177.88	-146.70	488.51	7,414.53	1,016.93	797.08	219.85	4.626	
16,700.00	9,110.00	17,532.75	9,960.00	179.82	180.15	-146.70	488.49	7,514.53	1,016.95	794.31	222.64	4.568	
16,800.00	9,110.00	17,632.75	9,960.00	182.09	182.41	-146.70	488.47	7,614.53	1,016.96	791.53	225.43	4.511	
16,900.00	9,110.00	17,732.75	9,960.00	184.36	184.67	-146.70	488.45	7,714.53	1,016.98	788.76	228.22	4.456	
17,000.00	9,110.00	17,832.75	9,960.00	186.63	186.94	-146.70	488.43	7,814.53	1,016.99	785.98	231.01	4.402	
17,100.00	9,110.00	17,932.75	9,960.00	188.91	189.21	-146.70	488.41	7,914.53	1,017.01	783.20	233.81	4.350	
17,200.00	9,110.00	18,032.75	9,960.00	191.18	191.48	-146.70	488.39	8,014.53	1,017.02	780.42	236.60	4.298	
17,300.00	9,110.00	18,132.75	9,960.00	193.46	193.74	-146.69	488.37	8,114.53	1,017.04	777.64	239.40	4.248	
17,400.00	9,110.00	18,232.75	9,960.00	195.73	196.01	-146.69	488.36	8,214.53	1,017.05	774.85	242.20	4.199	
17,500.00	9,110.00	18,332.75	9,960.00	198.01	198.29	-146.69	488.34	8,314.53	1,017.07	772.07	245.00	4.151	
17,600.00	9,110.00	18,432.75	9,960.00	200.29	200.56	-146.69	488.32	8,414.53	1,017.09	769.28	247.80	4.104	
17,700.00	9,110.00	18,532.75	9,960.00	202.56	202.83	-146.69	488.30	8,514.53	1,017.10	766.49	250.61	4.059	
17,800.00	9,110.00	18,632.75	9,960.00	204.84	205.10	-146.69	488.28	8,614.53	1,017.12	763.70	253.41	4.014	
17,900.00	9,110.00	18,732.75	9,960.00	207.12	207.38	-146.69	488.26	8,714.53	1,017.13	760.91	256.22	3.970	
18,000.00	9,110.00	18,832.75	9,960.00	209.40	209.65	-146.69	488.24	8,814.53	1,017.15	758.12	259.03	3.927	
18,100.00	9,110.00	18,932.75	9,960.00	211.69	211.93	-146.68	488.22	8,914.53	1,017.16	755.33	261.83	3.885	
18,200.00	9,110.00	19,032.75	9,960.00	213.97	214.20	-146.68	488.20	9,014.53	1,017.18	752.54	264.64	3.844	
18,300.00	9,110.00	19,132.75	9,960.00	216.25	216.48	-146.68	488.18	9,114.53	1,017.19	749.74	267.45	3.803	
18,400.00	9,110.00	19,232.75	9,960.00	218.53	218.76	-146.68	488.16	9,214.53	1,017.21	746.95	270.26	3.764	
18,500.00	9,110.00	19,332.75	9,960.00	220.82	221.04	-146.68	488.14	9,314.53	1,017.23	744.15	273.08	3.725	
18,600.00	9,110.00	19,432.75	9,960.00	223.10	223.31	-146.68	488.12	9,414.53	1,017.24	741.35	275.89	3.687	
18,700.00	9,110.00	19,532.75	9,960.00	225.38	225.59	-146.68	488.10	9,514.53	1,017.26	738.55	278.70	3.650	
18,800.00	9,110.00	19,632.75	9,960.00	227.67	227.87	-146.68	488.08	9,614.53	1,017.27	735.75	281.52	3.614	
18,900.00	9,110.00	19,732.75	9,960.00	229.95	230.16	-146.67	488.06	9,714.53	1,017.29	732.95	284.34	3.578	
19,000.00	9,110.00	19,832.75	9,960.00	232.24	232.44	-146.67	488.05	9,814.53	1,017.30	730.15	287.15	3.543	
19,100.00	9,110.00	19,932.75	9,960.00	234.53	234.72	-146.67	488.03	9,914.53	1,017.32	727.35	289.97	3.508	
19,200.00	9,110.00	20,032.75	9,960.00	236.81	237.00	-146.67	488.01	10,014.53	1,017.33	724.54	292.79	3.475	
19,237.58	9,110.00	20,070.34	9,960.00	237.36	237.86	-146.67	488.00	10,052.11	1,017.34	723.70	293.64	3.465 SF	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com (Slot 1)
Site Error: 0.00 usft
Reference Well: #135H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #135H
TVD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
MD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
North Reference: Grid
Survey/Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Reference Depths are relative to 3238 + 28.5 = KB @ 3266.50usft (Pat Coordinates are relative to: #135H)

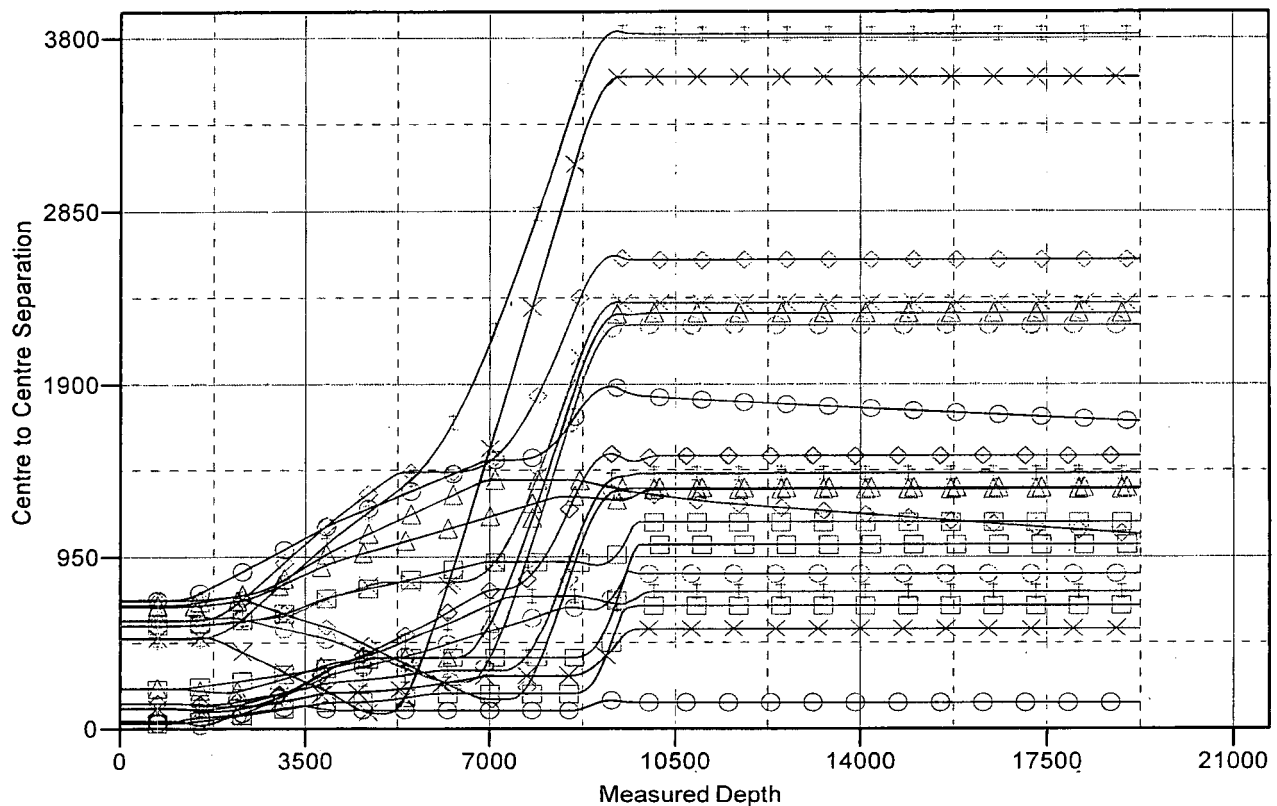
Offset Depths are relative to Offset Datum

Central Meridian is -104.333334

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

Grid Convergence at Surface is: 0.11°

Ladder Plot



LEGEND

#126H, CH, Prelim 1 VO	#105H, CH, Prelim B VO	#241H, CH, Prelim A VO
#116H, CH, Prelim B VO	#209H, CH, Prelim B VO	#209H, CH, Prelim A VO
#115H, CH, Prelim B VO	#109H, CH, Prelim B VO	#122H, CH, Prelim A VO
#242H, CH, Prelim B VO	#132H, CH, Prelim A VO	#222H, CH, Prelim A VO
#125H, CH, Prelim 1 VO	#111H, CH, Prelim A VO	#131H, CH, Prelim A VO
#136H, CH, Prelim B VO	#121H, CH, Prelim A VO	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com (Slot 1)
Site Error: 0.00 usft
Reference Well: #135H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #135H
TVD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
MD Reference: 3238 + 28.5 = KB @ 3266.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Reference Depths are relative to 3238 + 28.5 = KB @ 3266.50usft (Pat Coordinates are relative to: #135H)

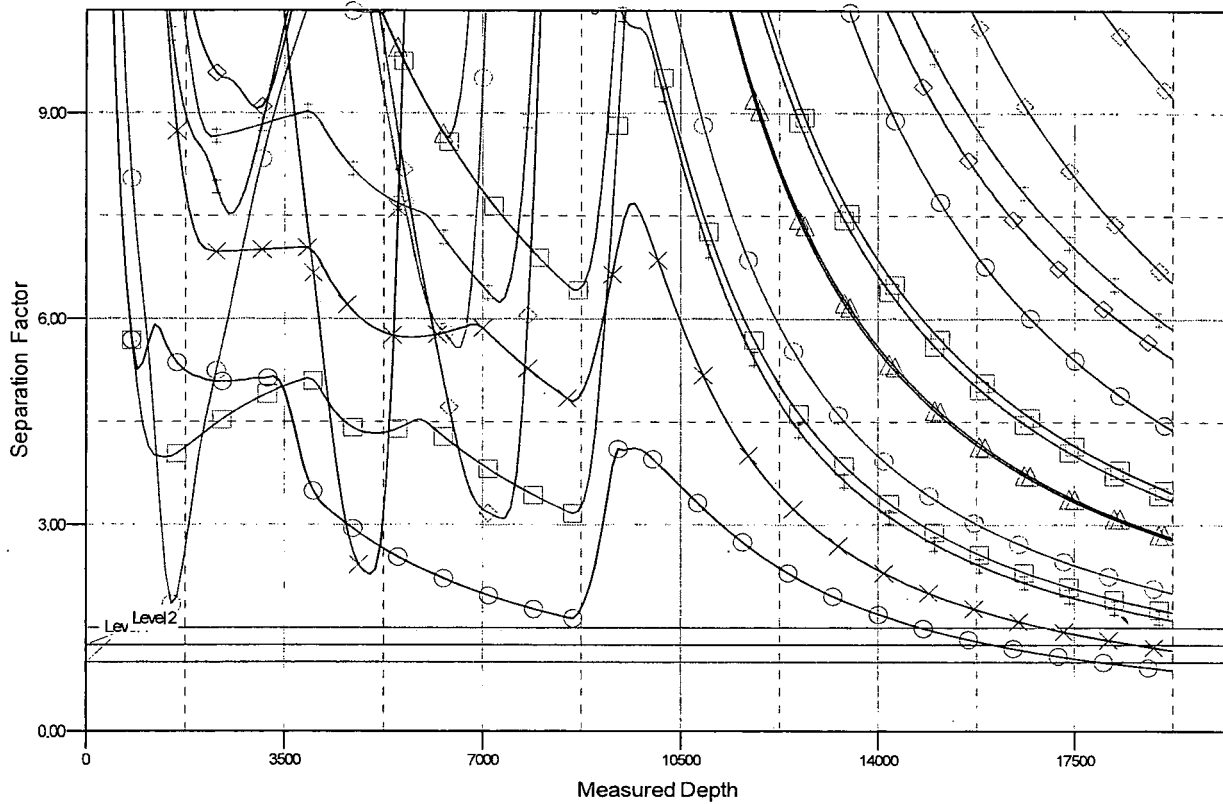
Offset Depths are relative to Offset Datum

Central Meridian is -104.333334

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

Grid Convergence at Surface is: 0.11°

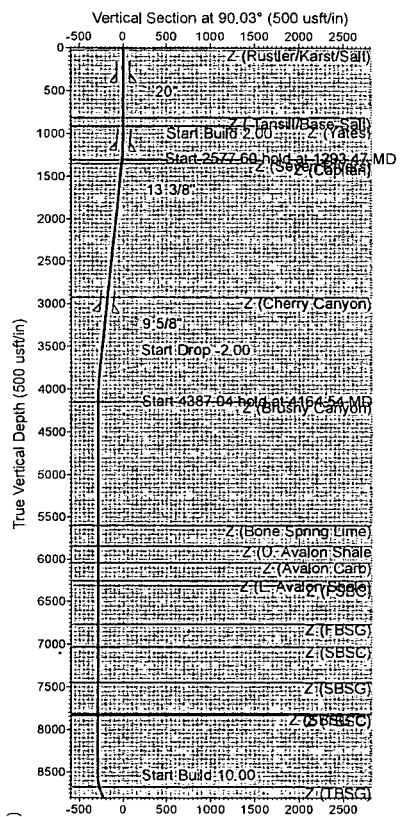
Separation Factor Plot



LEGEND

#120H, OH, Prelim 1 VO	#105H, OH, Prelim BVO	#241H, OH, Prelim AVO
#116H, OH, Prelim BVO	#205H, OH, Prelim BVO	#205H, OH, Prelim AVO
#115H, OH, Prelim BVO	#106H, OH, Prelim BVO	#122H, OH, Prelim AVO
#242H, OH, Prelim BVO	#132H, OH, Prelim AVO	#222H, OH, Prelim AVO
#125H, OH, Prelim 1 VO	#111H, OH, Prelim AVO	#111H, OH, Prelim AVO
#112H, OH, Prelim BVO	#221H, OH, Prelim AVO	#131H, OH, Prelim AVO
#135H, OH, Prelim BVO	#121H, OH, Prelim AVO	

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



Matador Resources
dy County, NM (NAD27)
rneck 3029 Fed Com (Slot 1)
#135H
Prelim A
Patt 809



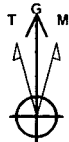
RKB Elevation: 3238 ± 28.5 ± KB @ 3266.50usft (Patt 809)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	563587.00	565451.00	32.549229	-104.120922	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Vsect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00
3	1306.63	6.13	288.32	1306.05	5.15	15.56	2.00	15.57
4	3859.14	6.13	288.32	3843.95	90.85	274.44	0.00	274.48
5	4165.78	0.00	0.00	4150.00	96.00	290.00	2.00	290.05
6	8552.82	0.00	0.00	8537.04	96.00	290.00	0.00	290.05
7	9452.82	90.00	102.10	9110.00	24.10	270.23	10.00	270.24
8	9855.24	90.00	90.03	9110.00	56.53	669.66	3.00	669.70
9	19237.58	90.00	90.03	9110.00	71.00	10052.00	0.00	10052.04

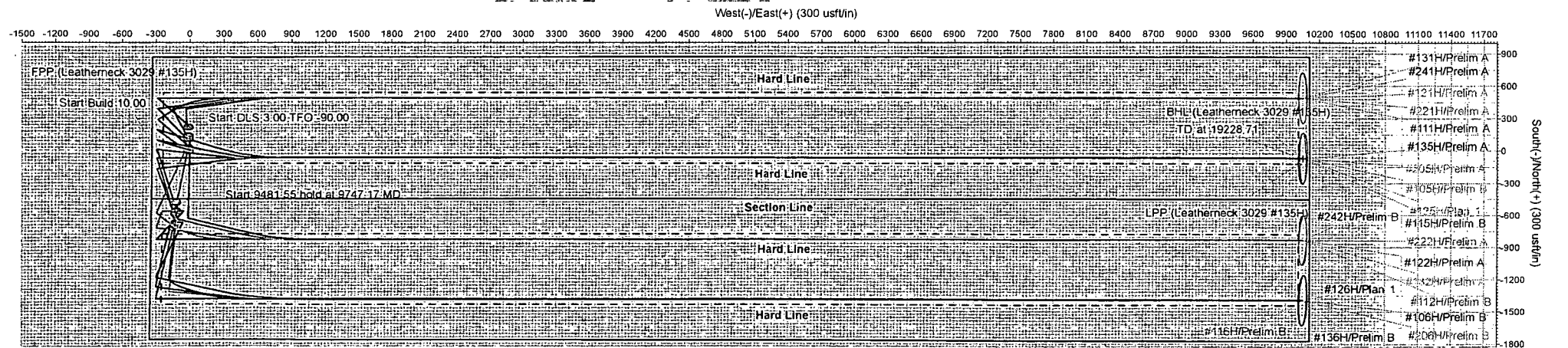
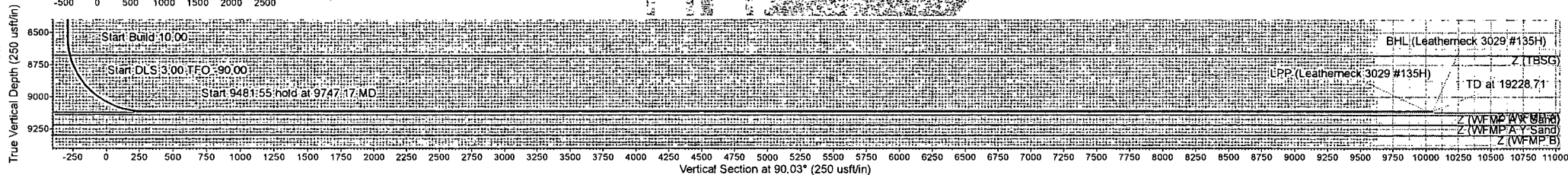
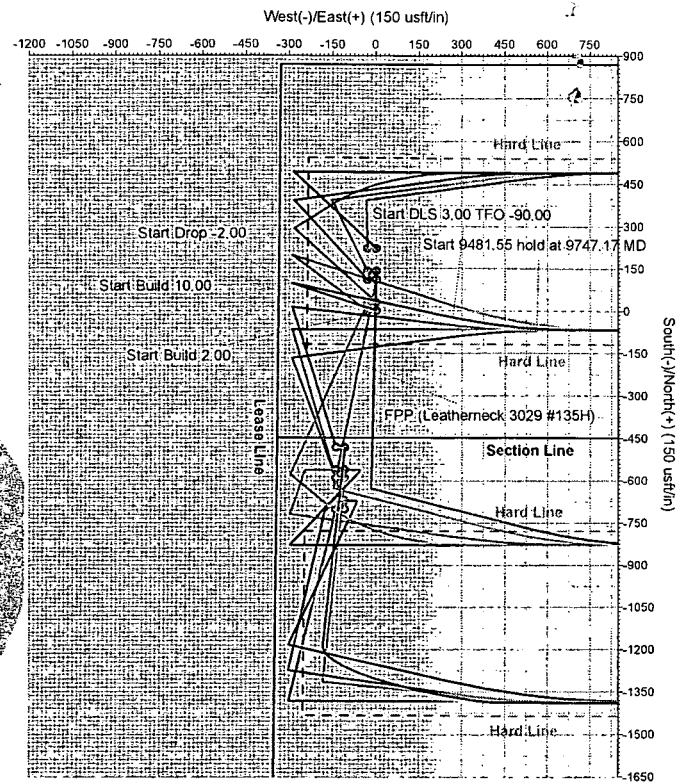
Name	TVD	+N/-S	+E/-W	Northing	Easting
FPP (Leatherneck 3029 #135H)	0.00	-116.00	-240.00	563471.00	565211.00
BHL (Leatherneck 3029 #135H)	9110.00	71.00	10052.00	563516.00	575503.00
LPP (Leatherneck 3029 #135H)	9110.00	-121.00	10012.00	563466.00	575463.00



Azimuths to Grid North
True North: -0.11°
Magnetic North: 7.09°
Magnetic Field
Strength: 47972.9nT
Dip Angle: 60.30°
Date: 6/6/2019
Model: HDGM

US State Plane 1927 (Exact solution)
NAD 1927 (NADCON CONUS)
Clarke 1856
New Mexico East 3001°
Mean Sea Level

Total Magnetic Corr. (M to G): 7.09°



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: LEASE NO.: WELL NAME & NO.: SURFACE HOLE FOOTAGE: BOTTOM HOLE FOOTAGE: LOCATION: COUNTY:	MATADOR PRODUCTION COMPANY NMNM134868 LEATHERNECK FED COM WELLS Section 30, T. 20 S., R 29 E., NMPM Eddy County, New Mexico
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COA

All previous COAs still apply expect the following:

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

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **CHERRY CANYON** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **20** inch surface casing shall be set at approximately **400** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to

- include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the 13-3/8 inch 1st 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 shall contact BLM before starting contingency plan.

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

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

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

- ❖ In High Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- ❖ **Special Capitan Reef requirements.** If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:
(Use this for 3 string wells in the Capitan Reef, if 4 string well ensure FW based mud used across the capitan interval)
 - Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
 - Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per

shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.

3. The minimum required fill of cement behind the 9-5/8 inch 2nd intermediate casing is:

Option 1 (Single Stage):

- Cement should tie-back at least **50 ft** above the Capitan Reef (**top of Reef is 1225 ft**) into previous casing string. Operator shall provide method of verification.

Option 2:

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

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. Second stage above DV tool: Cement should tie-back at least **50 ft** above the Capitan Reef (**top of Reef is 1225 ft**) into previous casing string. Operator shall provide method of verification.
4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
- Cement should tie-back **50 ft** above the Capitan Reef (**top of Reef is 1225 ft**) into the previous casing. Operator shall provide method of verification.

ZS 060719