

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.

8. Well Name and No.
LEATHERNECK FED COM 201H9. API Well No.
30-015-45983-00-X110. Field and Pool or Exploratory Area
BURTON FLAT - WOLFCAMP EAST11. County or Parish, State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

MATADOR PRODUCTION COMPANY

Contact: CADE LABOLT

Mail: cade.labolt@matadorresources.com

3a. Address

ONE LINCOLN CENTER 5400 LBJ FREEWAY SUITE
DALLAS, TX 75240

3b. Phone No. (include area code)

1500 972-629-2158

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

Sec 30 T20S R29E NWNW 660FNL 247FWL
32.549927 N Lat, 104.121719 W LonCarlsbad Field Office
OCD Artesia

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

TYPE OF SUBMISSION

- ☒
- Notice of Intent
-
- ☐
- Subsequent Report
-
- ☐
- Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|---|--|---|
| ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☐ Alter Casing | ☐ Hydraulic Fracturing | ☐ Reclamation | ☐ Well Integrity |
| ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☒ Other |
| ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporary Abandonment | Change to Original A |
| ☐ Convert to Injection | ☐ Plug Back | ☐ Well Disposal | |

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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 recomple 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. RLB0015172BLM Bond No. NMB001079
Surety Bond No. RLB0015172

The contemplated revisions included in this downhole sundry incorporate Matador's revision to the ✓
uphole well name, SHL and pool requested on sundry EC#469613 submitted on 6/18/2019 (name changed
to Leatherneck 3029 Fed Com 205H).

Please see the attached C102 to revise the BHL of Matador's Leatherneck Fed Com 201H 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 ✓

RECEIVED

JUL 23 2019

DISTRICT 7 - ARTESIA O.C.D.

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

Electronic Submission #469772 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 (19JM0070SE)

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 06/26/2019

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 **

Ref 10-22-19

Additional data for EC transaction #469772 that would not fit on the form

32. Additional remarks, continued

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.

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.

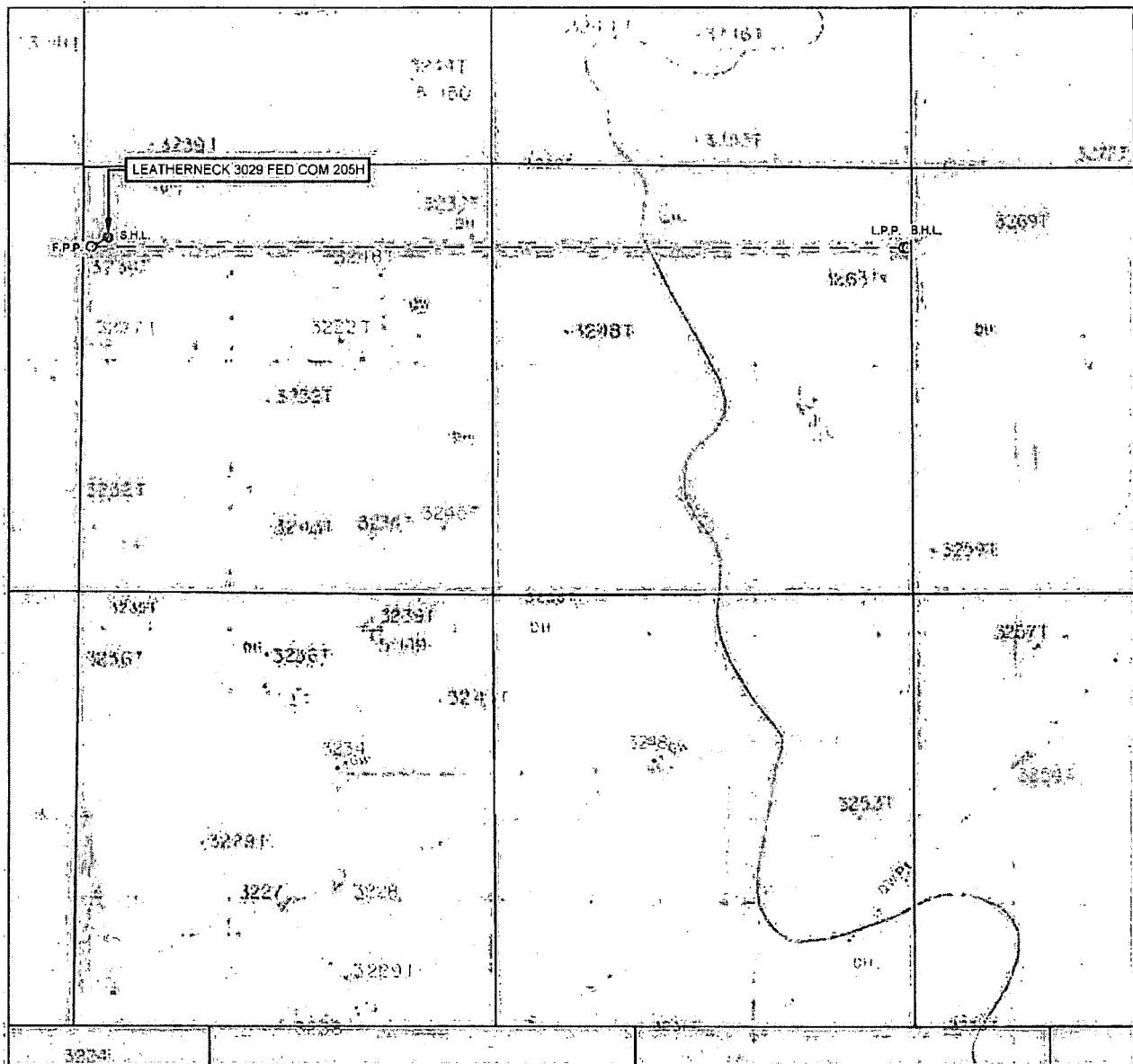
Example:

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

LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: LEATHERNECK 3029 FED COM.205H

SECTION 30 TWP 20-S RGE 29-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM ELEVATION 3238'
 DESCRIPTION 870' FNL & 309' FWL

LATITUDE N 32.5493479 LONGITUDE W.104.1215238



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.

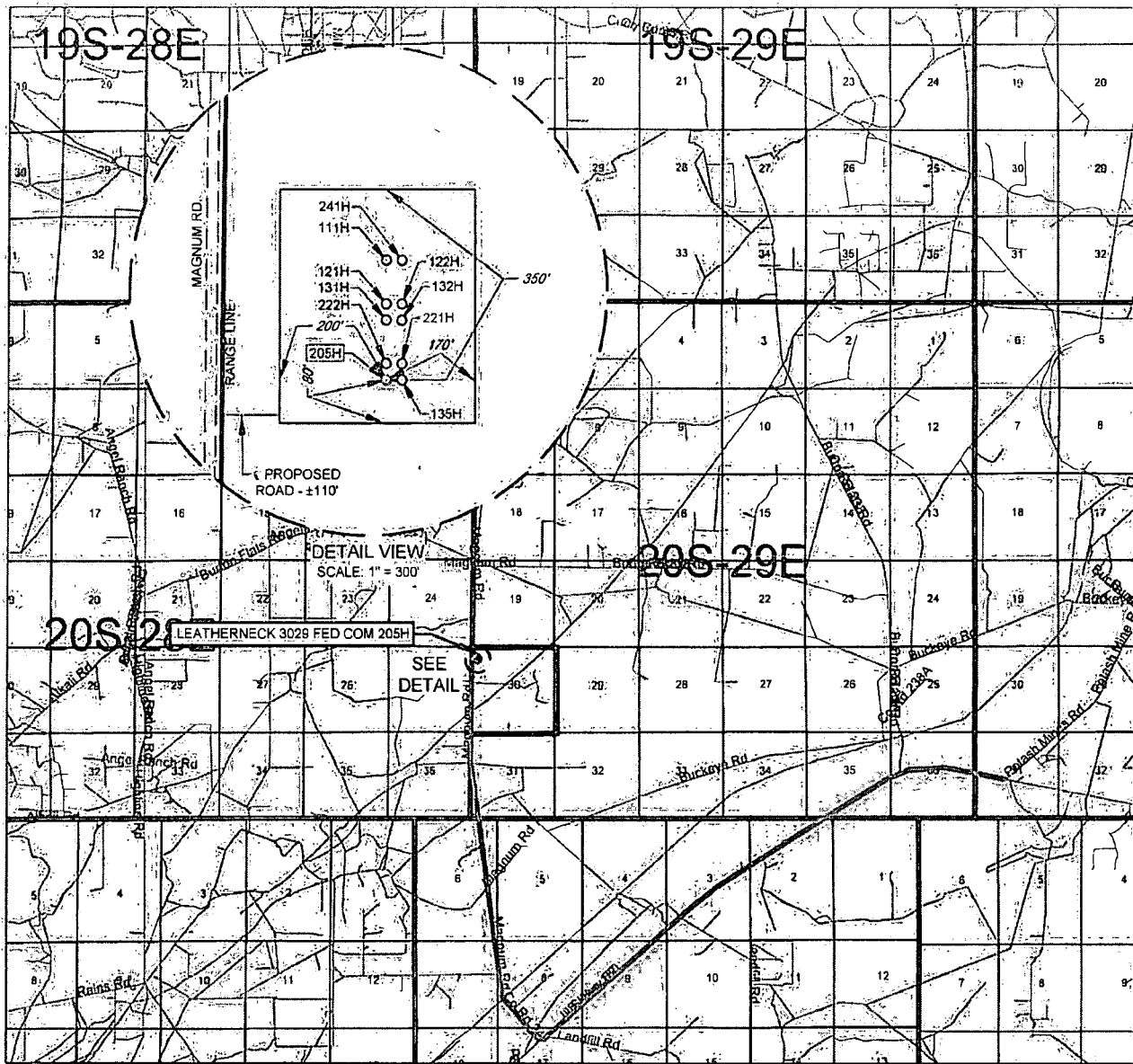
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.



TOPOGRAPHIC
 LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 148 • FT. WORTH, TEXAS 76140
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
 2303 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM

VICINITY MAP



LEASE NAME & WELL NO: LEATHERNECK 3029 FED COM 205H

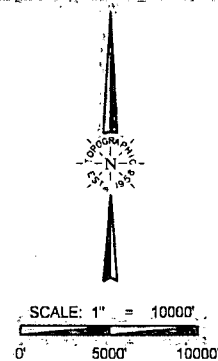
SECTION 30 TWP 20-S RGE 29-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM
 DESCRIPTION 870' FNL & 309' FWL

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 +210 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
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 MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.



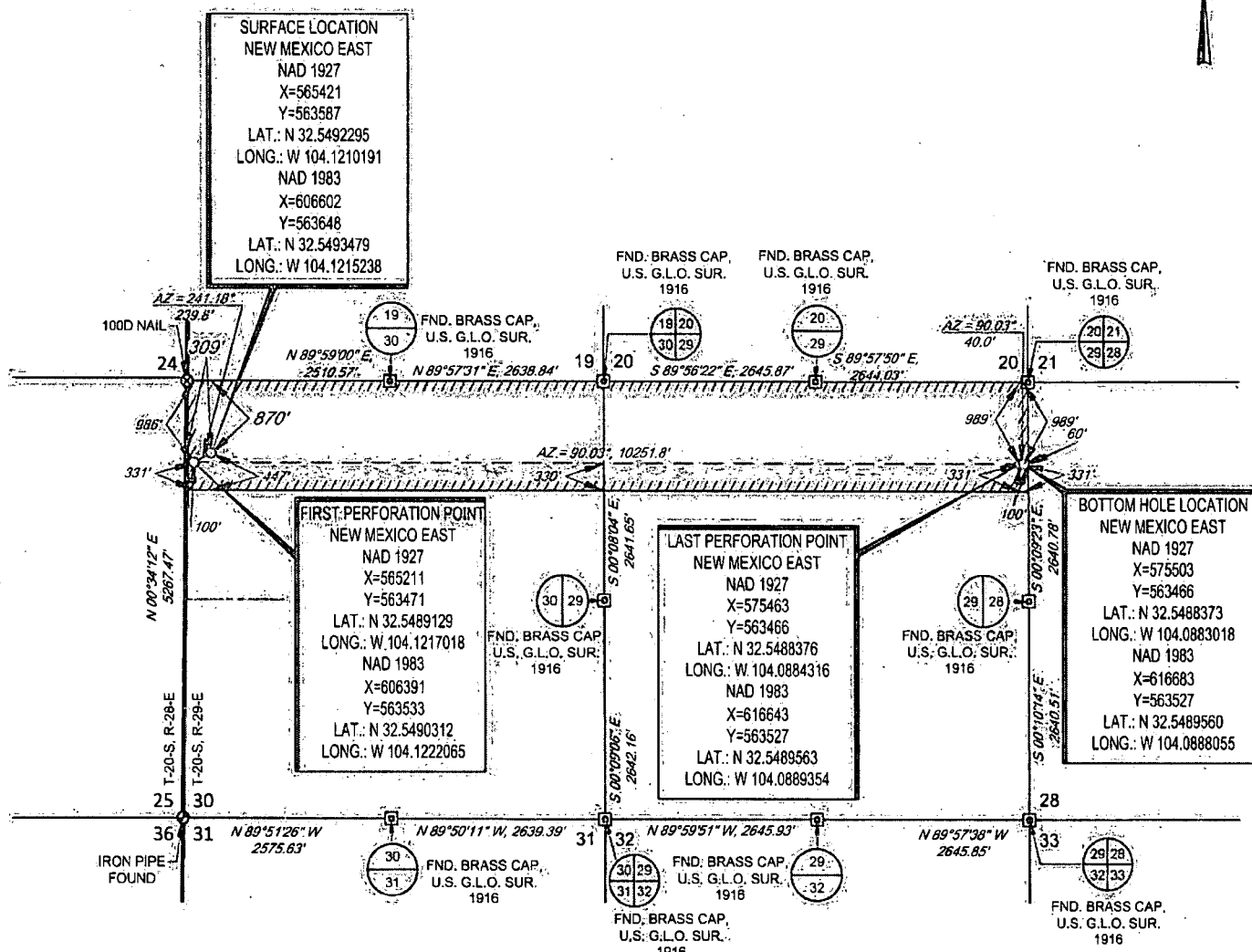
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SCALE: 1" = 2000'
0' 1000' 2000'



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



LEASE NAME & WELL NO.: LEATHERNECK 3029 FED COM 205H
SECTION 30 TWP 20-S RGE 29-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 870' FNL & 309' FWL

DISTANCE & DIRECTION

FROM INT. OF NM-360 & US-180/US-62 GO WEST ON US-180/US-62 16.8 MILES, THENCE NORTH (RIGHT) ON MAGNUM RD. 14.8 MILES, THENCE EAST (RIGHT) ON PROPOSED RD. 110 FEET TO A POINT 210 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.



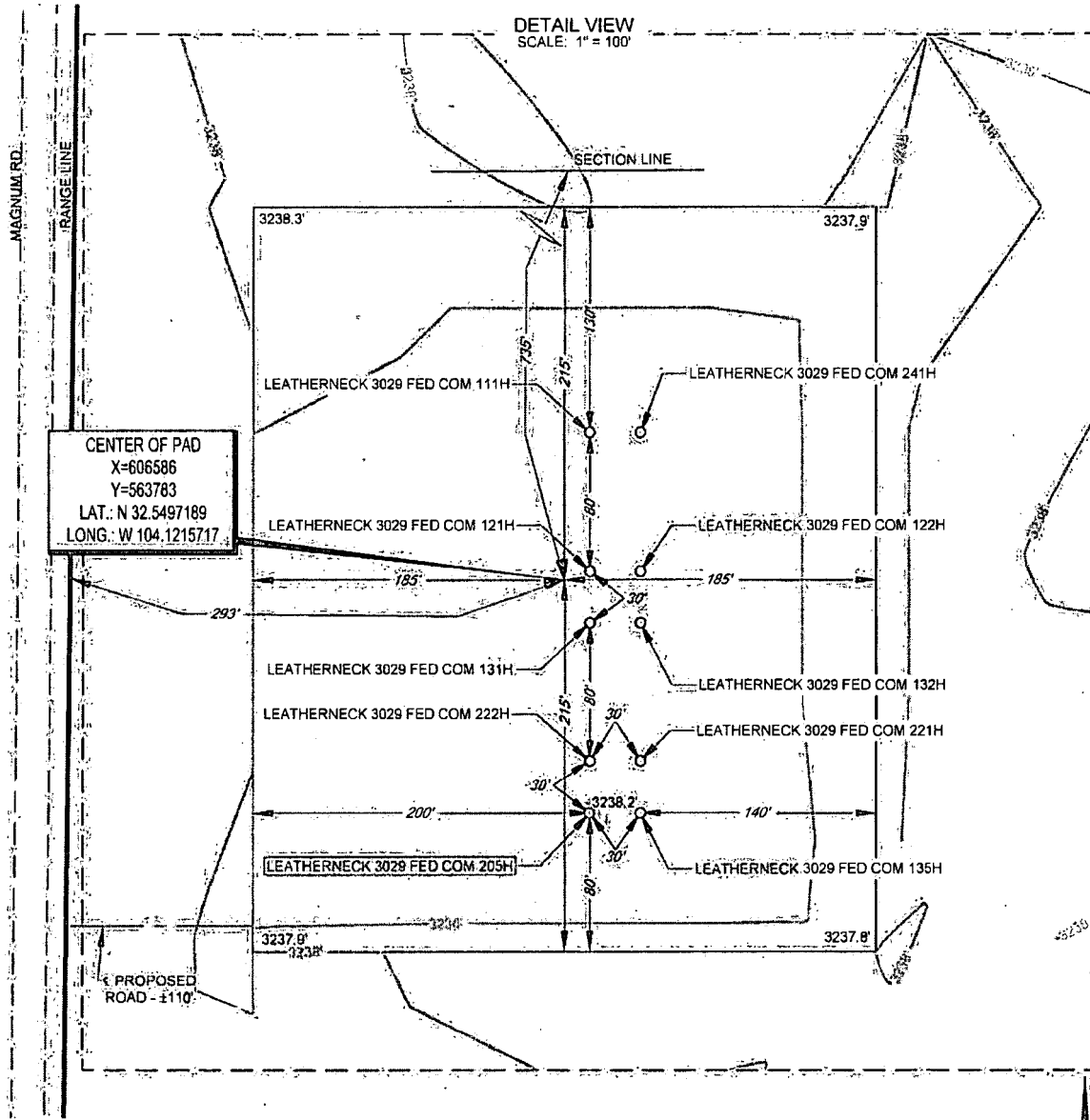
Angel M. Baeza, License No. 25116
MAY 7, 2019



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



LEGEND

LEASE NAME & WELL NO.: LEATHERNECK 3029 FED COM 205H
205H LATITUDE N.32.5493479 205H LONGITUDE W.104.1215238

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.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"



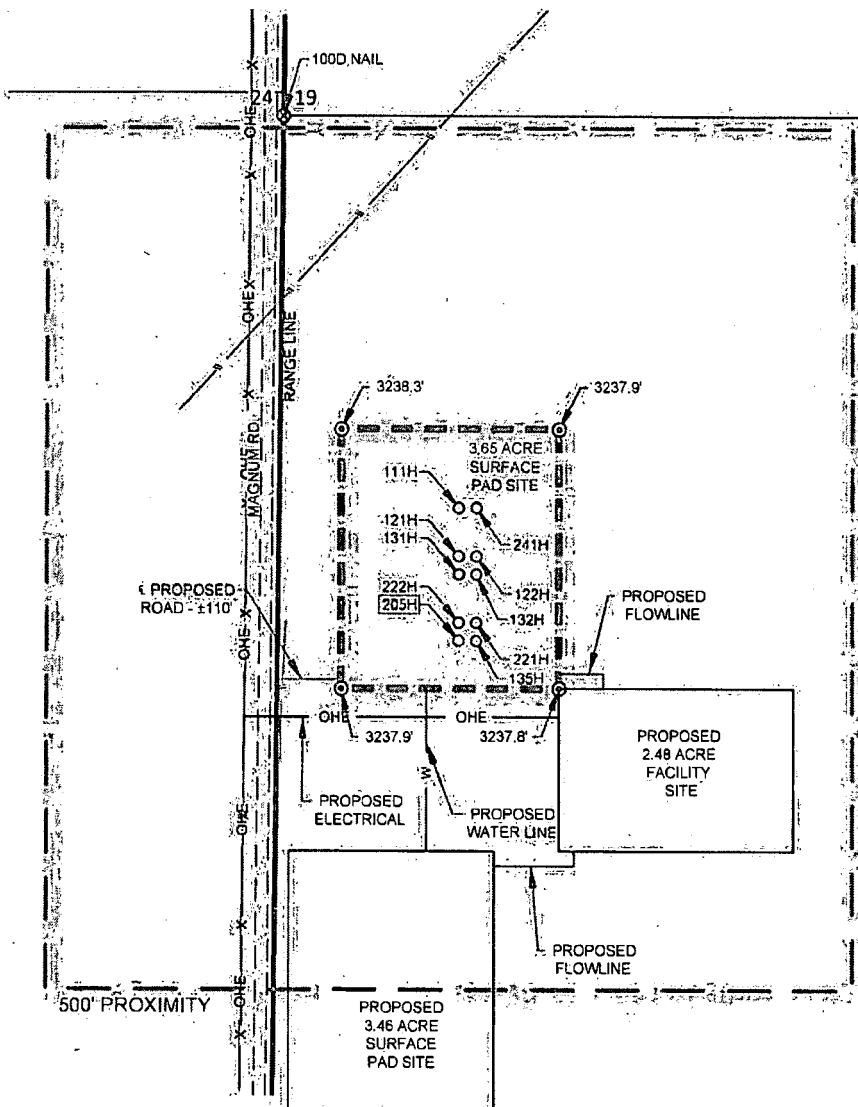
TOPOGRAPHIC

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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
- TRACT BORDER
- PROPOSED ROAD
- SECTION LINE
- RANGE LINE
- SIXTEENTH SECTION LINE
- OHE OVERHEAD ELECTRIC
- EXISTING PIPELINE
- FENCE LINE
- ROAD WAY
- GAS PROPOSED GAS
- OHE PROPOSED ELECTRIC
- PROPOSED FLOWLINE
- PROPOSED WATER
- IRON ROD SET
- NAIL FOUND



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WWW.TOPOGRAPHIC.COM



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

LEATHERNECK 3029 FED COM 205H PROXIMITY MAP	REVISION:		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.
	INT	DATE	
DATE: 05/02/19			
FILE: LO LEATHERNECK 3029 FED.COM 205H			
DRAWN BY: EAH			
SHEET: 7 OF 7			

Matador Resources

Eddy County, NM (NAD27)

Leatherneck 3029 Fed Com (Slot 1)

#205H

OH

Plan: Prelim A

Standard Planning Report

13 June, 2019

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #205H
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:	#205H	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:	From: Map	Northing:	563,727.00 usft
		Easting:	565,421.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.549614
		Longitude:	-104.121019
		Grid Convergence:	0.11 °

Well	#205H					
Well Position	+N/-S	-140.00 usft	Northing:	563,587.00 usft	Latitude:	32.549230
	+E/-W	0.00 usft	Easting:	565,421.00 usft	Longitude:	-104.121019
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,238.00 usft

Wellbore:	OH
-----------	----

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	6/6/2019	7.20	60.30	47,972.80

Design:	Prelim A
---------	----------

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	19,406.89 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	
	800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1,174.77	7.50	307.01	1,173.71	14.74	-19.55	2.00	2.00	0.00	307.01	
	3,295.48	7.50	307.01	3,276.29	181.26	-240.45	0.00	0.00	0.00	0.00	
	3,670.26	0.00	0.00	3,650.00	196.00	-260.00	2.00	-2.00	0.00	180.00	
	8,702.30	0.00	0.00	8,682.04	196.00	-260.00	0.00	0.00	0.00	0.00	
	9,602.30	90.00	107.60	9,255.00	22.75	286.14	10.00	10.00	0.00	107.60	
	10,188.06	90.00	90.03	9,255.00	-66.64	862.72	3.00	0.00	-3.00	-90.00	
	19,407.34	90.00	90.03	9,255.00	-71.00	10,082.00	0.00	0.00	0.00	0.00	BHL (Leatherneck)

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #205H
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:	#205H	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"									
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	0.31	307.01	815.50	0.03	-0.03	-0.03	2.00	2.00	0.00
Z (Tansill/Base Salt)									
900.00	2.00	307.01	899.98	1.05	-1.39	-1.39	2.00	2.00	0.00
916.53	2.33	307.01	916.50	1.43	-1.89	-1.89	2.00	2.00	0.00
Z (Yates)									
1,000.00	4.00	307.01	999.84	4.20	-5.57	-5.57	2.00	2.00	0.00
1,100.00	6.00	307.01	1,099.45	9.45	-12.53	-12.54	2.00	2.00	0.00
1,174.77	7.50	307.01	1,173.71	14.74	-19.55	-19.55	2.00	2.00	0.00
1,200.00	7.50	307.01	1,198.72	16.72	-22.17	-22.18	0.00	0.00	0.00
1,201.29	7.50	307.01	1,200.00	16.82	-22.31	-22.32	0.00	0.00	0.00
13 3/8"									
1,300.00	7.50	307.01	1,297.86	24.57	-32.59	-32.60	0.00	0.00	0.00
1,308.71	7.50	307.01	1,306.50	25.25	-33.50	-33.51	0.00	0.00	0.00
Z (Seven Rivers)									
1,354.10	7.50	307.01	1,351.50	28.82	-38.23	-38.24	0.00	0.00	0.00
Z (Capitan)									
1,400.00	7.50	307.01	1,397.01	32.42	-43.01	-43.03	0.00	0.00	0.00
1,500.00	7.50	307.01	1,496.15	40.27	-53.42	-53.45	0.00	0.00	0.00
1,600.00	7.50	307.01	1,595.30	48.13	-63.84	-63.87	0.00	0.00	0.00
1,700.00	7.50	307.01	1,694.44	55.98	-74.26	-74.29	0.00	0.00	0.00
1,800.00	7.50	307.01	1,793.59	63.83	-84.67	-84.71	0.00	0.00	0.00
1,900.00	7.50	307.01	1,892.74	71.68	-95.09	-95.13	0.00	0.00	0.00
2,000.00	7.50	307.01	1,991.88	79.54	-105.51	-105.55	0.00	0.00	0.00
2,100.00	7.50	307.01	2,091.03	87.39	-115.92	-115.97	0.00	0.00	0.00
2,200.00	7.50	307.01	2,190.17	95.24	-126.34	-126.39	0.00	0.00	0.00
2,300.00	7.50	307.01	2,289.32	103.09	-136.76	-136.81	0.00	0.00	0.00
2,400.00	7.50	307.01	2,388.46	110.95	-147.17	-147.23	0.00	0.00	0.00
2,500.00	7.50	307.01	2,487.61	118.80	-157.59	-157.65	0.00	0.00	0.00
2,600.00	7.50	307.01	2,586.75	126.65	-168.01	-168.07	0.00	0.00	0.00
2,700.00	7.50	307.01	2,685.90	134.50	-178.42	-178.49	0.00	0.00	0.00
2,800.00	7.50	307.01	2,785.04	142.36	-188.84	-188.91	0.00	0.00	0.00
2,900.00	7.50	307.01	2,884.19	150.21	-199.26	-199.34	0.00	0.00	0.00
2,939.65	7.50	307.01	2,923.50	153.32	-203.39	-203.47	0.00	0.00	0.00
Z (Cherry Canyon)									
3,000.00	7.50	307.01	2,983.34	158.06	-209.67	-209.76	0.00	0.00	0.00
3,100.00	7.50	307.01	3,082.48	165.91	-220.09	-220.18	0.00	0.00	0.00
3,117.67	7.50	307.01	3,100.00	167.30	-221.93	-222.02	0.00	0.00	0.00
9 5/8"									
3,200.00	7.50	307.01	3,181.63	173.77	-230.51	-230.60	0.00	0.00	0.00
3,295.48	7.50	307.01	3,276.29	181.26	-240.45	-240.55	0.00	0.00	0.00
3,300.00	7.41	307.01	3,280.77	181.62	-240.92	-241.02	2.00	-2.00	0.00

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #205H
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:	#205H	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)	
3,400.00	5.41	307.01	3,380.14	188.33	-249.83	-249.93	2.00	-2.00	0.00	
3,500.00	3.41	307.01	3,479.84	192.96	-255.96	-256.06	2.00	-2.00	0.00	
3,600.00	1.41	307.01	3,579.75	195.48	-259.31	-259.41	2.00	-2.00	0.00	
3,670.26	0.00	0.00	3,650.00	196.00	-260.00	-260.10	2.00	-2.00	0.00	
3,700.00	0.00	0.00	3,679.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
3,800.00	0.00	0.00	3,779.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
3,900.00	0.00	0.00	3,879.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
4,000.00	0.00	0.00	3,979.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
4,100.00	0.00	0.00	4,079.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
4,169.76	0.00	0.00	4,149.50	196.00	-260.00	-260.10	0.00	0.00	0.00	
Z (Brushy Canyon)										
4,200.00	0.00	0.00	4,179.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
4,300.00	0.00	0.00	4,279.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
4,400.00	0.00	0.00	4,379.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,479.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,579.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,679.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,779.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,879.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,979.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,079.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,179.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,279.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,379.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,479.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,579.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
5,613.76	0.00	0.00	5,593.50	196.00	-260.00	-260.10	0.00	0.00	0.00	
Z (Bone Spring Lime)										
5,700.00	0.00	0.00	5,679.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,779.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
5,858.76	0.00	0.00	5,838.50	196.00	-260.00	-260.10	0.00	0.00	0.00	
Z (U. Avalon Shale)										
5,900.00	0.00	0.00	5,879.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,979.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
6,052.76	0.00	0.00	6,032.50	196.00	-260.00	-260.10	0.00	0.00	0.00	
Z (Avalon Carb)										
6,100.00	0.00	0.00	6,079.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,179.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
6,268.76	0.00	0.00	6,248.50	196.00	-260.00	-260.10	0.00	0.00	0.00	
Z (L. Avalon Shale)										
6,300.00	0.00	0.00	6,279.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
6,325.76	0.00	0.00	6,305.50	196.00	-260.00	-260.10	0.00	0.00	0.00	
Z (FSBC)										
6,400.00	0.00	0.00	6,379.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,479.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,579.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,679.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
6,780.76	0.00	0.00	6,760.50	196.00	-260.00	-260.10	0.00	0.00	0.00	
Z (FBSG)										
6,800.00	0.00	0.00	6,779.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,879.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,979.74	196.00	-260.00	-260.10	0.00	0.00	0.00	
7,042.76	0.00	0.00	7,022.50	196.00	-260.00	-260.10	0.00	0.00	0.00	

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #205H
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:	Leatheneck 3029 Fed Com (Slot 1)	North Reference:	Grid
Well:	#205H	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)
Z (SBSG)									
7,100.00	0.00	0.00	7,079.74	196.00	-260.00	-260.10	0.00	0.00	0.00
7,200.00	0.00	0.00	7,179.74	196.00	-260.00	-260.10	0.00	0.00	0.00
7,300.00	0.00	0.00	7,279.74	196.00	-260.00	-260.10	0.00	0.00	0.00
7,400.00	0.00	0.00	7,379.74	196.00	-260.00	-260.10	0.00	0.00	0.00
7,466.76	0.00	0.00	7,446.50	196.00	-260.00	-260.10	0.00	0.00	0.00
Z (SBSG)									
7,500.00	0.00	0.00	7,479.74	196.00	-260.00	-260.10	0.00	0.00	0.00
7,600.00	0.00	0.00	7,579.74	196.00	-260.00	-260.10	0.00	0.00	0.00
7,700.00	0.00	0.00	7,679.74	196.00	-260.00	-260.10	0.00	0.00	0.00
7,800.00	0.00	0.00	7,779.74	196.00	-260.00	-260.10	0.00	0.00	0.00
7,833.76	0.00	0.00	7,813.50	196.00	-260.00	-260.10	0.00	0.00	0.00
Z (SBSG C)									
7,849.76	0.00	0.00	7,829.50	196.00	-260.00	-260.10	0.00	0.00	0.00
Z (TBSC)									
7,900.00	0.00	0.00	7,879.74	196.00	-260.00	-260.10	0.00	0.00	0.00
8,000.00	0.00	0.00	7,979.74	196.00	-260.00	-260.10	0.00	0.00	0.00
8,100.00	0.00	0.00	8,079.74	196.00	-260.00	-260.10	0.00	0.00	0.00
8,200.00	0.00	0.00	8,179.74	196.00	-260.00	-260.10	0.00	0.00	0.00
8,300.00	0.00	0.00	8,279.74	196.00	-260.00	-260.10	0.00	0.00	0.00
8,400.00	0.00	0.00	8,379.74	196.00	-260.00	-260.10	0.00	0.00	0.00
8,500.00	0.00	0.00	8,479.74	196.00	-260.00	-260.10	0.00	0.00	0.00
8,600.00	0.00	0.00	8,579.74	196.00	-260.00	-260.10	0.00	0.00	0.00
8,695.76	0.00	0.00	8,675.50	196.00	-260.00	-260.10	0.00	0.00	0.00
Z (TBSG)									
8,702.30	0.00	0.00	8,682.04	196.00	-260.00	-260.10	0.00	0.00	0.00
8,750.00	4.77	107.60	8,729.69	195.40	-258.11	-258.21	10.00	10.00	0.00
8,800.00	9.77	107.60	8,779.27	193.49	-252.08	-252.18	10.00	10.00	0.00
8,850.00	14.77	107.60	8,828.11	190.28	-241.95	-242.05	10.00	10.00	0.00
8,900.00	19.77	107.60	8,875.84	185.79	-227.81	-227.91	10.00	10.00	0.00
8,950.00	24.77	107.60	8,922.10	180.06	-209.75	-209.85	10.00	10.00	0.00
9,000.00	29.77	107.60	8,966.53	173.14	-187.92	-188.01	10.00	10.00	0.00
9,050.00	34.77	107.60	9,008.79	165.07	-162.48	-162.57	10.00	10.00	0.00
9,100.00	39.77	107.60	9,048.57	155.91	-133.63	-133.71	10.00	10.00	0.00
9,150.00	44.77	107.60	9,085.55	145.75	-101.59	-101.66	10.00	10.00	0.00
9,200.00	49.77	107.60	9,119.47	134.65	-66.59	-66.66	10.00	10.00	0.00
9,201.60	49.93	107.60	9,120.50	134.28	-65.42	-65.49	10.00	10.00	0.00
Z (WFMP A)									
9,228.78	52.65	107.60	9,137.50	127.86	-45.21	-45.27	10.00	10.00	0.00
Z (WFMP A X Sand)									
9,250.00	54.77	107.60	9,150.06	122.69	-28.91	-28.97	10.00	10.00	0.00
9,300.00	59.77	107.60	9,177.08	109.98	11.17	11.12	10.00	10.00	0.00
9,350.00	64.77	107.60	9,200.34	96.60	53.35	53.30	10.00	10.00	0.00
9,391.07	68.88	107.60	9,216.50	85.19	89.33	89.28	10.00	10.00	0.00
Z (WFMP A Y Sand)									
9,400.00	69.77	107.60	9,219.65	82.66	97.29	97.25	10.00	10.00	0.00
9,450.00	74.77	107.60	9,234.88	68.26	142.67	142.64	10.00	10.00	0.00
9,500.00	79.77	107.60	9,245.89	53.52	189.15	189.12	10.00	10.00	0.00
9,550.00	84.77	107.60	9,252.61	38.55	236.36	236.34	10.00	10.00	0.00
9,602.30	90.00	107.60	9,255.00	22.75	286.14	286.13	10.00	10.00	0.00
9,700.00	90.00	104.67	9,255.00	-4.39	379.98	379.98	3.00	0.00	-3.00
9,800.00	90.00	101.67	9,255.00	-27.17	477.34	477.36	3.00	0.00	-3.00
9,900.00	90.00	98.67	9,255.00	-44.83	575.76	575.78	3.00	0.00	-3.00

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #205H
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:	#205H	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)
10,000.00	90.00	95.67	9,255.00	-57.30	674.97	675.00	3.00	0.00	-3.00
10,100.00	90.00	92.67	9,255.00	-64.57	774.69	774.72	3.00	0.00	-3.00
10,188.06	90.00	90.03	9,255.00	-66.64	862.72	862.75	3.00	0.00	-3.00
10,200.00	90.00	90.03	9,255.00	-66.65	874.66	874.69	0.00	0.00	0.00
10,300.00	90.00	90.03	9,255.00	-66.70	974.66	974.69	0.00	0.00	0.00
10,400.00	90.00	90.03	9,255.00	-66.74	1,074.66	1,074.69	0.00	0.00	0.00
10,500.00	90.00	90.03	9,255.00	-66.79	1,174.66	1,174.69	0.00	0.00	0.00
10,600.00	90.00	90.03	9,255.00	-66.84	1,274.66	1,274.69	0.00	0.00	0.00
10,700.00	90.00	90.03	9,255.00	-66.89	1,374.66	1,374.69	0.00	0.00	0.00
10,800.00	90.00	90.03	9,255.00	-66.93	1,474.66	1,474.69	0.00	0.00	0.00
10,900.00	90.00	90.03	9,255.00	-66.98	1,574.66	1,574.69	0.00	0.00	0.00
11,000.00	90.00	90.03	9,255.00	-67.03	1,674.66	1,674.69	0.00	0.00	0.00
11,100.00	90.00	90.03	9,255.00	-67.08	1,774.66	1,774.69	0.00	0.00	0.00
11,200.00	90.00	90.03	9,255.00	-67.12	1,874.66	1,874.69	0.00	0.00	0.00
11,300.00	90.00	90.03	9,255.00	-67.17	1,974.66	1,974.69	0.00	0.00	0.00
11,400.00	90.00	90.03	9,255.00	-67.22	2,074.66	2,074.69	0.00	0.00	0.00
11,500.00	90.00	90.03	9,255.00	-67.26	2,174.66	2,174.69	0.00	0.00	0.00
11,600.00	90.00	90.03	9,255.00	-67.31	2,274.66	2,274.69	0.00	0.00	0.00
11,700.00	90.00	90.03	9,255.00	-67.36	2,374.66	2,374.69	0.00	0.00	0.00
11,800.00	90.00	90.03	9,255.00	-67.41	2,474.66	2,474.69	0.00	0.00	0.00
11,900.00	90.00	90.03	9,255.00	-67.45	2,574.66	2,574.69	0.00	0.00	0.00
12,000.00	90.00	90.03	9,255.00	-67.50	2,674.66	2,674.69	0.00	0.00	0.00
12,100.00	90.00	90.03	9,255.00	-67.55	2,774.66	2,774.69	0.00	0.00	0.00
12,200.00	90.00	90.03	9,255.00	-67.59	2,874.66	2,874.69	0.00	0.00	0.00
12,300.00	90.00	90.03	9,255.00	-67.64	2,974.66	2,974.69	0.00	0.00	0.00
12,400.00	90.00	90.03	9,255.00	-67.69	3,074.66	3,074.69	0.00	0.00	0.00
12,500.00	90.00	90.03	9,255.00	-67.74	3,174.66	3,174.69	0.00	0.00	0.00
12,600.00	90.00	90.03	9,255.00	-67.78	3,274.66	3,274.69	0.00	0.00	0.00
12,700.00	90.00	90.03	9,255.00	-67.83	3,374.66	3,374.69	0.00	0.00	0.00
12,800.00	90.00	90.03	9,255.00	-67.88	3,474.66	3,474.69	0.00	0.00	0.00
12,900.00	90.00	90.03	9,255.00	-67.93	3,574.66	3,574.69	0.00	0.00	0.00
13,000.00	90.00	90.03	9,255.00	-67.97	3,674.66	3,674.69	0.00	0.00	0.00
13,100.00	90.00	90.03	9,255.00	-68.02	3,774.66	3,774.69	0.00	0.00	0.00
13,200.00	90.00	90.03	9,255.00	-68.07	3,874.66	3,874.69	0.00	0.00	0.00
13,300.00	90.00	90.03	9,255.00	-68.11	3,974.66	3,974.69	0.00	0.00	0.00
13,400.00	90.00	90.03	9,255.00	-68.16	4,074.66	4,074.69	0.00	0.00	0.00
13,500.00	90.00	90.03	9,255.00	-68.21	4,174.66	4,174.69	0.00	0.00	0.00
13,600.00	90.00	90.03	9,255.00	-68.26	4,274.66	4,274.69	0.00	0.00	0.00
13,700.00	90.00	90.03	9,255.00	-68.30	4,374.66	4,374.69	0.00	0.00	0.00
13,800.00	90.00	90.03	9,255.00	-68.35	4,474.66	4,474.69	0.00	0.00	0.00
13,900.00	90.00	90.03	9,255.00	-68.40	4,574.66	4,574.69	0.00	0.00	0.00
14,000.00	90.00	90.03	9,255.00	-68.45	4,674.66	4,674.69	0.00	0.00	0.00
14,100.00	90.00	90.03	9,255.00	-68.49	4,774.66	4,774.69	0.00	0.00	0.00
14,200.00	90.00	90.03	9,255.00	-68.54	4,874.66	4,874.69	0.00	0.00	0.00
14,300.00	90.00	90.03	9,255.00	-68.59	4,974.66	4,974.69	0.00	0.00	0.00
14,400.00	90.00	90.03	9,255.00	-68.63	5,074.66	5,074.69	0.00	0.00	0.00
14,500.00	90.00	90.03	9,255.00	-68.68	5,174.66	5,174.69	0.00	0.00	0.00
14,600.00	90.00	90.03	9,255.00	-68.73	5,274.66	5,274.69	0.00	0.00	0.00
14,700.00	90.00	90.03	9,255.00	-68.78	5,374.66	5,374.69	0.00	0.00	0.00
14,800.00	90.00	90.03	9,255.00	-68.82	5,474.66	5,474.69	0.00	0.00	0.00
14,900.00	90.00	90.03	9,255.00	-68.87	5,574.66	5,574.69	0.00	0.00	0.00
15,000.00	90.00	90.03	9,255.00	-68.92	5,674.66	5,674.69	0.00	0.00	0.00
15,100.00	90.00	90.03	9,255.00	-68.96	5,774.66	5,774.69	0.00	0.00	0.00
15,200.00	90.00	90.03	9,255.00	-69.01	5,874.66	5,874.69	0.00	0.00	0.00

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #205H
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:	#205H	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)
15,300.00	90.00	90.03	9,255.00	-69.06	5,974.66	5,974.69	0.00	0.00	0.00
15,400.00	90.00	90.03	9,255.00	-69.11	6,074.66	6,074.69	0.00	0.00	0.00
15,500.00	90.00	90.03	9,255.00	-69.15	6,174.66	6,174.69	0.00	0.00	0.00
15,600.00	90.00	90.03	9,255.00	-69.20	6,274.66	6,274.69	0.00	0.00	0.00
15,700.00	90.00	90.03	9,255.00	-69.25	6,374.66	6,374.69	0.00	0.00	0.00
15,800.00	90.00	90.03	9,255.00	-69.30	6,474.66	6,474.69	0.00	0.00	0.00
15,900.00	90.00	90.03	9,255.00	-69.34	6,574.66	6,574.69	0.00	0.00	0.00
16,000.00	90.00	90.03	9,255.00	-69.39	6,674.66	6,674.69	0.00	0.00	0.00
16,100.00	90.00	90.03	9,255.00	-69.44	6,774.66	6,774.69	0.00	0.00	0.00
16,200.00	90.00	90.03	9,255.00	-69.48	6,874.66	6,874.69	0.00	0.00	0.00
16,300.00	90.00	90.03	9,255.00	-69.53	6,974.66	6,974.69	0.00	0.00	0.00
16,400.00	90.00	90.03	9,255.00	-69.58	7,074.66	7,074.69	0.00	0.00	0.00
16,500.00	90.00	90.03	9,255.00	-69.63	7,174.66	7,174.69	0.00	0.00	0.00
16,600.00	90.00	90.03	9,255.00	-69.67	7,274.66	7,274.69	0.00	0.00	0.00
16,700.00	90.00	90.03	9,255.00	-69.72	7,374.66	7,374.69	0.00	0.00	0.00
16,800.00	90.00	90.03	9,255.00	-69.77	7,474.66	7,474.69	0.00	0.00	0.00
16,900.00	90.00	90.03	9,255.00	-69.82	7,574.66	7,574.69	0.00	0.00	0.00
17,000.00	90.00	90.03	9,255.00	-69.86	7,674.66	7,674.69	0.00	0.00	0.00
17,100.00	90.00	90.03	9,255.00	-69.91	7,774.66	7,774.69	0.00	0.00	0.00
17,200.00	90.00	90.03	9,255.00	-69.96	7,874.66	7,874.69	0.00	0.00	0.00
17,300.00	90.00	90.03	9,255.00	-70.00	7,974.66	7,974.69	0.00	0.00	0.00
17,400.00	90.00	90.03	9,255.00	-70.05	8,074.66	8,074.69	0.00	0.00	0.00
17,500.00	90.00	90.03	9,255.00	-70.10	8,174.66	8,174.69	0.00	0.00	0.00
17,600.00	90.00	90.03	9,255.00	-70.15	8,274.66	8,274.69	0.00	0.00	0.00
17,700.00	90.00	90.03	9,255.00	-70.19	8,374.66	8,374.69	0.00	0.00	0.00
17,800.00	90.00	90.03	9,255.00	-70.24	8,474.66	8,474.69	0.00	0.00	0.00
17,900.00	90.00	90.03	9,255.00	-70.29	8,574.66	8,574.69	0.00	0.00	0.00
18,000.00	90.00	90.03	9,255.00	-70.34	8,674.66	8,674.69	0.00	0.00	0.00
18,100.00	90.00	90.03	9,255.00	-70.38	8,774.66	8,774.69	0.00	0.00	0.00
18,200.00	90.00	90.03	9,255.00	-70.43	8,874.66	8,874.69	0.00	0.00	0.00
18,300.00	90.00	90.03	9,255.00	-70.48	8,974.66	8,974.69	0.00	0.00	0.00
18,400.00	90.00	90.03	9,255.00	-70.52	9,074.66	9,074.69	0.00	0.00	0.00
18,500.00	90.00	90.03	9,255.00	-70.57	9,174.66	9,174.69	0.00	0.00	0.00
18,600.00	90.00	90.03	9,255.00	-70.62	9,274.66	9,274.69	0.00	0.00	0.00
18,700.00	90.00	90.03	9,255.00	-70.67	9,374.66	9,374.69	0.00	0.00	0.00
18,800.00	90.00	90.03	9,255.00	-70.71	9,474.66	9,474.69	0.00	0.00	0.00
18,900.00	90.00	90.03	9,255.00	-70.76	9,574.66	9,574.69	0.00	0.00	0.00
19,000.00	90.00	90.03	9,255.00	-70.81	9,674.66	9,674.69	0.00	0.00	0.00
19,100.00	90.00	90.03	9,255.00	-70.85	9,774.66	9,774.69	0.00	0.00	0.00
19,200.00	90.00	90.03	9,255.00	-70.90	9,874.66	9,874.69	0.00	0.00	0.00
19,300.00	90.00	90.03	9,255.00	-70.95	9,974.66	9,974.69	0.00	0.00	0.00
19,407.34	90.00	90.03	9,255.00	-71.00	10,082.00	10,082.04	0.00	0.00	0.00

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #205H
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:	#205H	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	
- Shape		(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
									Latitude Longitude
FPP (Leatherneck 30:		0.00	0.00	0.00	-116.00	-210.00	563,471.00	565,211.00	32.548912 -104.121702
- plan misses target center by 239.91usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
BHL (Leatherneck 30:		0.00	0.00	9,255.00	-71.00	10,082.00	563,516.00	575,503.00	32.548975 -104.088301
- plan hits target center									
- Point									
LPP (Leatherneck 30:		0.00	0.00	9,255.00	-121.00	10,042.00	563,466.00	575,463.00	32.548838 -104.088431
- plan misses target center by 50.02usft at 19367.37usft MD (9255.00 TVD, -70.98 N, 10042.02 E)									
- Point									

Casing Points					
Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter	
(usft)	(usft)	Name	(")	(")	
400.00	400.00	20"	20	26	
1,201.29	1,200.00	13 3/8"	13-3/8	17-1/2	
3,117.67	3,100.00	9 5/8"	9-5/8	12-1/4	

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
21.50	21.50	Z (Rustler/Karst/Salt)				
815.50	815.50	Z (Tansill/Base Salt)				
916.53	916.50	Z (Yates)				
1,308.71	1,306.50	Z (Seven Rivers)				
1,354.10	1,351.50	Z (Capitan)				
2,939.65	2,923.50	Z (Cherry Canyon)				
4,169.76	4,149.50	Z (Brushy Canyon)				
5,613.76	5,593.50	Z (Bone Spring Lime)				
5,858.76	5,838.50	Z (U. Avalon Shale				
6,052.76	6,032.50	Z (Avalon Carb)				
6,268.76	6,248.50	Z (L. Avalon Shale)				
6,325.76	6,305.50	Z (FSBC)				
6,780.76	6,760.50	Z (FBSG)				
7,042.76	7,022.50	Z (SBSC)				
7,466.76	7,446.50	Z (SBSG)				
7,833.76	7,813.50	Z (SBSG C)				
7,849.76	7,829.50	Z (TBSC)				
8,695.76	8,675.50	Z (TBSC)				
9,201.60	9,120.50	Z (WFMP A)				
9,228.78	9,137.50	Z (WFMP A X Sand)				
9,391.07	9,216.50	Z (WFMP A Y Sand)				

Matador Resources

Eddy County, NM (NAD27)

Leatherneck 3029 Fed Com (Slot 1)

#205H

OH

Prelim A

Anticollision Report

13 June, 2019

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #205H
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:	#205H	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	19,406.89	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	4,916.07	4,945.30	182.00	146.51	5.128 CC	
#105H - OH - Prelim B	5,000.00	5,023.78	182.09	146.06	5.054 ES	
#105H - OH - Prelim B	5,100.00	5,118.30	184.16	147.66	5.046 SF	
#106H - OH - Prelim B	800.00	801.00	486.46	481.18	92.158 CC, ES	
#106H - OH - Prelim B	19,407.34	15,624.51	3,958.29	3,737.31	17.913 SF	
#112H - OH - Prelim B	800.00	801.00	570.51	565.23	108.082 CC, ES	
#112H - OH - Prelim B	19,407.34	17,009.80	2,486.32	2,274.24	11.723 SF	
#115H - OH - Prelim B	6,561.14	6,575.72	358.90	312.08	7.665 CC, ES	
#115H - OH - Prelim B	6,600.00	6,610.39	359.28	312.29	7.645 SF	
#116H - OH - Prelim B	800.00	802.00	595.27	589.98	112.695 CC, ES	
#116H - OH - Prelim B	19,407.34	16,955.24	2,712.03	2,440.71	9.996 SF	
#125H - OH - Plan 1	7,202.67	7,230.13	262.00	210.26	5.063 CC	
#125H - OH - Plan 1	7,300.00	7,327.27	262.02	209.61	5.000 ES	
#125H - OH - Plan 1	7,400.00	7,423.70	262.85	209.91	4.965 SF	
#126H - OH - Plan 1	800.00	802.00	708.44	703.15	134.121 CC, ES	
#126H - OH - Plan 1	19,407.34	17,980.18	1,787.13	1,418.50	4.848 SF	
#136H - OH - Prelim B	800.00	802.00	674.64	669.36	127.723 CC, ES	
#136H - OH - Prelim B	19,407.34	19,265.44	1,330.14	857.52	2.814 SF	
#206H - OH - Prelim B	800.00	803.00	678.81	673.52	128.424 CC, ES	
#206H - OH - Prelim B	19,407.34	19,410.33	1,322.00	846.69	2.781 SF	
#242H - OH - Prelim B	800.00	801.00	565.54	560.27	107.141 CC, ES	
#242H - OH - Prelim B	19,407.34	20,080.80	1,036.69	669.77	2.825 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 #205H
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:	#205H	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
Offset Well - Wellbore - Design						
Leatherneck 3029 Fed Com (Slot 1)						
#111H - OH - Prelim A	2,002.33	1,994.19	175.68	161.62	12.502	CC, ES
#111H - OH - Prelim A	6,400.00	6,364.33	323.28	277.80	7.107	SF
#121H - OH - Prelim A	1,633.16	1,628.18	111.79	100.48	9.883	CC
#121H - OH - Prelim A	1,700.00	1,705.56	112.13	100.29	9.468	ES
#121H - OH - Prelim A	7,300.00	7,281.22	237.58	185.41	4.554	SF
#122H - OH - Prelim A	1,449.52	1,447.10	129.85	119.89	13.035	CC
#122H - OH - Prelim A	1,500.00	1,502.85	130.02	119.67	12.560	ES
#122H - OH - Prelim A	19,407.34	17,728.36	1,629.60	1,366.90	6.203	SF
#131H - OH - Prelim A	1,494.72	1,509.08	87.84	77.48	8.482	CC, ES
#131H - OH - Prelim A	19,407.34	19,219.41	577.50	116.09	1.252	Level 3, SF
#132H - OH - Prelim A	1,311.08	1,309.85	105.90	96.95	11.835	CC
#132H - OH - Prelim A	1,400.00	1,401.99	106.53	96.92	11.085	ES
#132H - OH - Prelim A	19,407.34	19,139.20	774.88	310.35	1.668	SF
#135H - OH - Prelim A	800.00	800.00	30.00	24.73	5.687	CC
#135H - OH - Prelim A	19,407.34	19,237.58	145.00	-19.09	0.884	Level 1, ES, SF
#221H - OH - Prelim A	800.00	800.00	42.43	37.15	8.043	CC
#221H - OH - Prelim A	8,700.00	8,704.99	94.19	31.98	1.514	ES
#221H - OH - Prelim A	19,407.34	19,631.09	612.77	176.17	1.404	Level 3, SF
#222H - OH - Prelim A	1,122.03	1,121.35	23.96	16.38	3.163	CC, ES
#222H - OH - Prelim A	19,407.34	19,675.30	801.32	347.97	1.768	SF
#241H - OH - Prelim A	1,305.62	1,312.04	212.14	203.22	23.779	CC
#241H - OH - Prelim A	3,200.00	3,186.58	220.73	197.39	9.457	ES
#241H - OH - Prelim A	19,407.34	20,070.34	899.73	579.36	2.808	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		Distance						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)				
0.00	0.00	2.00	2.00	0.00	0.00	-167.21	-480.00	-109.00	492.22						
100.00	100.00	102.00	102.00	0.13	0.14	-167.21	-480.00	-109.00	492.22	491.96	0.26	1,868.173			
200.00	200.00	202.00	202.00	0.49	0.49	-167.21	-480.00	-109.00	492.22	491.24	0.98	502.051			
300.00	300.00	302.00	302.00	0.85	0.85	-167.21	-480.00	-109.00	492.22	490.52	1.70	289.991			
400.00	400.00	402.00	402.00	1.20	1.21	-167.21	-480.00	-109.00	492.22	489.81	2.41	203.877			
500.00	500.00	502.00	502.00	1.56	1.57	-167.21	-480.00	-109.00	492.22	489.09	3.13	157.196			
600.00	600.00	602.00	602.00	1.92	1.93	-167.21	-480.00	-109.00	492.22	488.37	3.85	127.910			
700.00	700.00	702.00	702.00	2.28	2.29	-167.21	-480.00	-109.00	492.22	487.66	4.57	107.822			
800.00	800.00	802.00	802.00	2.64	2.64	-167.21	-480.00	-109.00	492.22	486.94	5.28	93.187			
900.00	899.98	901.98	901.98	2.99	3.00	-114.39	-480.00	-109.00	492.94	486.94	6.00	82.213			
1,000.00	999.84	1,001.84	1,001.84	3.35	3.36	-114.90	-480.00	-109.00	495.12	488.42	6.71	73.805			
1,100.00	1,099.45	1,101.45	1,101.45	3.71	3.72	-115.74	-480.00	-109.00	498.86	491.44	7.42	67.191			
1,200.00	1,198.72	1,200.72	1,200.72	4.07	4.07	-116.90	-480.00	-109.00	504.25	496.10	8.15	61.905			
1,300.00	1,297.86	1,300.14	1,299.86	4.44	4.43	-118.19	-480.00	-109.00	510.32	501.45	8.87	57.527			
1,400.00	1,397.01	1,400.99	1,399.01	4.82	4.79	-119.46	-480.00	-109.00	516.65	507.05	9.60	53.791			
1,500.00	1,496.15	1,498.15	1,498.15	5.20	5.14	-120.70	-480.00	-109.00	523.23	512.91	10.33	50.663			
1,600.00	1,595.30	1,617.40	1,617.37	5.58	5.57	-122.05	-477.70	-109.70	528.20	517.08	11.13	47.467			
1,700.00	1,694.44	1,737.68	1,737.40	5.96	6.00	-123.19	-470.58	-111.88	529.48	517.56	11.92	44.419			
1,800.00	1,793.59	1,858.18	1,857.25	6.35	6.43	-124.13	-458.61	-115.54	526.98	514.28	12.70	41.495			
1,900.00	1,892.74	1,978.50	1,976.28	6.74	6.87	-124.91	-441.87	-120.65	520.62	507.16	13.46	38.674			
2,000.00	1,991.88	2,082.72	2,078.89	7.13	7.25	-125.48	-424.48	-125.97	511.54	497.34	14.20	36.012			

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 #205H
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:	#205H	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													0.00 usft
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	
2,100.00	2,091.03	2,182.17	2,176.80	7.52	7.63	-126.05	-407.76	-131.08	502.41	487.46	14.95	33.615	
2,200.00	2,190.17	2,281.63	2,274.71	7.91	8.01	-126.64	-391.03	-136.19	493.33	477.64	15.69	31.443	
2,300.00	2,289.32	2,381.09	2,372.62	8.30	8.39	-127.25	-374.31	-141.31	484.30	467.87	16.43	29.468	
2,400.00	2,388.46	2,480.54	2,470.53	8.69	8.78	-127.88	-357.59	-146.42	475.33	458.15	17.18	27.666	
2,500.00	2,487.61	2,580.00	2,568.43	9.08	9.17	-128.53	-340.87	-151.53	466.42	448.49	17.93	26.016	
2,600.00	2,586.75	2,679.46	2,666.34	9.48	9.56	-129.22	-324.15	-156.64	457.57	438.89	18.68	24.501	
2,700.00	2,685.90	2,778.91	2,764.25	9.87	9.96	-129.92	-307.42	-161.75	448.78	429.36	19.42	23.106	
2,800.00	2,785.04	2,878.37	2,862.16	10.27	10.36	-130.66	-290.70	-166.86	440.07	419.90	20.17	21.817	
2,900.00	2,884.19	2,977.83	2,960.06	10.66	10.76	-131.43	-273.98	-171.97	431.44	410.52	20.92	20.625	
3,000.00	2,983.34	3,077.28	3,057.97	11.06	11.16	-132.22	-257.26	-177.09	422.88	401.22	21.67	19.519	
3,100.00	3,082.48	3,176.74	3,155.88	11.45	11.57	-133.05	-240.54	-182.20	414.41	392.00	22.41	18.491	
3,200.00	3,181.63	3,276.20	3,253.79	11.85	11.97	-133.91	-223.81	-187.31	406.03	382.87	23.16	17.533	
3,300.00	3,280.77	3,375.65	3,351.69	12.24	12.38	-134.81	-207.09	-192.42	397.74	373.84	23.90	16.640	
3,400.00	3,380.14	3,475.06	3,449.55	12.63	12.79	-135.42	-190.38	-197.53	388.20	363.56	24.64	15.753	
3,500.00	3,479.84	3,574.30	3,547.25	13.00	13.19	-135.66	-173.69	-202.63	376.23	350.86	25.38	14.826	
3,600.00	3,579.75	3,673.25	3,644.65	13.36	13.60	-135.50	-157.06	-207.71	361.80	335.70	26.10	13.862	
3,700.00	3,679.74	3,771.81	3,741.68	13.70	14.01	172.01	-140.49	-212.78	345.03	318.21	26.82	12.866	
3,800.00	3,779.74	3,870.25	3,838.59	14.03	14.42	172.49	-123.93	-217.84	327.67	300.14	27.53	11.902	
3,900.00	3,879.74	3,968.69	3,935.50	14.37	14.82	173.03	-107.38	-222.90	310.33	282.09	28.25	10.987	
4,000.00	3,979.74	4,067.14	4,032.40	14.71	15.23	173.63	-90.83	-227.96	293.03	264.07	28.96	10.117	
4,100.00	4,079.74	4,165.58	4,129.31	15.04	15.64	174.30	-74.28	-233.02	275.76	246.07	29.68	9.290	
4,200.00	4,179.74	4,264.02	4,226.22	15.38	16.05	175.06	-57.73	-238.08	258.53	228.12	30.40	8.503	
4,300.00	4,279.74	4,362.46	4,323.13	15.72	16.46	175.93	-41.18	-243.13	241.35	210.22	31.13	7.753	
4,400.00	4,379.74	4,459.20	4,418.38	16.07	16.87	176.91	-24.99	-248.08	224.33	192.46	31.87	7.039	
4,500.00	4,479.74	4,551.28	4,509.38	16.41	17.24	177.84	-11.59	-252.18	209.56	176.93	32.63	6.422	
4,600.00	4,579.74	4,644.18	4,601.60	16.75	17.60	178.67	-0.90	-255.44	197.95	164.59	33.37	5.932	
4,700.00	4,679.74	4,737.72	4,694.77	17.09	17.95	179.35	6.96	-257.85	189.50	155.43	34.07	5.561	
4,800.00	4,779.74	4,831.69	4,788.60	17.44	18.29	179.80	11.93	-259.37	184.20	149.46	34.74	5.302	
4,900.00	4,879.74	4,925.91	4,882.79	17.78	18.61	180.00	13.95	-259.98	182.05	146.68	35.38	5.146	
4,916.07	4,895.82	4,945.30	4,897.82	17.84	18.67	-180.00	14.00	-260.00	182.00	146.51	35.49	5.128 CC	
5,000.00	4,979.74	5,023.78	4,980.65	18.13	18.93	179.78	13.92	-259.29	182.09	146.06	36.03	5.054 ES	
5,100.00	5,079.74	5,118.30	5,074.23	18.47	19.20	175.92	12.46	-246.91	184.16	147.66	36.50	5.046 SF	
5,200.00	5,179.74	5,206.52	5,158.63	18.82	19.44	168.40	9.50	-221.72	191.78	155.17	36.61	5.239	
5,300.00	5,279.74	5,285.41	5,230.03	19.17	19.62	159.43	5.60	-188.53	209.84	173.78	36.06	5.819	
5,400.00	5,379.74	5,353.90	5,287.79	19.51	19.76	150.99	1.32	-152.06	241.62	206.88	34.73	6.957	
5,500.00	5,479.74	5,412.32	5,333.31	19.86	19.86	144.05	-2.95	-115.72	287.11	254.19	32.92	8.722	
5,600.00	5,579.74	5,461.78	5,368.76	20.21	19.93	138.67	-6.97	-81.49	344.13	313.11	31.01	11.096	
5,700.00	5,679.74	5,500.00	5,394.05	20.56	19.99	134.91	-10.31	-53.04	410.08	381.01	29.07	14.106	
5,800.00	5,779.74	5,539.08	5,417.86	20.91	20.03	131.45	-13.93	-22.28	482.69	454.93	27.76	17.389	
5,900.00	5,879.74	5,569.33	5,434.82	21.25	20.07	129.03	-16.85	2.60	560.36	533.86	26.50	21.147	
6,000.00	5,979.74	5,600.00	5,450.64	21.60	20.13	126.79	-19.91	28.69	641.90	616.24	25.66	25.019	
6,100.00	6,079.74	5,617.73	5,459.13	21.95	20.19	125.60	-21.73	44.15	726.33	701.68	24.65	29.470	
6,200.00	6,179.74	5,637.26	5,467.93	22.30	20.29	124.36	-23.76	61.47	813.12	789.14	23.98	33.905	
6,300.00	6,279.74	5,650.00	5,473.34	22.65	20.36	123.59	-25.11	72.92	901.80	878.46	23.34	38.644	
6,400.00	6,379.74	5,669.48	5,481.12	23.00	20.49	122.48	-27.19	90.66	991.91	968.87	23.04	43.049	
6,500.00	6,479.74	5,682.88	5,486.12	23.35	20.59	121.75	-28.64	103.01	1,083.28	1,060.56	22.72	47.675	
6,600.00	6,579.74	5,700.00	5,492.08	23.70	20.70	120.87	-30.52	118.94	1,175.70	1,153.11	22.59	52.050	
6,700.00	6,679.74	5,700.00	5,492.08	24.05	20.70	120.87	-30.52	118.94	1,268.94	1,246.73	22.20	57.151	
6,800.00	6,779.74	5,700.00	5,492.08	24.41	20.70	120.87	-30.52	118.94	1,363.13	1,341.21	21.93	62.164	
6,900.00	6,879.74	5,724.02	5,499.63	24.76	20.89	119.71	-33.18	141.58	1,457.41	1,435.29	22.12	65.890	
7,000.00	6,979.74	5,731.99	5,501.92	25.11	20.96	119.35	-34.07	149.17	1,552.49	1,530.40	22.09	70.286	
7,100.00	7,079.74	5,750.00	5,506.71	25.46	21.10	118.56	-36.09	166.41	1,648.16	1,625.92	22.24	74.102	

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 #205H
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:	#205H	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		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)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
7,200.00	7,179.74	5,750.00	5,506.71	25.81	21.10	118.56	-36.09	166.41	1,743.97	1,721.79	22.18	78.634
7,300.00	7,279.74	5,750.00	5,506.71	26.17	21.10	118.56	-36.09	166.41	1,840.23	1,818.07	22.16	83.044
7,400.00	7,379.74	5,750.00	5,506.71	26.52	21.10	118.56	-36.09	166.41	1,936.87	1,914.69	22.18	87.331
7,500.00	7,479.74	5,750.00	5,506.71	26.87	21.10	118.56	-36.09	166.41	2,033.83	2,011.60	22.23	91.494
7,600.00	7,579.74	5,750.00	5,506.71	27.22	21.10	118.56	-36.09	166.41	2,131.07	2,108.76	22.31	95.534
7,700.00	7,679.74	5,772.36	5,511.89	27.58	21.30	117.64	-38.63	188.01	2,228.01	2,205.39	22.63	98.475
7,800.00	7,779.74	5,776.57	5,512.77	27.93	21.33	117.48	-39.11	192.10	2,325.49	2,302.72	22.77	102.109
7,900.00	7,879.74	5,780.51	5,513.57	28.28	21.37	117.32	-39.56	195.94	2,423.14	2,400.21	22.94	105.647
8,000.00	7,979.74	5,800.00	5,517.11	28.63	21.54	116.60	-41.80	214.97	2,521.22	2,497.97	23.25	108.455
8,100.00	8,079.74	5,800.00	5,517.11	28.99	21.54	116.60	-41.80	214.97	2,619.06	2,595.66	23.40	111.947
8,200.00	8,179.74	5,800.00	5,517.11	29.34	21.54	116.60	-41.80	214.97	2,717.06	2,693.50	23.56	115.333
8,300.00	8,279.74	5,800.00	5,517.11	29.70	21.54	116.60	-41.80	214.97	2,815.19	2,791.46	23.73	118.616
8,400.00	8,379.74	5,800.00	5,517.11	30.05	21.54	116.60	-41.80	214.97	2,913.46	2,889.54	23.92	121.798
8,500.00	8,479.74	5,800.00	5,517.11	30.40	21.54	116.60	-41.80	214.97	3,011.84	2,987.72	24.12	124.883
8,600.00	8,579.74	5,800.00	5,517.11	30.76	21.54	116.60	-41.80	214.97	3,110.32	3,086.00	24.32	127.873
8,700.00	8,679.74	5,800.00	5,517.11	31.11	21.54	116.60	-41.80	214.97	3,208.90	3,184.36	24.54	130.771
8,800.00	8,779.27	5,800.00	5,517.11	31.44	21.54	4.47	-41.80	214.97	3,305.78	3,281.06	24.73	133.699
8,900.00	8,875.84	5,800.00	5,517.11	31.73	21.54	2.97	-41.80	214.97	3,397.40	3,372.54	24.86	136.660
9,000.00	8,966.53	5,821.40	5,520.26	32.01	21.75	2.14	-44.27	235.99	3,481.03	3,455.95	25.08	138.801
9,100.00	9,048.57	5,850.00	5,523.22	32.28	22.02	1.63	-47.58	264.24	3,555.54	3,530.25	25.29	140.571
9,200.00	9,119.47	5,850.00	5,523.22	32.57	22.02	1.41	-47.58	264.24	3,618.02	3,592.70	25.32	142.904
9,300.00	9,177.08	5,850.00	5,523.22	32.91	22.02	1.28	-47.58	264.24	3,668.00	3,642.65	25.35	144.701
9,400.00	9,219.65	5,850.00	5,523.22	33.33	22.02	1.19	-47.58	264.24	3,704.49	3,679.08	25.41	145.785
9,500.00	9,245.89	5,895.16	5,525.00	33.84	22.49	1.01	-52.85	309.04	3,726.34	3,700.63	25.71	144.951
9,600.00	9,254.99	5,895.16	5,525.00	34.44	22.49	1.00	-52.85	309.04	3,732.86	3,707.00	25.86	144.325
9,700.00	9,255.00	5,961.91	5,525.00	35.15	23.26	0.84	-59.47	375.46	3,732.41	3,706.07	26.34	141.686
9,800.00	9,255.00	6,062.85	5,525.00	36.00	24.54	0.57	-65.08	476.24	3,732.19	3,705.17	27.02	138.121
9,900.00	9,255.00	6,162.37	5,525.00	36.97	25.94	0.32	-65.91	575.75	3,732.06	3,704.29	27.77	134.391
10,000.00	9,255.00	6,261.59	5,525.00	38.06	27.47	0.13	-65.97	674.96	3,732.01	3,703.43	28.58	130.566
10,100.00	9,255.00	6,361.32	5,525.00	39.24	29.10	0.02	-66.02	774.69	3,732.00	3,702.55	29.45	126.719
10,139.33	9,255.00	6,400.62	5,525.00	39.74	29.76	0.00	-66.04	813.99	3,732.00	3,702.19	29.81	125.209
10,200.00	9,255.00	6,461.28	5,525.00	40.50	30.82	-0.01	-66.07	874.66	3,732.00	3,701.63	30.37	122.898
10,300.00	9,255.00	6,561.28	5,525.00	41.85	32.61	-0.01	-66.13	974.66	3,732.00	3,700.67	31.33	119.123
10,400.00	9,255.00	6,661.28	5,525.00	43.28	34.47	-0.01	-66.18	1,074.66	3,732.00	3,699.66	32.34	115.410
10,500.00	9,255.00	6,761.28	5,525.00	44.78	36.38	-0.01	-66.23	1,174.66	3,732.00	3,698.61	33.39	111.785
10,600.00	9,255.00	6,861.28	5,525.00	46.35	38.33	-0.01	-66.29	1,274.66	3,732.00	3,697.53	34.47	108.263
10,700.00	9,255.00	6,961.28	5,525.00	47.98	40.32	-0.01	-66.34	1,374.66	3,732.00	3,696.41	35.59	104.857
10,800.00	9,255.00	7,061.28	5,525.00	49.66	42.34	-0.01	-66.40	1,474.66	3,732.00	3,695.26	36.74	101.573
10,900.00	9,255.00	7,161.28	5,525.00	51.40	44.39	-0.01	-66.45	1,574.66	3,732.00	3,694.08	37.92	98.415
11,000.00	9,255.00	7,261.28	5,525.00	53.17	46.46	-0.01	-66.50	1,674.66	3,732.00	3,692.87	39.13	95.386
11,100.00	9,255.00	7,361.28	5,525.00	54.99	48.56	-0.01	-66.56	1,774.66	3,732.00	3,691.65	40.35	92.484
11,200.00	9,255.00	7,461.28	5,525.00	56.84	50.67	-0.01	-66.61	1,874.66	3,732.00	3,690.40	41.60	89.707
11,300.00	9,255.00	7,561.28	5,525.00	58.72	52.80	-0.01	-66.66	1,974.66	3,732.00	3,689.13	42.87	87.052
11,400.00	9,255.00	7,661.28	5,525.00	60.64	54.95	-0.01	-66.72	2,074.66	3,732.00	3,687.84	44.16	84.514
11,500.00	9,255.00	7,761.28	5,525.00	62.58	57.10	-0.01	-66.77	2,174.66	3,732.00	3,686.54	45.46	82.091
11,600.00	9,255.00	7,861.28	5,525.00	64.54	59.27	-0.01	-66.82	2,274.66	3,732.00	3,685.22	46.78	79.777
11,700.00	9,255.00	7,961.28	5,525.00	66.53	61.45	-0.01	-66.88	2,374.66	3,732.00	3,683.89	48.11	77.566
11,800.00	9,255.00	8,061.28	5,525.00	68.54	63.64	-0.01	-66.93	2,474.66	3,732.00	3,682.54	49.46	75.455
11,900.00	9,255.00	8,161.28	5,525.00	70.56	65.84	-0.01	-66.98	2,574.66	3,732.00	3,681.18	50.82	73.438
12,000.00	9,255.00	8,261.28	5,525.00	72.60	68.04	-0.01	-67.04	2,674.66	3,732.00	3,679.81	52.19	71.511
12,100.00	9,255.00	8,361.28	5,525.00	74.66	70.25	-0.01	-67.09	2,774.66	3,732.00	3,678.43	53.57	69.669
12,200.00	9,255.00	8,461.28	5,525.00	76.74	72.47	-0.01	-67.14	2,874.66	3,732.00	3,677.04	54.96	67.907

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 #205H
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:	#205H	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 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			
12,300.00	9,255.00	8,561.28	5,525.00	78.82	74.69	-0.01	-67.20	2,974.66	3,732.00	3,675.64	56.36	66.222			
12,400.00	9,255.00	8,661.28	5,525.00	80.92	76.92	-0.01	-67.25	3,074.66	3,732.00	3,674.24	57.76	64.609			
12,500.00	9,255.00	8,761.28	5,525.00	83.03	79.15	-0.01	-67.30	3,174.66	3,732.00	3,672.82	59.18	63.065			
12,600.00	9,255.00	8,861.28	5,525.00	85.15	81.38	-0.01	-67.36	3,274.66	3,732.00	3,671.40	60.60	61.585			
12,700.00	9,255.00	8,961.28	5,525.00	87.28	83.62	-0.01	-67.41	3,374.66	3,732.00	3,669.97	62.03	60.166			
12,800.00	9,255.00	9,061.28	5,525.00	89.41	85.87	-0.01	-67.47	3,474.66	3,732.00	3,668.54	63.46	58.806			
12,900.00	9,255.00	9,161.28	5,525.00	91.56	88.12	-0.01	-67.52	3,574.66	3,732.00	3,667.10	64.90	57.500			
13,000.00	9,255.00	9,261.28	5,525.00	93.71	90.37	-0.01	-67.57	3,674.66	3,732.00	3,665.65	66.35	56.246			
13,100.00	9,255.00	9,361.28	5,525.00	95.88	92.62	-0.01	-67.63	3,774.66	3,732.00	3,664.20	67.80	55.041			
13,200.00	9,255.00	9,461.28	5,525.00	98.04	94.87	-0.01	-67.68	3,874.66	3,732.00	3,662.74	69.26	53.884			
13,300.00	9,255.00	9,561.28	5,525.00	100.22	97.13	-0.01	-67.73	3,974.66	3,732.00	3,661.28	70.72	52.770			
13,400.00	9,255.00	9,661.28	5,525.00	102.40	99.39	-0.01	-67.79	4,074.66	3,732.00	3,659.81	72.19	51.698			
13,500.00	9,255.00	9,761.28	5,525.00	104.58	101.66	-0.01	-67.84	4,174.66	3,732.00	3,658.34	73.66	50.666			
13,600.00	9,255.00	9,861.28	5,525.00	106.77	103.92	-0.01	-67.89	4,274.66	3,732.00	3,656.87	75.13	49.672			
13,700.00	9,255.00	9,961.28	5,525.00	108.97	106.19	-0.01	-67.95	4,374.66	3,732.00	3,655.39	76.61	48.714			
13,800.00	9,255.00	10,061.28	5,525.00	111.17	108.46	-0.01	-68.00	4,474.66	3,732.00	3,653.91	78.09	47.790			
13,900.00	9,255.00	10,161.28	5,525.00	113.38	110.73	-0.01	-68.05	4,574.66	3,732.00	3,652.42	79.58	46.899			
14,000.00	9,255.00	10,261.28	5,525.00	115.58	113.00	-0.01	-68.11	4,674.66	3,732.00	3,650.94	81.06	46.038			
14,100.00	9,255.00	10,361.28	5,525.00	117.80	115.27	-0.01	-68.16	4,774.66	3,732.00	3,649.45	82.55	45.207			
14,200.00	9,255.00	10,461.28	5,525.00	120.01	117.55	0.00	-68.21	4,874.66	3,732.00	3,647.95	84.05	44.404			
14,300.00	9,255.00	10,561.28	5,525.00	122.23	119.82	0.00	-68.27	4,974.66	3,732.00	3,646.46	85.54	43.627			
14,400.00	9,255.00	10,661.28	5,525.00	124.46	122.10	0.00	-68.32	5,074.66	3,732.00	3,644.96	87.04	42.876			
14,500.00	9,255.00	10,761.28	5,525.00	126.68	124.38	0.00	-68.37	5,174.66	3,732.00	3,643.46	88.54	42.149			
14,600.00	9,255.00	10,861.28	5,525.00	128.91	126.66	0.00	-68.43	5,274.66	3,732.00	3,641.95	90.05	41.445			
14,700.00	9,255.00	10,961.28	5,525.00	131.14	128.94	0.00	-68.48	5,374.66	3,732.00	3,640.45	91.55	40.764			
14,800.00	9,255.00	11,061.28	5,525.00	133.38	131.22	0.00	-68.54	5,474.66	3,732.00	3,638.94	93.06	40.104			
14,900.00	9,255.00	11,161.28	5,525.00	135.61	133.50	0.00	-68.59	5,574.66	3,732.00	3,637.43	94.57	39.463			
15,000.00	9,255.00	11,261.28	5,525.00	137.85	135.78	0.00	-68.64	5,674.66	3,732.00	3,635.92	96.08	38.843			
15,100.00	9,255.00	11,361.28	5,525.00	140.09	138.07	0.00	-68.70	5,774.66	3,732.00	3,634.41	97.59	38.240			
15,200.00	9,255.00	11,461.28	5,525.00	142.34	140.35	0.00	-68.75	5,874.66	3,732.00	3,632.89	99.11	37.656			
15,300.00	9,255.00	11,561.28	5,525.00	144.58	142.64	0.00	-68.80	5,974.66	3,732.00	3,631.38	100.62	37.088			
15,400.00	9,255.00	11,661.28	5,525.00	146.83	144.92	0.00	-68.86	6,074.66	3,732.00	3,629.86	102.14	36.537			
15,500.00	9,255.00	11,761.28	5,525.00	149.08	147.21	0.00	-68.91	6,174.66	3,732.00	3,628.34	103.66	36.002			
15,600.00	9,255.00	11,861.28	5,525.00	151.33	149.50	0.00	-68.96	6,274.66	3,732.00	3,626.82	105.18	35.481			
15,700.00	9,255.00	11,961.28	5,525.00	153.58	151.79	0.00	-69.02	6,374.66	3,732.00	3,625.29	106.71	34.975			
15,800.00	9,255.00	12,061.28	5,525.00	155.84	154.08	0.00	-69.07	6,474.66	3,732.00	3,623.77	108.23	34.482			
15,900.00	9,255.00	12,161.28	5,525.00	158.09	156.37	0.00	-69.12	6,574.66	3,732.00	3,622.25	109.75	34.003			
16,000.00	9,255.00	12,261.28	5,525.00	160.35	158.66	0.00	-69.18	6,674.66	3,732.00	3,620.72	111.28	33.537			
16,100.00	9,255.00	12,361.28	5,525.00	162.61	160.95	0.00	-69.23	6,774.66	3,732.00	3,619.19	112.81	33.083			
16,175.95	9,255.00	12,437.23	5,525.00	164.33	162.69	0.00	-69.27	6,850.61	3,732.00	3,618.03	113.97	32.746			
16,200.00	9,255.00	12,461.28	5,525.00	164.87	163.24	0.00	-69.28	6,874.66	3,732.00	3,617.66	114.34	32.640			
16,300.00	9,255.00	12,561.28	5,525.00	167.13	165.53	0.00	-69.34	6,974.66	3,732.00	3,616.13	115.87	32.209			
16,400.00	9,255.00	12,661.28	5,525.00	169.40	167.82	0.00	-69.39	7,074.66	3,732.00	3,614.60	117.40	31.790			
16,500.00	9,255.00	12,761.28	5,525.00	171.66	170.11	0.00	-69.44	7,174.66	3,732.00	3,613.07	118.93	31.380			
16,600.00	9,255.00	12,861.28	5,525.00	173.93	172.41	0.00	-69.50	7,274.66	3,732.00	3,611.54	120.46	30.981			
16,700.00	9,255.00	12,961.28	5,525.00	176.19	174.70	0.00	-69.55	7,374.66	3,732.00	3,610.00	122.00	30.591			
16,800.00	9,255.00	13,061.28	5,525.00	178.46	176.99	0.00	-69.61	7,474.66	3,732.00	3,608.47	123.53	30.211			
16,900.00	9,255.00	13,161.28	5,525.00	180.73	179.29	0.00	-69.66	7,574.66	3,732.00	3,606.94	125.06	29.841			
17,000.00	9,255.00	13,261.28	5,525.00	183.00	181.58	0.00	-69.71	7,674.66	3,732.00	3,605.40	126.60	29.478			
17,100.00	9,255.00	13,361.28	5,525.00	185.27	183.88	0.00	-69.77	7,774.66	3,732.00	3,603.86	128.14	29.125			
17,200.00	9,255.00	13,461.28	5,525.00	187.54	186.17	0.00	-69.82	7,874.66	3,732.00	3,602.32	129.68	28.779			
17,300.00	9,255.00	13,561.28	5,525.00	189.81	188.47	0.00	-69.87	7,974.66	3,732.00	3,600.79	131.21	28.442			

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 #205H
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:	#205H	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 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		
17,400.00	9,255.00	13,661.28	5,525.00	192.09	190.76	0.00	-69.93	8,074.66	3,732.00	3,599.25	132.75	28.112		
17,500.00	9,255.00	13,761.28	5,525.00	194.36	193.06	0.00	-69.98	8,174.66	3,732.00	3,597.71	134.29	27.790		
17,600.00	9,255.00	13,861.28	5,525.00	196.64	195.36	0.00	-70.03	8,274.66	3,732.00	3,596.17	135.83	27.475		
17,700.00	9,255.00	13,961.28	5,525.00	198.91	197.65	0.00	-70.09	8,374.66	3,732.00	3,594.62	137.38	27.166		
17,800.00	9,255.00	14,061.28	5,525.00	201.19	199.95	0.00	-70.14	8,474.66	3,732.00	3,593.08	138.92	26.865		
17,900.00	9,255.00	14,161.28	5,525.00	203.47	202.25	0.00	-70.19	8,574.66	3,732.00	3,591.54	140.46	26.570		
18,000.00	9,255.00	14,261.28	5,525.00	205.74	204.54	0.00	-70.25	8,674.66	3,732.00	3,590.00	142.00	26.281		
18,100.00	9,255.00	14,361.28	5,525.00	208.02	206.84	0.00	-70.30	8,774.66	3,732.00	3,588.45	143.55	25.999		
18,200.00	9,255.00	14,461.28	5,525.00	210.30	209.14	0.00	-70.35	8,874.66	3,732.00	3,586.91	145.09	25.722		
18,300.00	9,255.00	14,561.28	5,525.00	212.58	211.44	0.00	-70.41	8,974.66	3,732.00	3,585.37	146.63	25.451		
18,400.00	9,255.00	14,661.28	5,525.00	214.86	213.74	0.00	-70.46	9,074.66	3,732.00	3,583.82	148.18	25.186		
18,500.00	9,255.00	14,761.28	5,525.00	217.14	216.04	0.00	-70.51	9,174.66	3,732.00	3,582.27	149.73	24.926		
18,600.00	9,255.00	14,861.28	5,525.00	219.43	218.33	0.00	-70.57	9,274.66	3,732.00	3,580.73	151.27	24.671		
18,700.00	9,255.00	14,961.28	5,525.00	221.71	220.63	0.00	-70.62	9,374.66	3,732.00	3,579.18	152.82	24.421		
18,800.00	9,255.00	15,061.28	5,525.00	223.99	222.93	0.00	-70.68	9,474.66	3,732.00	3,577.63	154.37	24.176		
18,900.00	9,255.00	15,161.28	5,525.00	226.28	225.23	0.00	-70.73	9,574.66	3,732.00	3,576.09	155.91	23.936		
19,000.00	9,255.00	15,261.28	5,525.00	228.56	227.53	0.00	-70.78	9,674.66	3,732.00	3,574.54	157.46	23.701		
19,100.00	9,255.00	15,361.28	5,525.00	230.84	229.83	0.00	-70.84	9,774.66	3,732.00	3,572.99	159.01	23.470		
19,200.00	9,255.00	15,461.28	5,525.00	233.13	232.13	0.00	-70.89	9,874.66	3,732.00	3,571.44	160.56	23.244		
19,300.00	9,255.00	15,561.28	5,525.00	235.41	234.43	0.00	-70.94	9,974.66	3,732.00	3,569.89	162.11	23.022		
19,400.00	9,255.00	15,661.28	5,525.00	236.87	236.73	0.00	-71.00	10,074.66	3,732.00	3,568.33	163.27	22.857		
19,407.34	9,255.00	15,668.63	5,525.00	236.98	236.90	0.00	-71.00	10,082.00	3,732.00	3,568.64	163.36	22.845		

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 #205H
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:	#205H	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: 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 Factor		
0.00	0.00	1.00	1.00	0.00	0.00	-170.65	-480.00	-79.00	486.46				
100.00	100.00	101.00	101.00	0.13	0.13	-170.65	-480.00	-79.00	486.46	486.20	1,871.767		
200.00	200.00	201.00	201.00	0.49	0.49	-170.65	-480.00	-79.00	486.46	485.48	0.98 497.993		
300.00	300.00	301.00	301.00	0.85	0.85	-170.65	-480.00	-79.00	486.46	484.76	1.69 287.203		
400.00	400.00	401.00	401.00	1.20	1.21	-170.65	-480.00	-79.00	486.46	484.05	2.41 201.789		
500.00	500.00	501.00	501.00	1.56	1.57	-170.65	-480.00	-79.00	486.46	483.33	3.13 155.534		
600.00	600.00	601.00	601.00	1.92	1.92	-170.65	-480.00	-79.00	486.46	482.61	3.84 126.530		
700.00	700.00	701.00	701.00	2.28	2.28	-170.65	-480.00	-79.00	486.46	481.90	4.56 106.643		
800.00	800.00	801.00	801.00	2.64	2.64	-170.65	-480.00	-79.00	486.46	481.18	5.28 92.158 CC, ES		
900.00	899.98	900.98	900.98	2.99	3.00	-117.83	-480.00	-79.00	487.27	481.28	5.99 81.316		
1,000.00	999.84	1,000.84	1,000.84	3.35	3.36	-118.33	-480.00	-79.00	489.74	483.03	6.71 73.040		
1,100.00	1,099.45	1,100.45	1,100.45	3.71	3.71	-119.14	-480.00	-79.00	493.94	486.52	7.42 66.559		
1,200.00	1,198.72	1,200.28	1,199.72	4.07	4.07	-120.27	-480.00	-79.00	499.96	491.81	8.14 61.390		
1,300.00	1,297.86	1,301.14	1,298.86	4.44	4.43	-121.54	-480.00	-79.00	506.70	497.83	8.87 57.101		
1,400.00	1,397.01	1,401.99	1,398.01	4.82	4.80	-122.77	-480.00	-79.00	513.68	504.08	9.61 53.472		
1,500.00	1,496.15	1,497.15	1,497.15	5.20	5.14	-123.97	-480.00	-79.00	520.90	510.58	10.32 50.469		
1,600.00	1,595.30	1,581.32	1,581.31	5.58	5.42	-124.95	-481.15	-79.12	529.71	518.73	10.98 48.253		
1,700.00	1,694.44	1,664.58	1,664.49	5.96	5.70	-125.87	-484.70	-79.49	541.59	529.98	11.61 46.639		
1,800.00	1,793.59	1,747.23	1,746.93	6.35	5.97	-126.73	-490.60	-80.11	556.50	544.26	12.23 45.488		
1,900.00	1,892.74	1,829.15	1,828.43	6.74	6.24	-127.51	-498.79	-80.97	574.37	561.52	12.84 44.718		
2,000.00	1,991.88	1,910.22	1,908.82	7.13	6.51	-128.21	-509.16	-82.07	595.13	581.69	13.44 44.271		
2,100.00	2,091.03	1,990.32	1,987.93	7.52	6.79	-128.83	-521.63	-83.38	618.71	604.68	14.03 44.106		
2,200.00	2,190.17	2,069.34	2,065.60	7.91	7.07	-129.37	-536.08	-84.89	645.02	630.42	14.60 44.181		
2,300.00	2,289.32	2,150.47	2,144.91	8.30	7.37	-129.86	-553.08	-86.68	673.95	658.77	15.18 44.388		
2,400.00	2,388.46	2,245.73	2,237.85	8.69	7.72	-130.37	-573.84	-88.86	703.79	687.91	15.88 44.323		
2,500.00	2,487.61	2,341.00	2,330.80	9.08	8.09	-130.84	-594.60	-91.05	733.67	717.09	16.58 44.255		
2,600.00	2,586.75	2,436.26	2,423.75	9.48	8.47	-131.28	-615.37	-93.23	763.60	746.32	17.28 44.184		
2,700.00	2,685.90	2,531.52	2,516.69	9.87	8.85	-131.68	-636.13	-95.41	793.56	775.57	17.99 44.113		
2,800.00	2,785.04	2,626.78	2,609.64	10.27	9.24	-132.06	-656.89	-97.59	823.56	804.86	18.70 44.041		
2,900.00	2,884.19	2,722.04	2,702.59	10.66	9.63	-132.40	-677.66	-99.78	853.58	834.17	19.41 43.969		
3,000.00	2,983.34	2,817.31	2,795.53	11.06	10.03	-132.73	-698.42	-101.96	883.64	863.51	20.13 43.898		
3,100.00	3,082.48	2,912.57	2,888.48	11.45	10.43	-133.03	-719.19	-104.14	913.71	892.86	20.85 43.828		
3,200.00	3,181.63	3,007.83	2,981.42	11.85	10.84	-133.31	-739.95	-106.32	943.81	922.24	21.57 43.759		
3,300.00	3,280.77	3,103.09	3,074.37	12.24	11.25	-133.60	-760.71	-108.51	973.93	951.64	22.29 43.692		
3,400.00	3,380.14	3,201.21	3,167.74	12.63	11.68	-134.20	-781.57	-110.70	1,002.80	979.78	23.02 43.562		
3,500.00	3,479.84	3,304.80	3,261.80	13.00	12.13	-134.61	-802.58	-112.91	1,029.34	1,005.58	23.76 43.318		
3,600.00	3,579.75	3,407.80	3,356.45	13.36	12.58	-134.84	-823.73	-115.13	1,053.51	1,029.01	24.50 43.007		
3,700.00	3,679.74	3,489.67	3,451.54	13.70	12.94	-172.20	-844.97	-117.36	1,075.41	1,050.26	25.14 42.775		
3,800.00	3,779.74	3,587.24	3,546.74	14.03	13.37	-172.47	-866.24	-119.60	1,096.73	1,070.88	25.85 42.433		
3,900.00	3,879.74	3,684.80	3,641.94	14.37	13.81	-172.73	-887.50	-121.83	1,118.08	1,091.53	26.55 42.108		
4,000.00	3,979.74	3,782.37	3,737.14	14.71	14.25	-172.99	-908.77	-124.07	1,139.45	1,112.19	27.26 41.798		
4,100.00	4,079.74	3,879.94	3,832.33	15.04	14.68	-173.23	-930.04	-126.31	1,160.84	1,132.87	27.97 41.503		
4,200.00	4,179.74	3,977.51	3,927.53	15.38	15.12	-173.46	-951.30	-128.54	1,182.25	1,153.57	28.68 41.222		
4,300.00	4,279.74	4,075.08	4,022.73	15.72	15.56	-173.69	-972.57	-130.78	1,203.67	1,174.28	29.39 40.953		
4,400.00	4,379.74	4,172.65	4,117.92	16.07	16.00	-173.91	-993.84	-133.01	1,225.12	1,195.01	30.10 40.697		
4,500.00	4,479.74	4,270.22	4,213.12	16.41	16.45	-174.12	-1,015.10	-135.25	1,246.58	1,215.76	30.82 40.451		
4,600.00	4,579.74	4,367.79	4,308.32	16.75	16.89	-174.32	-1,036.37	-137.48	1,268.05	1,236.52	31.53 40.216		
4,700.00	4,679.74	4,465.35	4,403.51	17.09	17.33	-174.52	-1,057.64	-139.72	1,289.54	1,257.30	32.25 39.991		
4,800.00	4,779.74	4,562.92	4,498.71	17.44	17.78	-174.71	-1,078.90	-141.95	1,311.05	1,278.09	32.96 39.775		
4,900.00	4,879.74	4,660.49	4,593.91	17.78	18.23	-174.89	-1,100.17	-144.19	1,332.57	1,298.89	33.68 39.568		
5,000.00	4,979.74	4,758.06	4,689.10	18.13	18.67	-175.07	-1,121.43	-146.42	1,354.10	1,319.71	34.40 39.369		
5,100.00	5,079.74	4,855.63	4,784.30	18.47	19.12	-175.25	-1,142.70	-148.66	1,375.64	1,340.53	35.11 39.178		

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 #205H
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:	#205H	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: 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 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
5,200.00	5,179.74	4,953.20	4,879.50	18.82	19.57	175.41	-1,163.97	-150.89	1,397.20	1,361.37	35.83	38.994	
5,300.00	5,279.74	5,048.88	4,972.85	19.17	20.01	175.57	-1,184.82	-153.07	1,418.77	1,382.23	36.54	38.832	
5,400.00	5,379.74	5,113.57	5,035.79	19.51	20.31	175.51	-1,199.42	-150.51	1,441.58	1,404.59	37.00	38.967	
5,500.00	5,479.74	5,176.48	5,096.15	19.86	20.59	175.18	-1,214.32	-141.11	1,466.65	1,429.23	37.42	39.199	
5,600.00	5,579.74	5,236.26	5,152.06	20.21	20.85	174.63	-1,228.98	-125.97	1,494.09	1,456.31	37.78	39.546	
5,700.00	5,679.74	5,291.95	5,202.34	20.56	21.08	173.91	-1,242.92	-106.57	1,524.11	1,486.03	38.08	40.024	
5,800.00	5,779.74	5,350.00	5,252.36	20.91	21.32	172.98	-1,257.61	-81.10	1,556.97	1,518.60	38.37	40.581	
5,900.00	5,879.74	5,389.32	5,284.61	21.25	21.47	172.25	-1,267.56	-60.94	1,592.80	1,554.35	38.45	41.420	
6,000.00	5,979.74	5,430.95	5,317.12	21.60	21.63	171.40	-1,278.06	-37.16	1,631.84	1,593.31	38.53	42.354	
6,100.00	6,079.74	5,468.22	5,344.65	21.95	21.78	170.58	-1,287.36	-13.83	1,674.16	1,635.63	38.53	43.454	
6,200.00	6,179.74	5,500.00	5,366.86	22.30	21.90	169.83	-1,295.20	7.49	1,719.78	1,681.33	38.44	44.735	
6,300.00	6,279.74	5,531.23	5,387.49	22.65	22.02	169.06	-1,302.79	29.67	1,768.67	1,730.33	38.34	46.135	
6,400.00	6,379.74	5,550.00	5,399.30	23.00	22.10	168.58	-1,307.29	43.55	1,820.79	1,782.71	38.08	47.815	
6,500.00	6,479.74	5,581.57	5,418.09	23.35	22.22	167.76	-1,314.74	67.79	1,875.91	1,837.96	37.95	49.433	
6,600.00	6,579.74	5,600.00	5,428.43	23.70	22.30	167.26	-1,319.01	82.44	1,934.00	1,896.33	37.67	51.342	
6,700.00	6,679.74	5,622.13	5,440.21	24.05	22.39	166.66	-1,324.06	100.47	1,994.85	1,957.42	37.43	53.291	
6,800.00	6,779.74	5,650.00	5,454.04	24.41	22.52	165.88	-1,330.27	123.86	2,058.39	2,021.13	37.26	55.251	
6,900.00	6,879.74	5,650.00	5,454.04	24.76	22.52	165.88	-1,330.27	123.86	2,124.22	2,087.42	36.80	57.727	
7,000.00	6,979.74	5,669.48	5,463.03	25.11	22.61	165.33	-1,334.51	140.61	2,192.35	2,155.79	36.56	59.967	
7,100.00	7,079.74	5,682.50	5,468.71	25.46	22.67	164.96	-1,337.29	151.99	2,262.60	2,226.34	36.27	62.389	
7,200.00	7,179.74	5,700.00	5,475.94	25.81	22.76	164.46	-1,340.97	167.50	2,334.82	2,298.78	36.03	64.796	
7,300.00	7,279.74	5,700.00	5,475.94	26.17	22.76	164.46	-1,340.97	167.50	2,408.80	2,373.16	35.65	67.576	
7,400.00	7,379.74	5,700.00	5,475.94	26.52	22.76	164.46	-1,340.97	167.50	2,484.61	2,449.33	35.28	70.422	
7,500.00	7,479.74	5,724.65	5,485.32	26.87	22.89	163.74	-1,346.02	189.73	2,561.60	2,526.41	35.19	72.794	
7,600.00	7,579.74	5,750.00	5,493.96	27.22	23.03	163.00	-1,351.05	213.02	2,640.41	2,605.29	35.12	75.189	
7,700.00	7,679.74	5,750.00	5,493.96	27.58	23.03	163.00	-1,351.05	213.02	2,720.13	2,685.31	34.82	78.113	
7,800.00	7,779.74	5,750.00	5,493.96	27.93	23.03	163.00	-1,351.05	213.02	2,801.15	2,766.60	34.55	81.065	
7,900.00	7,879.74	5,750.00	5,493.96	28.28	23.03	163.00	-1,351.05	213.02	2,883.37	2,849.06	34.31	84.036	
8,000.00	7,979.74	5,750.00	5,493.96	28.63	23.03	163.00	-1,351.05	213.02	2,966.68	2,932.58	34.09	87.018	
8,100.00	8,079.74	5,750.00	5,493.96	28.99	23.03	163.00	-1,351.05	213.02	3,050.99	3,017.09	33.90	90.003	
8,200.00	8,179.74	5,773.51	5,501.05	29.34	23.17	162.31	-1,355.54	234.98	3,135.77	3,101.83	33.94	92.391	
8,300.00	8,279.74	5,778.80	5,502.52	29.70	23.21	162.15	-1,356.53	239.96	3,221.62	3,187.78	33.84	95.214	
8,400.00	8,379.74	5,800.00	5,507.96	30.05	23.35	161.52	-1,360.41	260.08	3,308.44	3,274.55	33.89	97.633	
8,500.00	8,479.74	5,800.00	5,507.96	30.40	23.35	161.52	-1,360.41	260.08	3,395.63	3,361.86	33.78	100.534	
8,600.00	8,579.74	5,800.00	5,507.96	30.76	23.35	161.52	-1,360.41	260.08	3,483.52	3,449.83	33.69	103.413	
8,700.00	8,679.74	5,800.00	5,507.96	31.11	23.35	161.52	-1,360.41	260.08	3,572.04	3,538.42	33.62	106.262	
8,800.00	8,779.27	5,800.00	5,507.96	31.44	23.35	41.49	-1,360.41	260.08	3,658.54	3,625.02	33.52	109.137	
8,900.00	8,875.84	5,800.00	5,507.96	31.73	23.35	33.33	-1,360.41	260.08	3,738.73	3,705.35	33.39	111.976	
9,000.00	8,966.53	5,800.00	5,507.96	32.01	23.35	28.03	-1,360.41	260.08	3,810.65	3,777.43	33.23	114.691	
9,100.00	9,048.57	5,850.00	5,517.84	32.28	23.71	24.20	-1,369.00	308.32	3,872.18	3,838.76	33.42	115.858	
9,200.00	9,119.47	5,850.00	5,517.84	32.57	23.71	21.95	-1,369.00	308.32	3,921.80	3,888.57	33.23	118.021	
9,300.00	9,177.08	5,850.00	5,517.84	32.91	23.71	20.50	-1,369.00	308.32	3,958.92	3,925.86	33.06	119.752	
9,400.00	9,219.65	5,850.00	5,517.84	33.33	23.71	19.65	-1,369.00	308.32	3,982.80	3,949.87	32.94	120.924	
9,500.00	9,245.89	5,900.00	5,523.51	33.84	24.12	19.20	-1,376.74	357.37	3,992.18	3,958.97	33.21	120.198	
9,600.00	9,254.99	5,900.00	5,523.51	34.44	24.12	19.36	-1,376.74	357.37	3,987.15	3,953.91	33.23	119.971	
9,700.00	9,255.00	5,900.00	5,523.51	35.15	24.12	19.66	-1,376.74	357.37	3,976.85	3,943.48	33.37	119.191	
9,800.00	9,255.00	5,941.82	5,525.00	36.00	24.50	19.80	-1,382.53	398.76	3,970.33	3,936.46	33.86	117.244	
9,900.00	9,255.00	6,118.26	5,525.00	36.97	26.35	19.58	-1,387.49	574.98	3,965.24	3,930.08	35.16	112.777	
10,000.00	9,255.00	6,217.47	5,525.00	38.06	27.61	19.54	-1,387.55	674.20	3,961.05	3,924.88	36.17	109.525	
10,100.00	9,255.00	6,317.20	5,525.00	39.24	29.02	19.51	-1,387.60	773.92	3,958.63	3,921.33	37.30	106.136	
10,199.77	9,255.00	6,416.93	5,525.00	40.50	30.55	19.49	-1,387.66	873.65	3,957.86	3,919.32	38.54	102.684	
10,200.00	9,255.00	6,417.17	5,525.00	40.50	30.55	19.50	-1,387.66	873.89	3,957.96	3,919.41	38.55	102.672	

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 #205H
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:	#205H	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:
Reference	Offset	Semi-Major Axis		Distance		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)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	9,255.00	6,517.17	5,525.00	41.85	32.19	19.50	-1,387.72	973.89	3,957.96	3,918.07	39.89	99.223	
10,400.00	9,255.00	6,617.17	5,525.00	43.28	33.91	19.50	-1,387.78	1,073.89	3,957.96	3,916.67	41.29	95.848	
10,500.00	9,255.00	6,717.17	5,525.00	44.78	35.70	19.50	-1,387.84	1,173.89	3,957.97	3,915.21	42.76	92.570	
10,600.00	9,255.00	6,817.17	5,525.00	46.35	37.55	19.50	-1,387.89	1,273.89	3,957.97	3,913.70	44.27	89.404	
10,700.00	9,255.00	6,917.17	5,525.00	47.98	39.45	19.50	-1,387.95	1,373.89	3,957.97	3,912.14	45.83	86.357	
10,800.00	9,255.00	7,017.17	5,525.00	49.66	41.39	19.50	-1,388.01	1,473.89	3,957.98	3,910.54	47.44	83.436	
10,900.00	9,255.00	7,117.17	5,525.00	51.40	43.37	19.50	-1,388.07	1,573.89	3,957.98	3,908.90	49.08	80.643	
11,000.00	9,255.00	7,217.17	5,525.00	53.17	45.38	19.50	-1,388.13	1,673.89	3,957.99	3,907.23	50.76	77.977	
11,100.00	9,255.00	7,317.17	5,525.00	54.99	47.42	19.50	-1,388.18	1,773.89	3,957.99	3,905.52	52.47	75.436	
11,200.00	9,255.00	7,417.17	5,525.00	56.84	49.49	19.50	-1,388.24	1,873.89	3,957.99	3,903.79	54.21	73.017	
11,300.00	9,255.00	7,517.17	5,525.00	58.72	51.57	19.50	-1,388.30	1,973.89	3,958.00	3,902.02	55.97	70.714	
11,400.00	9,255.00	7,617.17	5,525.00	60.64	53.67	19.50	-1,388.36	2,073.89	3,958.00	3,900.24	57.76	68.524	
11,500.00	9,255.00	7,717.17	5,525.00	62.58	55.79	19.50	-1,388.42	2,173.89	3,958.00	3,898.43	59.57	66.442	
11,600.00	9,255.00	7,817.17	5,525.00	64.54	57.93	19.50	-1,388.47	2,273.89	3,958.01	3,896.61	61.40	64.461	
11,700.00	9,255.00	7,917.17	5,525.00	66.53	60.07	19.50	-1,388.53	2,373.89	3,958.01	3,894.76	63.25	62.577	
11,800.00	9,255.00	8,017.17	5,525.00	68.54	62.23	19.50	-1,388.59	2,473.89	3,958.01	3,892.90	65.12	60.784	
11,900.00	9,255.00	8,117.17	5,525.00	70.56	64.40	19.50	-1,388.65	2,573.89	3,958.02	3,891.02	67.00	59.077	
12,000.00	9,255.00	8,217.17	5,525.00	72.60	66.58	19.50	-1,388.71	2,673.89	3,958.02	3,889.13	68.89	57.452	
12,100.00	9,255.00	8,317.17	5,525.00	74.66	68.77	19.50	-1,388.76	2,773.89	3,958.02	3,887.22	70.80	55.903	
12,200.00	9,255.00	8,417.17	5,525.00	76.74	70.96	19.50	-1,388.82	2,873.89	3,958.03	3,885.31	72.72	54.427	
12,300.00	9,255.00	8,517.17	5,525.00	78.82	73.17	19.50	-1,388.88	2,973.89	3,958.03	3,883.38	74.65	53.019	
12,400.00	9,255.00	8,617.17	5,525.00	80.92	75.37	19.50	-1,388.94	3,073.89	3,958.04	3,881.44	76.60	51.675	
12,500.00	9,255.00	8,717.17	5,525.00	83.03	77.59	19.50	-1,388.99	3,173.89	3,958.04	3,879.49	78.55	50.391	
12,600.00	9,255.00	8,817.17	5,525.00	85.15	79.81	19.50	-1,389.05	3,273.89	3,958.04	3,877.54	80.51	49.164	
12,700.00	9,255.00	8,917.17	5,525.00	87.28	82.03	19.50	-1,389.11	3,373.89	3,958.05	3,875.57	82.48	47.990	
12,800.00	9,255.00	9,017.17	5,525.00	89.41	84.26	19.50	-1,389.17	3,473.89	3,958.05	3,873.60	84.45	46.867	
12,900.00	9,255.00	9,117.17	5,525.00	91.56	86.50	19.50	-1,389.23	3,573.89	3,958.05	3,871.62	86.44	45.791	
13,000.00	9,255.00	9,217.17	5,525.00	93.71	88.73	19.50	-1,389.28	3,673.89	3,958.06	3,869.63	88.43	44.761	
13,100.00	9,255.00	9,317.17	5,525.00	95.88	90.97	19.50	-1,389.34	3,773.89	3,958.06	3,867.64	90.42	43.772	
13,200.00	9,255.00	9,417.17	5,525.00	98.04	93.22	19.50	-1,389.40	3,873.89	3,958.06	3,865.64	92.43	42.824	
13,300.00	9,255.00	9,517.17	5,525.00	100.22	95.47	19.50	-1,389.46	3,973.89	3,958.07	3,863.63	94.44	41.913	
13,400.00	9,255.00	9,617.17	5,525.00	102.40	97.72	19.50	-1,389.52	4,073.89	3,958.07	3,861.62	96.45	41.038	
13,500.00	9,255.00	9,717.17	5,525.00	104.58	99.97	19.50	-1,389.57	4,173.89	3,958.08	3,859.61	98.47	40.197	
13,600.00	9,255.00	9,817.17	5,525.00	106.77	102.22	19.50	-1,389.63	4,273.89	3,958.08	3,857.59	100.49	39.388	
13,700.00	9,255.00	9,917.17	5,525.00	108.97	104.48	19.50	-1,389.69	4,373.89	3,958.08	3,855.57	102.52	38.609	
13,800.00	9,255.00	10,017.17	5,525.00	111.17	106.74	19.50	-1,389.75	4,473.89	3,958.09	3,853.54	104.55	37.859	
13,900.00	9,255.00	10,117.17	5,525.00	113.38	109.00	19.50	-1,389.81	4,573.89	3,958.09	3,851.51	106.58	37.136	
14,000.00	9,255.00	10,217.17	5,525.00	115.58	111.27	19.50	-1,389.86	4,673.89	3,958.09	3,849.47	108.62	36.439	
14,100.00	9,255.00	10,317.17	5,525.00	117.80	113.53	19.50	-1,389.92	4,773.89	3,958.10	3,847.43	110.66	35.767	
14,200.00	9,255.00	10,417.17	5,525.00	120.01	115.80	19.50	-1,389.98	4,873.89	3,958.10	3,845.39	112.71	35.118	
14,300.00	9,255.00	10,517.17	5,525.00	122.23	118.07	19.50	-1,390.04	4,973.89	3,958.10	3,843.35	114.76	34.491	
14,400.00	9,255.00	10,617.17	5,525.00	124.46	120.34	19.50	-1,390.10	5,073.89	3,958.11	3,841.30	116.81	33.885	
14,500.00	9,255.00	10,717.17	5,525.00	126.68	122.61	19.50	-1,390.15	5,173.89	3,958.11	3,839.25	118.86	33.299	
14,600.00	9,255.00	10,817.17	5,525.00	128.91	124.89	19.50	-1,390.21	5,273.89	3,958.11	3,837.19	120.92	32.733	
14,700.00	9,255.00	10,917.17	5,525.00	131.14	127.16	19.50	-1,390.27	5,373.89	3,958.12	3,835.14	122.98	32.185	
14,800.00	9,255.00	11,017.17	5,525.00	133.38	129.44	19.50	-1,390.33	5,473.89	3,958.12	3,833.08	125.04	31.654	
14,900.00	9,255.00	11,117.17	5,525.00	135.61	131.71	19.50	-1,390.39	5,573.89	3,958.13	3,831.02	127.11	31.140	
15,000.00	9,255.00	11,217.17	5,525.00	137.85	133.99	19.50	-1,390.44	5,673.89	3,958.13	3,828.96	129.17	30.642	
15,100.00	9,255.00	11,317.17	5,525.00	140.09	136.27	19.50	-1,390.50	5,773.89	3,958.13	3,826.89	131.24	30.159	
15,200.00	9,255.00	11,417.17	5,525.00	142.34	138.55	19.50	-1,390.56	5,873.89	3,958.14	3,824.83	133.31	29.691	
15,300.00	9,255.00	11,517.17	5,525.00	144.58	140.83	19.50	-1,390.62	5,973.89	3,958.14	3,822.76	135.38	29.237	
15,400.00	9,255.00	11,617.17	5,525.00	146.83	143.11	19.50	-1,390.68	6,073.89	3,958.14	3,820.69	137.46	28.796	

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 #205H
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:	#205H	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:	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)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,500.00	9,255.00	11,717.17	5,525.00	149.08	145.40	19.50	-1,390.73	6,173.89	3,958.15	3,818.62	139.53	28.367	
15,600.00	9,255.00	11,817.17	5,525.00	151.33	147.68	19.51	-1,390.79	6,273.89	3,958.15	3,816.54	141.61	27.951	
15,700.00	9,255.00	11,917.17	5,525.00	153.58	149.96	19.51	-1,390.85	6,373.89	3,958.15	3,814.47	143.69	27.547	
15,800.00	9,255.00	12,017.17	5,525.00	155.84	152.25	19.51	-1,390.91	6,473.89	3,958.16	3,812.39	145.77	27.154	
15,900.00	9,255.00	12,117.17	5,525.00	158.09	154.53	19.51	-1,390.97	6,573.89	3,958.16	3,810.31	147.85	26.772	
16,000.00	9,255.00	12,217.17	5,525.00	160.35	156.82	19.51	-1,391.02	6,673.89	3,958.17	3,808.23	149.93	26.400	
16,100.00	9,255.00	12,317.17	5,525.00	162.61	159.11	19.51	-1,391.08	6,773.89	3,958.17	3,806.15	152.02	26.038	
16,200.00	9,255.00	12,417.17	5,525.00	164.87	161.39	19.51	-1,391.14	6,873.89	3,958.17	3,804.07	154.10	25.685	
16,300.00	9,255.00	12,517.17	5,525.00	167.13	163.68	19.51	-1,391.20	6,973.89	3,958.18	3,801.99	156.19	25.342	
16,400.00	9,255.00	12,617.17	5,525.00	169.40	165.97	19.51	-1,391.26	7,073.89	3,958.18	3,799.90	158.28	25.008	
16,500.00	9,255.00	12,717.17	5,525.00	171.66	168.26	19.51	-1,391.31	7,173.89	3,958.18	3,797.82	160.37	24.682	
16,600.00	9,255.00	12,817.17	5,525.00	173.93	170.55	19.51	-1,391.37	7,273.89	3,958.19	3,795.73	162.46	24.364	
16,700.00	9,255.00	12,917.17	5,525.00	176.19	172.84	19.51	-1,391.43	7,373.89	3,958.19	3,793.64	164.55	24.055	
16,800.00	9,255.00	13,017.17	5,525.00	178.46	175.13	19.51	-1,391.49	7,473.89	3,958.19	3,791.55	166.64	23.753	
16,900.00	9,255.00	13,117.17	5,525.00	180.73	177.42	19.51	-1,391.54	7,573.89	3,958.20	3,789.46	168.73	23.458	
17,000.00	9,255.00	13,217.17	5,525.00	183.00	179.72	19.51	-1,391.60	7,673.89	3,958.20	3,787.37	170.83	23.171	
17,100.00	9,255.00	13,317.17	5,525.00	185.27	182.01	19.51	-1,391.66	7,773.89	3,958.20	3,785.28	172.92	22.890	
17,200.00	9,255.00	13,417.17	5,525.00	187.54	184.30	19.51	-1,391.72	7,873.89	3,958.21	3,783.19	175.02	22.616	
17,300.00	9,255.00	13,517.17	5,525.00	189.81	186.59	19.51	-1,391.78	7,973.89	3,958.21	3,781.10	177.12	22.348	
17,400.00	9,255.00	13,617.17	5,525.00	192.09	188.89	19.51	-1,391.83	8,073.89	3,958.22	3,779.00	179.21	22.087	
17,500.00	9,255.00	13,717.17	5,525.00	194.36	191.18	19.51	-1,391.89	8,173.89	3,958.22	3,776.91	181.31	21.831	
17,600.00	9,255.00	13,817.17	5,525.00	196.64	193.47	19.51	-1,391.95	8,273.89	3,958.22	3,774.81	183.41	21.581	
17,700.00	9,255.00	13,917.17	5,525.00	198.91	195.77	19.51	-1,392.01	8,373.89	3,958.23	3,772.71	185.51	21.337	
17,800.00	9,255.00	14,017.17	5,525.00	201.19	198.06	19.51	-1,392.07	8,473.89	3,958.23	3,770.62	187.61	21.098	
17,900.00	9,255.00	14,117.17	5,525.00	203.47	200.36	19.51	-1,392.12	8,573.89	3,958.23	3,768.52	189.71	20.864	
18,000.00	9,255.00	14,217.17	5,525.00	205.74	202.65	19.51	-1,392.18	8,673.89	3,958.24	3,766.42	191.82	20.636	
18,100.00	9,255.00	14,317.17	5,525.00	208.02	204.95	19.51	-1,392.24	8,773.89	3,958.24	3,764.32	193.92	20.412	
18,200.00	9,255.00	14,417.17	5,525.00	210.30	207.25	19.51	-1,392.30	8,873.89	3,958.24	3,762.22	196.02	20.193	
18,300.00	9,255.00	14,517.17	5,525.00	212.58	209.54	19.51	-1,392.36	8,973.89	3,958.25	3,760.12	198.13	19.979	
18,400.00	9,255.00	14,617.17	5,525.00	214.86	211.84	19.51	-1,392.41	9,073.89	3,958.25	3,758.02	200.23	19.769	
18,500.00	9,255.00	14,717.17	5,525.00	217.14	214.14	19.51	-1,392.47	9,173.89	3,958.25	3,755.92	202.33	19.563	
18,600.00	9,255.00	14,817.17	5,525.00	219.43	216.43	19.51	-1,392.53	9,273.89	3,958.26	3,753.82	204.44	19.361	
18,700.00	9,255.00	14,917.17	5,525.00	221.71	218.73	19.51	-1,392.59	9,373.89	3,958.26	3,751.72	206.55	19.164	
18,800.00	9,255.00	15,017.17	5,525.00	223.99	221.03	19.51	-1,392.65	9,473.89	3,958.27	3,749.61	208.65	18.971	
18,900.00	9,255.00	15,117.17	5,525.00	226.28	223.33	19.51	-1,392.70	9,573.89	3,958.27	3,747.51	210.76	18.781	
19,000.00	9,255.00	15,217.17	5,525.00	228.56	225.62	19.51	-1,392.76	9,673.89	3,958.27	3,745.41	212.87	18.595	
19,100.00	9,255.00	15,317.17	5,525.00	230.84	227.92	19.51	-1,392.82	9,773.89	3,958.28	3,743.30	214.98	18.413	
19,200.00	9,255.00	15,417.17	5,525.00	233.13	230.22	19.51	-1,392.88	9,873.89	3,958.28	3,741.20	217.08	18.234	
19,300.00	9,255.00	15,517.17	5,525.00	235.41	232.52	19.51	-1,392.94	9,973.89	3,958.28	3,739.09	219.19	18.058	
19,400.00	9,255.00	15,617.17	5,525.00	236.87	234.82	19.51	-1,392.99	10,073.89	3,958.29	3,737.43	220.85	17.923	
19,407.34	9,255.00	15,624.51	5,525.00	236.98	234.99	19.51	-1,393.00	10,081.23	3,958.29	3,737.31	220.98	17.913 SF	

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #205H
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:	#205H	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 (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N-S (usft)	+E/W (usft)				Between Centres (usft)
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 CC, ES	
900.00	899.98	900.98	900.98	2.99	3.00	-116.14	-560.00	-109.00	571.28	565.28	5.99 95.335	
1,000.00	999.84	1,000.84	1,000.84	3.35	3.36	-116.57	-560.00	-109.00	573.60	566.90	6.71 85.548	
1,100.00	1,099.45	1,100.45	1,100.45	3.71	3.71	-117.27	-560.00	-109.00	577.56	570.14	7.42 77.828	
1,200.00	1,198.72	1,200.28	1,199.72	4.07	4.07	-118.24	-560.00	-109.00	583.22	575.07	8.14 71.613	
1,300.00	1,297.86	1,301.14	1,298.86	4.44	4.43	-119.35	-560.00	-109.00	589.54	580.67	8.87 66.433	
1,400.00	1,397.01	1,401.99	1,398.01	4.82	4.80	-120.44	-560.00	-109.00	596.09	586.48	9.61 62.042	
1,500.00	1,496.15	1,497.15	1,497.15	5.20	5.14	-121.50	-560.00	-109.00	602.84	592.52	10.32 58.396	
1,600.00	1,595.30	1,594.77	1,594.75	5.58	5.48	-122.38	-560.00	-110.57	609.92	598.88	11.04 55.240	
1,700.00	1,694.44	1,707.29	1,692.56	5.96	5.87	-122.93	-560.00	-115.47	617.36	605.56	11.81 52.289	
1,800.00	1,793.59	1,807.66	1,791.95	6.35	6.21	-123.30	-560.00	-122.42	624.98	612.44	12.54 49.858	
1,900.00	1,892.74	1,908.03	1,891.34	6.74	6.57	-123.65	-560.00	-129.37	632.62	619.35	13.27 47.683	
2,000.00	1,991.88	2,008.40	1,990.73	7.13	6.92	-124.00	-560.00	-136.32	640.28	626.28	14.00 45.727	
2,100.00	2,091.03	2,108.77	2,090.11	7.52	7.28	-124.34	-560.00	-143.27	647.97	633.23	14.74 43.960	
2,200.00	2,190.17	2,209.14	2,189.50	7.91	7.63	-124.68	-560.00	-150.22	655.68	640.20	15.48 42.357	
2,300.00	2,289.32	2,309.51	2,288.89	8.30	7.99	-125.00	-560.00	-157.17	663.41	647.19	16.22 40.897	
2,400.00	2,388.46	2,409.88	2,388.28	8.69	8.35	-125.32	-560.00	-164.12	671.16	654.20	16.96 39.563	
2,500.00	2,487.61	2,489.75	2,487.67	9.08	8.64	-125.63	-560.00	-171.07	678.93	661.30	17.64 38.499	
2,600.00	2,586.75	2,589.38	2,587.05	9.48	9.00	-125.94	-560.00	-178.02	686.72	668.35	18.38 37.366	
2,700.00	2,685.90	2,689.01	2,686.44	9.87	9.36	-126.23	-560.00	-184.97	694.54	675.41	19.12 36.321	
2,800.00	2,785.04	2,788.64	2,785.83	10.27	9.72	-126.52	-560.00	-191.92	702.36	682.50	19.87 35.354	
2,900.00	2,884.19	2,888.27	2,885.22	10.66	10.08	-126.81	-560.00	-198.87	710.21	689.60	20.61 34.456	
3,000.00	2,983.34	2,987.90	2,984.61	11.06	10.44	-127.08	-560.00	-205.82	718.07	696.71	21.36 33.620	
3,100.00	3,082.48	3,071.64	3,068.15	11.45	10.74	-127.34	-560.74	-211.33	726.87	704.84	22.03 32.998	
3,200.00	3,181.63	3,152.00	3,148.34	11.85	11.03	-127.65	-563.52	-215.69	738.23	715.57	22.66 32.574	
3,300.00	3,280.77	3,231.73	3,227.86	12.24	11.31	-128.02	-568.31	-219.11	752.18	728.90	23.28 32.315	
3,400.00	3,380.14	3,316.49	3,312.27	12.63	11.60	-128.61	-575.49	-221.80	767.44	743.54	23.90 32.113	
3,500.00	3,479.84	3,415.49	3,410.82	13.00	11.94	-129.03	-584.49	-224.68	781.22	756.62	24.60 31.759	
3,600.00	3,579.75	3,514.81	3,509.68	13.36	12.28	-129.21	-593.51	-227.56	792.82	767.53	25.29 31.346	
3,700.00	3,679.74	3,614.32	3,608.74	13.70	12.62	-129.88	-602.55	-230.44	802.33	776.35	25.98 30.885	
3,800.00	3,779.74	3,713.87	3,707.83	14.03	12.97	-130.11	-611.59	-233.33	811.31	784.65	26.66 30.428	
3,900.00	3,879.74	3,813.41	3,806.92	14.37	13.32	-130.33	-620.63	-236.22	820.30	792.95	27.35 29.993	
4,000.00	3,979.74	3,912.96	3,906.01	14.71	13.67	-130.55	-629.67	-239.11	829.31	801.27	28.04 29.577	
4,100.00	4,079.74	4,012.50	4,005.10	15.04	14.02	-130.76	-638.71	-242.00	838.33	809.60	28.73 29.180	
4,200.00	4,179.74	4,112.05	4,104.20	15.38	14.38	-130.97	-647.75	-244.88	847.35	817.93	29.42 28.801	
4,300.00	4,279.74	4,211.59	4,203.29	15.72	14.73	-131.18	-656.79	-247.77	856.39	826.28	30.11 28.439	
4,400.00	4,379.74	4,311.14	4,302.38	16.07	15.09	-131.38	-665.84	-250.66	865.44	834.63	30.81 28.092	
4,500.00	4,479.74	4,410.68	4,401.47	16.41	15.45	-131.58	-674.88	-253.55	874.50	843.00	31.50 27.759	
4,600.00	4,579.74	4,510.22	4,500.56	16.75	15.81	-131.77	-683.92	-256.43	883.57	851.37	32.20 27.440	
4,700.00	4,679.74	4,609.77	4,599.65	17.09	16.17	-131.96	-692.96	-259.32	892.65	859.75	32.90 27.135	
4,800.00	4,779.74	4,709.31	4,698.74	17.44	16.53	-132.15	-702.00	-262.21	901.74	868.15	33.60 26.841	
4,900.00	4,879.74	4,839.89	4,828.88	17.78	17.00	-132.34	-712.13	-265.44	909.62	875.14	34.38 26.379	
5,000.00	4,979.74	4,983.44	4,972.32	18.13	17.51	-132.53	-716.87	-266.96	912.94	877.55	35.39 25.798	
5,100.00	5,079.74	5,108.14	5,080.74	18.47	17.93	-132.72	-717.00	-267.00	913.03	876.86	36.17 25.244	

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 #205H
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:	#205H	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			Distance						
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
5,200.00	5,179.74	5,208.14	5,180.74	18.82	18.27	-179.56	-717.00	-267.00	913.03	876.17	36.86	24.770	
5,300.00	5,279.74	5,308.14	5,280.74	19.17	18.62	-179.56	-717.00	-267.00	913.03	875.47	37.55	24.313	
5,400.00	5,379.74	5,408.14	5,380.74	19.51	18.96	-179.56	-717.00	-267.00	913.03	874.78	38.25	23.871	
5,500.00	5,479.74	5,508.14	5,480.74	19.86	19.30	-179.56	-717.00	-267.00	913.03	874.08	38.94	23.445	
5,600.00	5,579.74	5,608.14	5,580.74	20.21	19.64	-179.56	-717.00	-267.00	913.03	873.39	39.64	23.034	
5,700.00	5,679.74	5,708.14	5,680.74	20.56	19.99	-179.56	-717.00	-267.00	913.03	872.69	40.33	22.636	
5,800.00	5,779.74	5,808.14	5,780.74	20.91	20.33	-179.56	-717.00	-267.00	913.03	871.99	41.03	22.252	
5,900.00	5,879.74	5,908.14	5,880.74	21.25	20.68	-179.56	-717.00	-267.00	913.03	871.30	41.73	21.879	
6,000.00	5,979.74	6,008.14	5,980.74	21.60	21.02	-179.56	-717.00	-267.00	913.03	870.60	42.43	21.519	
6,100.00	6,079.74	6,108.14	6,080.74	21.95	21.37	-179.56	-717.00	-267.00	913.03	869.90	43.13	21.170	
6,200.00	6,179.74	6,208.14	6,180.74	22.30	21.72	-179.56	-717.00	-267.00	913.03	869.20	43.83	20.832	
6,300.00	6,279.74	6,291.86	6,280.74	22.65	22.01	-179.56	-717.00	-267.00	913.03	868.56	44.47	20.531	
6,307.22	6,286.96	6,300.92	6,287.96	22.68	22.04	-179.56	-717.00	-267.00	913.03	868.50	44.53	20.505	
6,400.00	6,379.74	6,380.37	6,369.18	23.00	22.31	-179.71	-717.35	-264.56	913.43	868.31	45.12	20.245	
6,500.00	6,479.74	6,460.54	6,448.22	23.35	22.56	179.48	-719.18	-251.70	915.79	870.09	45.70	20.039	
6,600.00	6,579.74	6,535.75	6,520.06	23.70	22.79	178.12	-722.29	-229.82	920.79	874.57	46.21	19.924	
6,700.00	6,679.74	6,604.15	6,582.37	24.05	22.98	176.40	-726.25	-201.99	929.30	882.67	46.62	19.932	
6,800.00	6,779.74	6,664.96	6,634.61	24.41	23.14	174.53	-730.63	-171.23	942.27	895.39	46.88	20.098	
6,900.00	6,879.74	6,718.24	6,677.45	24.76	23.28	172.65	-735.09	-139.91	960.56	913.60	46.96	20.454	
7,000.00	6,979.74	6,764.53	6,712.15	25.11	23.42	170.87	-739.40	-109.60	984.75	937.92	46.83	21.027	
7,100.00	7,079.74	6,800.00	6,737.01	25.46	23.54	169.42	-742.97	-84.55	1,015.18	968.74	46.44	21.860	
7,200.00	7,179.74	6,839.39	6,762.71	25.81	23.70	167.74	-747.17	-55.02	1,051.83	1,005.85	45.98	22.877	
7,300.00	7,279.74	6,869.58	6,781.00	26.17	23.82	166.41	-750.56	-31.23	1,094.56	1,049.25	45.30	24.162	
7,400.00	7,379.74	6,900.00	6,798.11	26.52	23.96	165.05	-754.10	-6.34	1,143.02	1,098.46	44.57	25.648	
7,500.00	7,479.74	6,919.02	6,808.12	26.87	24.06	164.19	-756.38	9.68	1,196.73	1,153.08	43.65	27.416	
7,600.00	7,579.74	6,950.00	6,823.26	27.22	24.21	162.78	-760.18	36.43	1,255.36	1,212.45	42.91	29.257	
7,700.00	7,679.74	6,950.00	6,823.26	27.58	24.21	162.78	-760.18	36.43	1,318.12	1,276.36	41.76	31.568	
7,800.00	7,779.74	6,973.42	6,833.73	27.93	24.35	161.70	-763.14	57.17	1,384.69	1,343.70	40.99	33.779	
7,900.00	7,879.74	7,000.00	6,844.56	28.28	24.50	160.48	-766.56	81.20	1,454.86	1,414.53	40.33	36.075	
8,000.00	7,979.74	7,000.00	6,844.56	28.63	24.50	160.48	-766.56	81.20	1,527.69	1,488.32	39.37	38.800	
8,100.00	8,079.74	7,000.00	6,844.56	28.99	24.50	160.48	-766.56	81.20	1,603.46	1,564.96	38.50	41.645	
8,200.00	8,179.74	7,022.83	6,852.95	29.34	24.65	159.44	-769.55	102.22	1,681.22	1,643.22	38.01	44.232	
8,300.00	8,279.74	7,032.43	6,856.23	29.70	24.71	159.00	-770.82	111.15	1,761.18	1,723.76	37.42	47.069	
8,400.00	8,379.74	7,050.00	6,861.83	30.05	24.83	158.20	-773.16	127.63	1,843.00	1,806.01	36.99	49.826	
8,500.00	8,479.74	7,050.00	6,861.83	30.40	24.83	158.20	-773.16	127.63	1,926.25	1,889.82	36.42	52.883	
8,600.00	8,579.74	7,050.00	6,861.83	30.76	24.83	158.20	-773.16	127.63	2,011.02	1,975.09	35.93	55.967	
8,700.00	8,679.74	7,050.00	6,861.83	31.11	24.83	158.20	-773.16	127.63	2,097.14	2,061.63	35.51	59.064	
8,800.00	8,779.27	7,071.49	6,867.98	31.44	24.98	39.07	-776.07	148.02	2,181.05	2,145.75	35.29	61.803	
8,900.00	8,875.84	7,100.00	6,874.95	31.73	25.19	31.30	-779.96	175.38	2,258.94	2,223.87	35.07	64.404	
9,000.00	8,966.53	7,100.00	6,874.95	32.01	25.19	26.67	-779.96	175.38	2,327.94	2,293.38	34.55	67.377	
9,100.00	9,048.57	7,100.00	6,874.95	32.28	25.19	23.52	-779.96	175.38	2,387.54	2,353.51	34.03	70.157	
9,200.00	9,119.47	7,127.15	6,880.29	32.57	25.41	21.13	-783.71	201.73	2,435.93	2,402.18	33.76	72.159	
9,300.00	9,177.08	7,150.00	6,883.81	32.91	25.59	19.59	-786.89	224.09	2,472.53	2,439.05	33.48	73.844	
9,400.00	9,219.65	7,150.00	6,883.81	33.33	25.59	18.78	-786.89	224.09	2,496.60	2,463.47	33.14	75.346	
9,500.00	9,245.89	7,200.00	6,888.35	33.84	26.03	18.19	-793.91	273.37	2,507.57	2,474.37	33.20	75.529	
9,600.00	9,254.99	7,200.00	6,888.35	34.44	26.03	18.28	-793.91	273.37	2,504.77	2,471.66	33.11	75.651	
9,700.00	9,255.00	7,227.16	6,889.00	35.15	26.27	18.41	-797.73	300.24	2,497.69	2,464.37	33.31	74.979	
9,800.00	9,255.00	7,319.21	6,889.00	36.00	27.21	18.31	-809.23	391.57	2,494.33	2,460.42	33.91	73.558	
9,900.00	9,255.00	7,456.18	6,889.00	36.97	28.83	18.12	-820.91	528.03	2,491.44	2,456.63	34.81	71.573	
10,000.00	9,255.00	7,592.62	6,889.00	38.06	30.65	17.93	-826.04	664.36	2,488.73	2,452.90	35.83	69.467	
10,100.00	9,255.00	7,702.49	6,889.00	39.24	32.27	17.82	-826.35	774.23	2,486.56	2,449.72	36.84	67.492	
10,199.71	9,255.00	7,802.17	6,889.00	40.50	33.83	17.79	-826.41	873.90	2,485.86	2,447.91	37.95	65.506	

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 #205H
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:	#205H	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		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	
10,200.00	9,255.00	7,802.46	6,889.00	40.50	33.83	17.80	-826.41	874.20	2,485.95	2,447.99	37.96	65.496	
10,300.00	9,255.00	7,902.46	6,889.00	41.85	35.48	17.80	-826.48	974.20	2,485.95	2,446.78	39.17	63.469	
10,400.00	9,255.00	8,002.46	6,889.00	43.28	37.20	17.80	-826.54	1,074.20	2,485.96	2,445.51	40.45	61.462	
10,500.00	9,255.00	8,102.46	6,889.00	44.78	38.98	17.80	-826.60	1,174.20	2,485.96	2,444.17	41.79	59.492	
10,600.00	9,255.00	8,202.46	6,889.00	46.35	40.82	17.80	-826.66	1,274.20	2,485.96	2,442.78	43.18	57.571	
10,700.00	9,255.00	8,302.46	6,889.00	47.98	42.69	17.80	-826.72	1,374.20	2,485.97	2,441.34	44.62	55.709	
10,800.00	9,255.00	8,402.46	6,889.00	49.66	44.61	17.80	-826.78	1,474.20	2,485.97	2,439.86	46.11	53.910	
10,900.00	9,255.00	8,502.46	6,889.00	51.40	46.57	17.80	-826.84	1,574.20	2,485.98	2,438.33	47.64	52.179	
11,000.00	9,255.00	8,602.46	6,889.00	53.17	48.55	17.80	-826.90	1,674.20	2,485.98	2,436.77	49.21	50.518	
11,100.00	9,255.00	8,702.46	6,889.00	54.99	50.57	17.80	-826.96	1,774.20	2,485.98	2,435.17	50.81	48.927	
11,200.00	9,255.00	8,802.46	6,889.00	56.84	52.60	17.80	-827.02	1,874.20	2,485.99	2,433.55	52.44	47.405	
11,300.00	9,255.00	8,902.46	6,889.00	58.72	54.66	17.80	-827.08	1,974.20	2,485.99	2,431.89	54.10	45.951	
11,400.00	9,255.00	9,002.46	6,889.00	60.64	56.74	17.80	-827.14	2,074.20	2,486.00	2,430.21	55.79	44.564	
11,500.00	9,255.00	9,102.46	6,889.00	62.58	58.84	17.80	-827.20	2,174.20	2,486.00	2,428.51	57.49	43.240	
11,600.00	9,255.00	9,202.46	6,889.00	64.54	60.95	17.80	-827.26	2,274.20	2,486.00	2,426.78	59.22	41.977	
11,700.00	9,255.00	9,302.46	6,889.00	66.53	63.07	17.80	-827.32	2,374.20	2,486.01	2,425.04	60.97	40.773	
11,800.00	9,255.00	9,402.46	6,889.00	68.54	65.21	17.80	-827.38	2,474.20	2,486.01	2,423.27	62.74	39.625	
11,900.00	9,255.00	9,502.46	6,889.00	70.56	67.36	17.80	-827.45	2,574.20	2,486.02	2,421.50	64.52	38.530	
12,000.00	9,255.00	9,602.46	6,889.00	72.60	69.52	17.80	-827.51	2,674.20	2,486.02	2,419.70	66.32	37.485	
12,100.00	9,255.00	9,702.46	6,889.00	74.66	71.68	17.80	-827.57	2,774.20	2,486.02	2,417.89	68.13	36.488	
12,200.00	9,255.00	9,802.46	6,889.00	76.74	73.86	17.80	-827.63	2,874.20	2,486.03	2,416.07	69.96	35.536	
12,300.00	9,255.00	9,902.46	6,889.00	78.82	76.04	17.80	-827.69	2,974.20	2,486.03	2,414.24	71.79	34.627	
12,400.00	9,255.00	10,002.46	6,889.00	80.92	78.24	17.80	-827.75	3,074.20	2,486.04	2,412.39	73.64	33.758	
12,500.00	9,255.00	10,102.46	6,889.00	83.03	80.43	17.80	-827.81	3,174.20	2,486.04	2,410.54	75.50	32.927	
12,600.00	9,255.00	10,202.46	6,889.00	85.15	82.64	17.80	-827.87	3,274.20	2,486.05	2,408.68	77.37	32.132	
12,700.00	9,255.00	10,302.46	6,889.00	87.28	84.85	17.80	-827.93	3,374.20	2,486.05	2,406.80	79.25	31.371	
12,800.00	9,255.00	10,402.46	6,889.00	89.41	87.06	17.80	-827.99	3,474.20	2,486.05	2,404.92	81.13	30.642	
12,900.00	9,255.00	10,502.46	6,889.00	91.56	89.28	17.80	-828.05	3,574.20	2,486.06	2,403.03	83.03	29.943	
13,000.00	9,255.00	10,602.46	6,889.00	93.71	91.51	17.80	-828.11	3,674.20	2,486.06	2,401.14	84.93	29.273	
13,100.00	9,255.00	10,702.46	6,889.00	95.88	93.73	17.80	-828.17	3,774.20	2,486.07	2,399.23	86.83	28.630	
13,200.00	9,255.00	10,802.46	6,889.00	98.04	95.97	17.80	-828.23	3,874.20	2,486.07	2,397.32	88.75	28.013	
13,300.00	9,255.00	10,902.46	6,889.00	100.22	98.20	17.80	-828.29	3,974.20	2,486.07	2,395.41	90.67	27.420	
13,400.00	9,255.00	11,002.46	6,889.00	102.40	100.44	17.81	-828.36	4,074.20	2,486.08	2,393.49	92.59	26.850	
13,500.00	9,255.00	11,102.46	6,889.00	104.58	102.68	17.81	-828.42	4,174.20	2,486.08	2,391.56	94.52	26.302	
13,600.00	9,255.00	11,202.46	6,889.00	106.77	104.93	17.81	-828.48	4,274.20	2,486.09	2,389.63	96.46	25.774	
13,700.00	9,255.00	11,302.46	6,889.00	108.97	107.17	17.81	-828.54	4,374.20	2,486.09	2,387.69	98.40	25.266	
13,800.00	9,255.00	11,402.46	6,889.00	111.17	109.42	17.81	-828.60	4,474.20	2,486.09	2,385.75	100.34	24.777	
13,900.00	9,255.00	11,502.46	6,889.00	113.38	111.68	17.81	-828.66	4,574.20	2,486.10	2,383.81	102.29	24.305	
14,000.00	9,255.00	11,602.46	6,889.00	115.58	113.93	17.81	-828.72	4,674.20	2,486.10	2,381.86	104.24	23.850	
14,100.00	9,255.00	11,702.46	6,889.00	117.80	116.19	17.81	-828.78	4,774.20	2,486.11	2,379.91	106.20	23.411	
14,200.00	9,255.00	11,802.46	6,889.00	120.01	118.45	17.81	-828.84	4,874.20	2,486.11	2,377.96	108.16	22.986	
14,300.00	9,255.00	11,902.46	6,889.00	122.23	120.71	17.81	-828.90	4,974.20	2,486.11	2,376.00	110.12	22.577	
14,400.00	9,255.00	12,002.46	6,889.00	124.46	122.97	17.81	-828.96	5,074.20	2,486.12	2,374.04	112.08	22.181	
14,500.00	9,255.00	12,102.46	6,889.00	126.68	125.23	17.81	-829.02	5,174.20	2,486.12	2,372.07	114.05	21.798	
14,600.00	9,255.00	12,202.46	6,889.00	128.91	127.50	17.81	-829.08	5,274.20	2,486.13	2,370.10	116.02	21.428	
14,700.00	9,255.00	12,302.46	6,889.00	131.14	129.77	17.81	-829.14	5,374.20	2,486.13	2,368.13	118.00	21.069	
14,800.00	9,255.00	12,402.46	6,889.00	133.38	132.03	17.81	-829.20	5,474.20	2,486.14	2,366.16	119.98	20.722	
14,900.00	9,255.00	12,502.46	6,889.00	135.61	134.30	17.81	-829.27	5,574.20	2,486.14	2,364.18	121.95	20.386	
15,000.00	9,255.00	12,602.46	6,889.00	137.85	136.58	17.81	-829.33	5,674.20	2,486.14	2,362.21	123.94	20.060	
15,100.00	9,255.00	12,702.46	6,889.00	140.09	138.85	17.81	-829.39	5,774.20	2,486.15	2,360.23	125.92	19.744	
15,200.00	9,255.00	12,802.46	6,889.00	142.34	141.12	17.81	-829.45	5,874.20	2,486.15	2,358.25	127.91	19.437	
15,300.00	9,255.00	12,902.46	6,889.00	144.58	143.40	17.81	-829.51	5,974.20	2,486.16	2,356.26	129.89	19.140	

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 #205H
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:	#205H	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		Distance		Minimum Separation		Separation Factor		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,400.00	9,255.00	13,002.46	6,889.00	146.83	145.67	17.81	-829.57	6,074.20	2,486.16	2,354.28	131.88	18.851		
15,500.00	9,255.00	13,102.46	6,889.00	149.08	147.95	17.81	-829.63	6,174.20	2,486.16	2,352.29	133.88	18.571		
15,600.00	9,255.00	13,202.46	6,889.00	151.33	150.23	17.81	-829.69	6,274.20	2,486.17	2,350.30	135.87	18.298		
15,700.00	9,255.00	13,302.46	6,889.00	153.58	152.51	17.81	-829.75	6,374.20	2,486.17	2,348.31	137.86	18.033		
15,800.00	9,255.00	13,402.46	6,889.00	155.84	154.79	17.81	-829.81	6,474.20	2,486.18	2,346.31	139.86	17.776		
15,900.00	9,255.00	13,502.46	6,889.00	158.09	157.07	17.81	-829.87	6,574.20	2,486.18	2,344.32	141.86	17.526		
16,000.00	9,255.00	13,602.46	6,889.00	160.35	159.35	17.81	-829.93	6,674.20	2,486.18	2,342.32	143.86	17.282		
16,100.00	9,255.00	13,702.46	6,889.00	162.61	161.63	17.81	-829.99	6,774.20	2,486.19	2,340.33	145.86	17.045		
16,200.00	9,255.00	13,802.46	6,889.00	164.87	163.91	17.81	-830.05	6,874.20	2,486.19	2,338.33	147.86	16.814		
16,300.00	9,255.00	13,902.46	6,889.00	167.13	166.20	17.81	-830.11	6,974.20	2,486.20	2,336.33	149.87	16.589		
16,400.00	9,255.00	14,002.46	6,889.00	169.40	168.48	17.81	-830.18	7,074.20	2,486.20	2,334.33	151.87	16.370		
16,500.00	9,255.00	14,102.46	6,889.00	171.66	170.77	17.81	-830.24	7,174.20	2,486.21	2,332.33	153.88	16.157		
16,600.00	9,255.00	14,202.46	6,889.00	173.93	173.05	17.81	-830.30	7,274.20	2,486.21	2,330.32	155.89	15.949		
16,700.00	9,255.00	14,302.46	6,889.00	176.19	175.34	17.81	-830.36	7,374.20	2,486.21	2,328.32	157.90	15.746		
16,800.00	9,255.00	14,402.46	6,889.00	178.46	177.62	17.82	-830.42	7,474.20	2,486.22	2,326.31	159.91	15.548		
16,900.00	9,255.00	14,502.46	6,889.00	180.73	179.91	17.82	-830.48	7,574.20	2,486.22	2,324.30	161.92	15.355		
17,000.00	9,255.00	14,602.46	6,889.00	183.00	182.20	17.82	-830.54	7,674.20	2,486.23	2,322.30	163.93	15.166		
17,100.00	9,255.00	14,702.46	6,889.00	185.27	184.49	17.82	-830.60	7,774.20	2,486.23	2,320.29	165.94	14.983		
17,200.00	9,255.00	14,802.46	6,889.00	187.54	186.78	17.82	-830.66	7,874.20	2,486.23	2,318.28	167.96	14.803		
17,300.00	9,255.00	14,902.46	6,889.00	189.81	189.07	17.82	-830.72	7,974.20	2,486.24	2,316.27	169.97	14.627		
17,400.00	9,255.00	15,002.46	6,889.00	192.09	191.36	17.82	-830.78	8,074.20	2,486.24	2,314.26	171.99	14.456		
17,500.00	9,255.00	15,102.46	6,889.00	194.36	193.65	17.82	-830.84	8,174.20	2,486.25	2,312.24	174.00	14.289		
17,600.00	9,255.00	15,202.46	6,889.00	196.64	195.94	17.82	-830.90	8,274.20	2,486.25	2,310.23	176.02	14.125		
17,700.00	9,255.00	15,302.46	6,889.00	198.91	198.23	17.82	-830.96	8,374.20	2,486.25	2,308.22	178.04	13.965		
17,800.00	9,255.00	15,402.46	6,889.00	201.19	200.52	17.82	-831.02	8,474.20	2,486.26	2,306.20	180.06	13.808		
17,900.00	9,255.00	15,502.46	6,889.00	203.47	202.81	17.82	-831.08	8,574.20	2,486.26	2,304.19	182.08	13.655		
18,000.00	9,255.00	15,602.46	6,889.00	205.74	205.10	17.82	-831.15	8,674.20	2,486.27	2,302.17	184.10	13.505		
18,100.00	9,255.00	15,702.46	6,889.00	208.02	207.40	17.82	-831.21	8,774.20	2,486.27	2,300.15	186.12	13.359		
18,200.00	9,255.00	15,802.46	6,889.00	210.30	209.69	17.82	-831.27	8,874.20	2,486.27	2,298.13	188.14	13.215		
18,300.00	9,255.00	15,902.46	6,889.00	212.58	211.98	17.82	-831.33	8,974.20	2,486.28	2,296.12	190.16	13.075		
18,400.00	9,255.00	16,002.46	6,889.00	214.86	214.28	17.82	-831.39	9,074.20	2,486.28	2,294.10	192.19	12.937		
18,500.00	9,255.00	16,102.46	6,889.00	217.14	216.57	17.82	-831.45	9,174.20	2,486.29	2,292.08	194.21	12.802		
18,600.00	9,255.00	16,202.46	6,889.00	219.43	218.87	17.82	-831.51	9,274.20	2,486.29	2,290.06	196.23	12.670		
18,700.00	9,255.00	16,302.46	6,889.00	221.71	221.16	17.82	-831.57	9,374.20	2,486.30	2,288.04	198.26	12.541		
18,800.00	9,255.00	16,402.46	6,889.00	223.99	223.45	17.82	-831.63	9,474.20	2,486.30	2,286.02	200.28	12.414		
18,900.00	9,255.00	16,502.46	6,889.00	226.28	225.75	17.82	-831.69	9,574.20	2,486.30	2,283.99	202.31	12.290		
19,000.00	9,255.00	16,602.46	6,889.00	228.56	228.05	17.82	-831.75	9,674.20	2,486.31	2,281.97	204.34	12.168		
19,100.00	9,255.00	16,702.46	6,889.00	230.84	230.34	17.82	-831.81	9,774.20	2,486.31	2,279.95	206.36	12.048		
19,200.00	9,255.00	16,802.46	6,889.00	233.13	232.64	17.82	-831.87	9,874.20	2,486.32	2,277.93	208.39	11.931		
19,300.00	9,255.00	16,902.46	6,889.00	235.41	234.93	17.82	-831.93	9,974.20	2,486.32	2,275.90	210.42	11.816		
19,400.00	9,255.00	17,002.46	6,889.00	236.87	237.21	17.82	-831.99	10,074.20	2,486.32	2,274.33	212.00	11.728		
19,407.34	9,255.00	17,009.80	6,889.00	236.98	237.32	17.82	-832.00	10,081.54	2,486.32	2,274.24	212.08	11.723 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 #205H
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:	#205H	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		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	3.00	3.00	0.00	0.00	-169.53	-590.00	-109.00	599.98	599.72	0.27	2,246.613	
100.00	100.00	103.00	103.00	0.13	0.14	-169.53	-590.00	-109.00	599.98	599.00	0.98	609.737	
200.00	200.00	203.00	203.00	0.49	0.50	-169.53	-590.00	-109.00	599.98	598.28	1.70	352.735	
300.00	300.00	303.00	303.00	0.85	0.86	-169.53	-590.00	-109.00	599.98	597.57	2.42	248.144	
400.00	400.00	403.00	403.00	1.20	1.21	-169.53	-590.00	-109.00	599.98	596.85	3.13	191.393	
500.00	500.00	503.00	503.00	1.56	1.57	-169.53	-590.00	-109.00	599.98	596.13	3.85	155.768	
600.00	600.00	603.00	603.00	1.92	1.93	-169.53	-590.00	-109.00	599.98	595.42	4.57	131.324	
700.00	700.00	703.00	703.00	2.28	2.29	-169.53	-590.00	-109.00	599.98	594.70	5.29	113.512	
800.00	800.00	803.00	803.00	2.64	2.65	-169.53	-590.00	-109.00	599.98	594.00	6.00	100.136	
900.00	899.98	902.98	902.98	2.99	3.01	-116.68	-590.00	-109.00	600.77	594.77	6.71	89.857	
1,000.00	999.84	1,002.84	1,002.84	3.35	3.36	-117.08	-590.00	-109.00	603.14	596.42	7.43	81.737	
1,100.00	1,099.45	1,102.45	1,102.45	3.71	3.72	-117.74	-590.00	-109.00	607.16	604.75	8.15	75.211	
1,200.00	1,198.72	1,201.72	1,201.72	4.07	4.08	-118.66	-590.00	-109.00	612.90	610.43	8.87	69.795	
1,300.00	1,297.86	1,300.86	1,300.86	4.44	4.43	-119.71	-590.00	-109.00	619.30	616.31	9.60	65.195	
1,400.00	1,397.01	1,400.01	1,400.01	4.82	4.79	-120.74	-590.00	-109.00	625.91	622.38	10.34	61.213	
1,500.00	1,496.15	1,500.85	1,499.15	5.20	5.15	-121.75	-590.00	-109.00	632.72	628.65	11.07	57.768	
1,600.00	1,595.30	1,601.70	1,598.30	5.58	5.51	-122.74	-590.00	-109.00	639.72	635.10	11.81	54.763	
1,700.00	1,694.44	1,702.56	1,697.44	5.96	5.87	-123.70	-590.00	-109.00	646.91	641.73	12.55	52.124	
1,800.00	1,793.59	1,803.41	1,796.59	6.35	6.23	-124.65	-590.00	-109.00	654.28	648.54	13.29	49.789	
1,900.00	1,892.74	1,904.27	1,895.74	6.74	6.60	-125.57	-590.00	-109.00	661.83	655.55	14.00	47.837	
2,000.00	1,991.88	1,994.88	1,994.88	7.13	6.92	-126.48	-590.00	-109.00	669.55	660.72	14.83	45.561	
2,100.00	2,091.03	2,121.03	2,120.99	7.52	7.37	-127.53	-587.59	-109.86	675.55	661.83	15.65	43.302	
2,200.00	2,190.17	2,249.38	2,249.07	7.91	7.83	-128.42	-579.78	-112.64	677.47	659.09	16.42	41.133	
2,300.00	2,289.32	2,367.65	2,366.67	8.30	8.26	-129.12	-568.02	-116.83	675.51	655.58	17.16	39.201	
2,400.00	2,388.46	2,467.39	2,465.74	8.69	8.61	-129.68	-557.16	-120.70	672.74	652.13	17.90	37.430	
2,500.00	2,487.61	2,567.13	2,564.81	9.08	8.97	-130.25	-546.29	-124.56	670.03	648.76	18.64	35.802	
2,600.00	2,586.75	2,666.87	2,663.88	9.48	9.34	-130.82	-535.43	-128.43	667.40	645.44	19.38	34.301	
2,700.00	2,685.90	2,766.61	2,762.95	9.87	9.70	-131.40	-524.57	-132.30	664.83	642.20	20.12	32.914	
2,800.00	2,785.04	2,866.35	2,862.02	10.27	10.07	-131.98	-513.71	-136.17	662.32	639.03	20.86	31.628	
2,900.00	2,884.19	2,966.09	2,961.09	10.66	10.44	-132.57	-502.85	-140.04	659.89	635.92	21.61	30.434	
3,000.00	2,983.34	3,065.83	3,060.17	11.06	10.81	-133.16	-491.99	-143.90	657.53	632.89	22.35	29.322	
3,100.00	3,082.48	3,165.57	3,159.24	11.45	11.18	-133.76	-481.13	-147.77	655.24	629.93	23.09	28.284	
3,200.00	3,181.63	3,265.31	3,258.31	11.85	11.55	-134.36	-470.27	-151.64	653.02	627.04	23.83	27.315	
3,300.00	3,280.77	3,365.05	3,357.38	12.24	11.93	-134.96	-459.41	-155.51	650.87	622.87	24.56	26.357	
3,400.00	3,380.14	3,464.83	3,456.49	12.63	12.30	-135.40	-448.54	-159.38	647.44	616.26	25.29	25.366	
3,500.00	3,479.84	3,564.60	3,555.60	13.00	12.68	-135.60	-437.68	-163.25	641.55	607.18	26.01	24.344	
3,600.00	3,579.75	3,664.24	3,654.57	13.36	13.05	-135.54	-426.83	-167.11	633.19	595.74	26.72	23.297	
3,700.00	3,679.74	3,763.65	3,753.31	13.70	13.43	-171.72	-416.01	-170.96	622.46	583.71	27.42	22.286	
3,800.00	3,779.74	3,862.98	3,851.97	14.03	13.80	-171.94	-405.19	-174.82	611.13	571.68	28.13	21.325	
3,900.00	3,879.74	3,962.31	3,950.64	14.37	14.18	-172.16	-394.37	-178.67	599.80	559.66	28.83	20.410	
4,000.00	3,979.74	4,061.64	4,049.30	14.71	14.55	-172.39	-383.56	-182.52	588.49	547.64	29.54	19.538	
4,100.00	4,079.74	4,160.97	4,147.97	15.04	14.93	-172.62	-372.74	-186.37	577.18	535.64	30.25	18.708	
4,200.00	4,179.74	4,260.30	4,246.63	15.38	15.31	-172.87	-361.93	-190.22	565.89	523.65	30.96	17.915	
4,300.00	4,279.74	4,359.63	4,345.29	15.72	15.69	-173.13	-351.11	-194.08	554.61	511.67	31.67	17.157	
4,400.00	4,379.74	4,458.96	4,443.96	16.07	16.06	-173.40	-340.29	-197.93	543.33	499.69	32.38	16.433	
4,500.00	4,479.74	4,558.29	4,542.62	16.41	16.44	-173.68	-329.48	-201.78	532.07	487.74	33.09	15.739	
4,600.00	4,579.74	4,657.62	4,641.28	16.75	16.82	-173.97	-318.66	-205.63	520.83	475.79	33.80	15.075	
4,700.00	4,679.74	4,756.95	4,739.95	17.09	17.20	-174.27	-307.85	-209.48	509.59	463.86	34.52	14.439	
4,800.00	4,779.74	4,856.28	4,838.61	17.44	17.58	-174.59	-297.03	-213.34	498.37	451.94	35.23	13.828	
4,900.00	4,879.74	4,955.60	4,937.28	17.78	17.96	-174.93	-286.21	-217.19	487.17	440.04	35.95	13.242	
5,000.00	4,979.74	5,054.93	5,035.94	18.13	18.34	-175.28	-275.40	-221.04	475.99	428.16	36.66	12.679	
5,100.00	5,079.74	5,154.26	5,134.60	18.47	18.72	-175.64	-264.58	-224.89	464.82				

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 #205H
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:	#205H	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-MVD+HDGM													0.00 usft
Reference													Offset Well Error: 0.00 usft
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
5,200.00	5,179.74	5,253.59	5,233.27	18.82	19.10	176.02	-253.77	-228.74	453.67	416.30	37.38	12.138	
5,300.00	5,279.74	5,352.92	5,331.93	19.17	19.48	176.43	-242.95	-232.60	442.55	404.45	38.09	11.617	
5,400.00	5,379.74	5,452.25	5,430.60	19.51	19.86	176.85	-232.13	-236.45	431.44	392.63	38.81	11.116	
5,500.00	5,479.74	5,551.58	5,529.26	19.86	20.24	177.30	-221.32	-240.30	420.36	380.83	39.53	10.634	
5,600.00	5,579.74	5,650.91	5,627.92	20.21	20.62	177.77	-210.50	-244.15	409.31	369.06	40.25	10.169	
5,700.00	5,679.74	5,750.24	5,726.59	20.56	21.00	178.26	-199.69	-248.00	398.29	357.32	40.97	9.721	
5,800.00	5,779.74	5,849.57	5,825.25	20.91	21.39	178.79	-188.87	-251.86	387.30	345.60	41.69	9.289	
5,900.00	5,879.74	5,942.77	5,917.87	21.25	21.74	179.29	-179.12	-255.33	376.79	334.37	42.42	8.883	
6,000.00	5,979.74	6,031.51	6,006.30	21.60	22.07	179.66	-172.18	-257.80	368.94	325.81	43.12	8.555	
6,100.00	6,079.74	6,120.62	6,095.29	21.95	22.40	179.90	-167.80	-259.36	364.02	320.22	43.80	8.312	
6,200.00	6,179.74	6,209.94	6,184.58	22.30	22.71	180.00	-166.04	-259.99	362.04	317.61	44.43	8.148	
6,240.29	6,220.03	6,248.38	6,223.03	22.44	22.84	-180.00	-166.00	-260.00	362.00	317.30	44.70	8.098	
6,300.00	6,279.74	6,308.10	6,282.74	22.65	23.05	-180.00	-166.00	-260.00	362.00	316.88	45.12	8.023	
6,400.00	6,379.74	6,413.71	6,388.16	23.00	23.40	179.28	-165.41	-255.48	361.47	315.63	45.84	7.885	
6,500.00	6,479.74	6,517.34	6,489.23	23.35	23.72	175.76	-162.50	-233.43	359.54	313.06	46.49	7.734	
6,561.14	6,540.88	6,575.72	6,543.88	23.57	23.88	172.50	-159.83	-213.15	358.90	312.08	46.82	7.665 CC, ES	
6,600.00	6,579.74	6,610.39	6,575.26	23.70	23.98	170.15	-157.91	-198.54	359.28	312.29	46.99	7.645 SF	
6,700.00	6,679.74	6,690.37	6,643.83	24.05	24.18	163.67	-152.55	-157.85	365.29	318.13	47.16	7.746	
6,800.00	6,779.74	6,757.37	6,696.42	24.41	24.32	157.34	-147.14	-116.75	381.73	335.08	46.65	8.183	
6,900.00	6,879.74	6,812.89	6,736.09	24.76	24.42	151.74	-142.08	-78.27	410.88	365.54	45.35	9.061	
7,000.00	6,979.74	6,858.83	6,765.95	25.11	24.51	147.03	-137.52	-43.67	452.80	409.40	43.41	10.432	
7,100.00	7,079.74	6,900.00	6,790.26	25.46	24.62	142.87	-133.18	-10.74	506.00	464.68	41.32	12.245	
7,200.00	7,179.74	6,929.00	6,805.92	25.81	24.75	140.01	-130.00	13.45	568.37	529.32	39.05	14.554	
7,300.00	7,279.74	6,950.00	6,816.48	26.17	24.86	138.00	-127.63	31.45	638.03	601.14	36.88	17.299	
7,400.00	7,379.74	6,979.04	6,829.97	26.52	25.02	135.30	-124.27	56.94	713.15	677.75	35.40	20.147	
7,500.00	7,479.74	7,000.00	6,838.89	26.87	25.14	133.43	-121.80	75.74	792.63	758.61	34.02	23.298	
7,600.00	7,579.74	7,016.00	6,845.23	27.22	25.24	132.04	-119.88	90.31	875.45	842.63	32.82	26.670	
7,700.00	7,679.74	7,031.00	6,850.80	27.58	25.33	130.78	-118.06	104.12	960.91	929.03	31.88	30.139	
7,800.00	7,779.74	7,050.00	6,857.33	27.93	25.45	129.23	-115.73	121.81	1,048.50	1,017.24	31.26	33.541	
7,900.00	7,879.74	7,050.00	6,857.33	28.28	25.45	129.23	-115.73	121.81	1,137.73	1,107.33	30.40	37.422	
8,000.00	7,979.74	7,066.33	6,862.46	28.63	25.57	127.95	-113.71	137.18	1,228.29	1,198.24	30.06	40.867	
8,100.00	8,079.74	7,075.69	6,865.20	28.99	25.63	127.23	-112.54	146.04	1,320.03	1,290.34	29.69	44.455	
8,200.00	8,179.74	7,100.00	6,871.64	29.34	25.81	125.44	-109.48	169.29	1,413.01	1,383.32	29.69	47.597	
8,300.00	8,279.74	7,100.00	6,871.64	29.70	25.81	125.44	-109.48	169.29	1,506.26	1,476.91	29.35	51.315	
8,400.00	8,379.74	7,100.00	6,871.64	30.05	25.81	125.44	-109.48	169.29	1,600.33	1,571.21	29.11	54.969	
8,500.00	8,479.74	7,100.00	6,871.64	30.40	25.81	125.44	-109.48	169.29	1,695.07	1,666.12	28.95	58.550	
8,600.00	8,579.74	7,100.00	6,871.64	30.76	25.81	125.44	-109.48	169.29	1,790.39	1,761.53	28.85	62.053	
8,700.00	8,679.74	7,100.00	6,871.64	31.11	25.81	125.44	-109.48	169.29	1,886.19	1,857.38	28.81	65.474	
8,800.00	8,779.27	7,122.74	6,876.75	31.44	25.98	10.39	-106.59	191.25	1,979.29	1,950.32	28.97	68.331	
8,900.00	8,875.84	7,150.00	6,881.72	31.73	26.19	6.93	-103.09	217.83	2,066.53	2,037.49	29.04	71.164	
9,000.00	8,966.53	7,150.00	6,881.72	32.01	26.19	5.56	-103.09	217.83	2,144.73	2,115.98	28.75	74.601	
9,100.00	9,048.57	7,150.00	6,881.72	32.28	26.19	4.71	-103.09	217.83	2,213.33	2,184.89	28.44	77.826	
9,200.00	9,119.47	7,171.93	6,884.79	32.57	26.38	3.87	-100.26	239.35	2,270.68	2,242.37	28.31	80.218	
9,300.00	9,177.08	7,200.00	6,887.50	32.91	26.61	3.20	-96.61	267.05	2,316.05	2,287.82	28.23	82.051	
9,400.00	9,219.65	7,200.00	6,887.50	33.33	26.61	3.02	-96.61	267.05	2,348.17	2,320.13	28.04	83.741	
9,500.00	9,245.89	7,222.06	6,888.67	33.84	26.81	2.69	-93.74	288.89	2,366.91	2,338.83	28.08	84.287	
9,600.00	9,254.99	7,241.40	6,889.00	34.44	26.98	2.47	-91.21	308.06	2,371.89	2,343.67	28.23	84.032	
9,700.00	9,255.00	7,321.86	6,889.00	35.15	27.77	1.76	-81.83	387.97	2,370.28	2,341.61	28.67	82.676	
9,800.00	9,255.00	7,414.87	6,889.00	36.00	28.78	1.09	-73.79	480.63	2,369.46	2,340.23	29.24	81.048	
9,900.00	9,255.00	7,511.02	6,889.00	36.97	29.95	0.57	-68.64	576.64	2,369.12	2,339.23	29.89	79.270	
10,000.00	9,255.00	7,609.40	6,889.00	38.06	31.26	0.23	-66.71	674.99	2,369.02	2,338.41	30.60	77.408	
10,100.00	9,255.00	7,709.10	6,889.00	39.24	32.69	0.05	-66.75	774.69	2,369.00	2,337.62	31.38	75.494	

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 #205H
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:	#205H	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		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	
10,176.23	9,255.00	7,785.30	6,889.00	40.20	33.84	0.00	-66.78	850.89	2,369.00	2,336.99	32.01	74.017	
10,200.00	9,255.00	7,809.07	6,889.00	40.50	34.21	0.00	-66.79	874.66	2,369.00	2,336.80	32.20	73.567	
10,300.00	9,255.00	7,909.07	6,889.00	41.85	35.82	0.00	-66.84	974.66	2,369.00	2,335.93	33.07	71.630	
10,400.00	9,255.00	8,009.07	6,889.00	43.28	37.50	0.00	-66.88	1,074.66	2,369.00	2,335.01	33.99	69.689	
10,500.00	9,255.00	8,109.07	6,889.00	44.78	39.24	0.00	-66.93	1,174.66	2,369.00	2,334.04	34.96	67.763	
10,600.00	9,255.00	8,209.07	6,889.00	46.35	41.04	0.00	-66.98	1,274.66	2,369.00	2,333.03	35.97	65.863	
10,700.00	9,255.00	8,309.07	6,889.00	47.98	42.89	0.00	-67.02	1,374.66	2,369.00	2,331.98	37.02	64.000	
10,800.00	9,255.00	8,409.07	6,889.00	49.66	44.78	0.00	-67.07	1,474.66	2,369.00	2,330.90	38.10	62.182	
10,900.00	9,255.00	8,509.07	6,889.00	51.40	46.71	0.00	-67.11	1,574.66	2,369.00	2,329.79	39.21	60.415	
11,000.00	9,255.00	8,609.07	6,889.00	53.17	48.67	0.00	-67.16	1,674.66	2,369.00	2,328.64	40.36	58.703	
11,100.00	9,255.00	8,709.07	6,889.00	54.99	50.66	0.00	-67.20	1,774.66	2,369.00	2,327.47	41.53	57.047	
11,200.00	9,255.00	8,809.07	6,889.00	56.84	52.68	0.00	-67.25	1,874.66	2,369.00	2,326.28	42.72	55.450	
11,300.00	9,255.00	8,909.07	6,889.00	58.72	54.72	0.00	-67.30	1,974.66	2,369.00	2,325.06	43.94	53.912	
11,400.00	9,255.00	9,009.07	6,889.00	60.64	56.78	0.00	-67.34	2,074.66	2,369.00	2,323.82	45.18	52.432	
11,500.00	9,255.00	9,109.07	6,889.00	62.58	58.86	0.00	-67.39	2,174.66	2,369.00	2,322.56	46.44	51.010	
11,600.00	9,255.00	9,209.07	6,889.00	64.54	60.95	0.00	-67.43	2,274.66	2,369.00	2,321.28	47.72	49.645	
11,700.00	9,255.00	9,309.07	6,889.00	66.53	63.06	0.00	-67.48	2,374.66	2,369.00	2,319.99	49.01	48.334	
11,800.00	9,255.00	9,409.07	6,889.00	68.54	65.19	0.00	-67.52	2,474.66	2,369.00	2,318.68	50.32	47.076	
11,900.00	9,255.00	9,509.07	6,889.00	70.56	67.32	0.00	-67.57	2,574.66	2,369.00	2,317.35	51.65	45.870	
12,000.00	9,255.00	9,609.07	6,889.00	72.60	69.47	0.00	-67.62	2,674.66	2,369.00	2,316.02	52.98	44.713	
12,100.00	9,255.00	9,709.07	6,889.00	74.66	71.63	0.00	-67.66	2,774.66	2,369.00	2,314.67	54.33	43.603	
12,200.00	9,255.00	9,809.07	6,889.00	76.74	73.79	0.00	-67.71	2,874.66	2,369.00	2,313.31	55.69	42.538	
12,300.00	9,255.00	9,909.07	6,889.00	78.82	75.97	0.00	-67.75	2,974.66	2,369.00	2,311.94	57.06	41.516	
12,400.00	9,255.00	10,009.07	6,889.00	80.92	78.15	0.00	-67.80	3,074.66	2,369.00	2,310.56	58.44	40.536	
12,500.00	9,255.00	10,109.07	6,889.00	83.03	80.34	0.00	-67.84	3,174.66	2,369.00	2,309.17	59.83	39.594	
12,600.00	9,255.00	10,209.07	6,889.00	85.15	82.53	0.00	-67.89	3,274.66	2,369.00	2,307.77	61.23	38.690	
12,700.00	9,255.00	10,309.07	6,889.00	87.28	84.73	0.00	-67.94	3,374.66	2,369.00	2,306.36	62.64	37.822	
12,800.00	9,255.00	10,409.07	6,889.00	89.41	86.94	0.00	-67.98	3,474.66	2,369.00	2,304.95	64.05	36.987	
12,900.00	9,255.00	10,509.07	6,889.00	91.56	89.15	0.00	-68.03	3,574.66	2,369.00	2,303.53	65.47	36.184	
13,000.00	9,255.00	10,609.07	6,889.00	93.71	91.37	0.00	-68.07	3,674.66	2,369.00	2,302.10	66.90	35.413	
13,100.00	9,255.00	10,709.07	6,889.00	95.88	93.59	0.00	-68.12	3,774.66	2,369.00	2,300.67	68.33	34.670	
13,200.00	9,255.00	10,809.07	6,889.00	98.04	95.82	0.00	-68.16	3,874.66	2,369.00	2,299.23	69.77	33.955	
13,300.00	9,255.00	10,909.07	6,889.00	100.22	98.05	0.00	-68.21	3,974.66	2,369.00	2,297.79	71.21	33.266	
13,400.00	9,255.00	11,009.07	6,889.00	102.40	100.28	0.00	-68.26	4,074.66	2,369.00	2,296.34	72.66	32.603	
13,500.00	9,255.00	11,109.07	6,889.00	104.58	102.52	0.00	-68.30	4,174.66	2,369.00	2,294.88	74.12	31.963	
13,600.00	9,255.00	11,209.07	6,889.00	106.77	104.76	0.00	-68.35	4,274.66	2,369.00	2,293.42	75.58	31.346	
13,700.00	9,255.00	11,309.07	6,889.00	108.97	107.00	0.00	-68.39	4,374.66	2,369.00	2,291.96	77.04	30.751	
13,800.00	9,255.00	11,409.07	6,889.00	111.17	109.24	0.00	-68.44	4,474.66	2,369.00	2,290.49	78.51	30.176	
13,900.00	9,255.00	11,509.07	6,889.00	113.38	111.49	0.00	-68.48	4,574.66	2,369.00	2,289.02	79.98	29.621	
14,000.00	9,255.00	11,609.07	6,889.00	115.58	113.74	0.00	-68.53	4,674.66	2,369.00	2,287.55	81.45	29.085	
14,100.00	9,255.00	11,709.07	6,889.00	117.80	115.99	0.00	-68.58	4,774.66	2,369.00	2,286.07	82.93	28.566	
14,200.00	9,255.00	11,809.07	6,889.00	120.01	118.25	0.00	-68.62	4,874.66	2,369.00	2,284.59	84.41	28.065	
14,300.00	9,255.00	11,909.07	6,889.00	122.23	120.51	0.00	-68.67	4,974.66	2,369.00	2,283.10	85.90	27.580	
14,400.00	9,255.00	12,009.07	6,889.00	124.46	122.76	0.00	-68.71	5,074.66	2,369.00	2,281.62	87.38	27.110	
14,500.00	9,255.00	12,109.07	6,889.00	126.68	125.02	0.00	-68.76	5,174.66	2,369.00	2,280.13	88.87	26.656	
14,600.00	9,255.00	12,209.07	6,889.00	128.91	127.29	0.00	-68.80	5,274.66	2,369.00	2,278.63	90.37	26.216	
14,700.00	9,255.00	12,309.07	6,889.00	131.14	129.55	0.00	-68.85	5,374.66	2,369.00	2,277.14	91.86	25.789	
14,800.00	9,255.00	12,409.07	6,889.00	133.38	131.82	0.00	-68.89	5,474.66	2,369.00	2,275.64	93.36	25.375	
14,900.00	9,255.00	12,509.07	6,889.00	135.61	134.08	0.00	-68.94	5,574.66	2,369.00	2,274.14	94.86	24.974	
15,000.00	9,255.00	12,609.07	6,889.00	137.85	136.35	0.00	-68.99	5,674.66	2,369.00	2,272.64	96.36	24.584	
15,100.00	9,255.00	12,709.07	6,889.00	140.09	138.62	0.00	-69.03	5,774.66	2,369.00	2,271.13	97.87	24.207	
15,200.00	9,255.00	12,809.07	6,889.00	142.34	140.89	0.00	-69.08	5,874.66	2,369.00	2,269.63	99.37	23.840	

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 #205H
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:	#205H	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		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
15,300.00	9,255.00	12,909.07	6,889.00	144.58	143.16	0.00	-69.12	5,974.66	2,369.00	2,268.12	100.88	23.483
15,400.00	9,255.00	13,009.07	6,889.00	146.83	145.44	0.00	-69.17	6,074.66	2,369.00	2,266.61	102.39	23.137
15,500.00	9,255.00	13,109.07	6,889.00	149.08	147.71	0.00	-69.21	6,174.66	2,369.00	2,265.10	103.90	22.800
15,600.00	9,255.00	13,209.07	6,889.00	151.33	149.99	0.00	-69.26	6,274.66	2,369.00	2,263.58	105.42	22.473
15,700.00	9,255.00	13,309.07	6,889.00	153.58	152.26	0.00	-69.31	6,374.66	2,369.00	2,262.07	106.93	22.154
15,800.00	9,255.00	13,409.07	6,889.00	155.84	154.54	0.00	-69.35	6,474.66	2,369.00	2,260.55	108.45	21.845
15,900.00	9,255.00	13,509.07	6,889.00	158.09	156.82	0.00	-69.40	6,574.66	2,369.00	2,259.03	109.97	21.543
16,000.00	9,255.00	13,609.07	6,889.00	160.35	159.10	0.00	-69.44	6,674.66	2,369.00	2,257.51	111.49	21.249
16,100.00	9,255.00	13,709.07	6,889.00	162.61	161.38	0.00	-69.49	6,774.66	2,369.00	2,255.99	113.01	20.963
16,200.00	9,255.00	13,809.07	6,889.00	164.87	163.66	0.00	-69.53	6,874.66	2,369.00	2,254.47	114.53	20.685
16,300.00	9,255.00	13,909.07	6,889.00	167.13	165.94	0.00	-69.58	6,974.66	2,369.00	2,252.95	116.05	20.413
16,400.00	9,255.00	14,009.07	6,889.00	169.40	168.22	0.00	-69.63	7,074.66	2,369.00	2,251.42	117.58	20.149
16,500.00	9,255.00	14,109.07	6,889.00	171.66	170.51	0.00	-69.67	7,174.66	2,369.00	2,249.90	119.10	19.890
16,600.00	9,255.00	14,209.07	6,889.00	173.93	172.79	0.00	-69.72	7,274.66	2,369.00	2,248.37	120.63	19.639
16,700.00	9,255.00	14,309.07	6,889.00	176.19	175.07	0.00	-69.76	7,374.66	2,369.00	2,246.84	122.16	19.393
16,800.00	9,255.00	14,409.07	6,889.00	178.46	177.36	0.00	-69.81	7,474.66	2,369.00	2,245.31	123.69	19.153
16,900.00	9,255.00	14,509.07	6,889.00	180.73	179.64	0.00	-69.85	7,574.66	2,369.00	2,243.78	125.22	18.919
17,000.00	9,255.00	14,609.07	6,889.00	183.00	181.93	0.00	-69.90	7,674.66	2,369.00	2,242.25	126.75	18.691
17,100.00	9,255.00	14,709.07	6,889.00	185.27	184.22	0.00	-69.95	7,774.66	2,369.00	2,240.72	128.28	18.468
17,200.00	9,255.00	14,809.07	6,889.00	187.54	186.50	0.00	-69.99	7,874.66	2,369.00	2,239.19	129.81	18.249
17,300.00	9,255.00	14,909.07	6,889.00	189.81	188.79	0.00	-70.04	7,974.66	2,369.00	2,237.65	131.35	18.036
17,400.00	9,255.00	15,009.07	6,889.00	192.09	191.08	0.00	-70.08	8,074.66	2,369.00	2,236.12	132.88	17.828
17,500.00	9,255.00	15,109.07	6,889.00	194.36	193.37	0.00	-70.13	8,174.66	2,369.00	2,234.58	134.42	17.624
17,600.00	9,255.00	15,209.07	6,889.00	196.64	195.66	0.00	-70.17	8,274.66	2,369.00	2,233.05	135.95	17.425
17,700.00	9,255.00	15,309.07	6,889.00	198.91	197.95	0.00	-70.22	8,374.66	2,369.00	2,231.51	137.49	17.231
17,800.00	9,255.00	15,409.07	6,889.00	201.19	200.24	0.00	-70.27	8,474.66	2,369.00	2,229.97	139.03	17.040
17,900.00	9,255.00	15,509.07	6,889.00	203.47	202.53	0.00	-70.31	8,574.66	2,369.00	2,228.44	140.56	16.854
18,000.00	9,255.00	15,609.07	6,889.00	205.74	204.82	0.00	-70.36	8,674.66	2,369.00	2,226.90	142.10	16.671
18,100.00	9,255.00	15,709.07	6,889.00	208.02	207.11	0.00	-70.40	8,774.66	2,369.00	2,225.36	143.64	16.492
18,200.00	9,255.00	15,809.07	6,889.00	210.30	209.40	0.00	-70.45	8,874.66	2,369.00	2,223.82	145.18	16.317
18,300.00	9,255.00	15,909.07	6,889.00	212.58	211.69	0.00	-70.49	8,974.66	2,369.00	2,222.28	146.72	16.146
18,400.00	9,255.00	16,009.07	6,889.00	214.86	213.99	0.00	-70.54	9,074.66	2,369.00	2,220.73	148.27	15.978
18,500.00	9,255.00	16,109.07	6,889.00	217.14	216.28	0.00	-70.59	9,174.66	2,369.00	2,219.19	149.81	15.814
18,600.00	9,255.00	16,209.07	6,889.00	219.43	218.57	0.00	-70.63	9,274.66	2,369.00	2,217.65	151.35	15.652
18,700.00	9,255.00	16,309.07	6,889.00	221.71	220.87	0.00	-70.68	9,374.66	2,369.00	2,216.11	152.89	15.494
18,800.00	9,255.00	16,409.07	6,889.00	223.99	223.16	0.00	-70.72	9,474.66	2,369.00	2,214.56	154.44	15.340
18,900.00	9,255.00	16,509.07	6,889.00	226.28	225.45	0.00	-70.77	9,574.66	2,369.00	2,213.02	155.98	15.188
19,000.00	9,255.00	16,609.07	6,889.00	228.56	227.75	0.00	-70.81	9,674.66	2,369.00	2,211.47	157.53	15.039
19,100.00	9,255.00	16,709.07	6,889.00	230.84	230.04	0.00	-70.86	9,774.66	2,369.00	2,209.93	159.07	14.893
19,200.00	9,255.00	16,809.07	6,889.00	233.13	232.34	0.00	-70.91	9,874.66	2,369.00	2,208.38	160.62	14.749
19,300.00	9,255.00	16,909.07	6,889.00	235.41	234.63	0.00	-70.95	9,974.66	2,369.00	2,206.84	162.16	14.609
19,400.00	9,255.00	17,009.07	6,889.00	236.87	236.93	0.00	-71.00	10,074.66	2,369.00	2,205.29	163.71	14.471
19,407.34	9,255.00	17,016.41	6,889.00	236.98	237.10	0.00	-71.00	10,082.00	2,369.00	2,205.59	163.41	14.497

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #205H
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:	#205H	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							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	N-S (usft)	E-W (usft)	(usft)	(usft)	(usft)		
0.00	0.00	2.00	2.00	0.00	0.00	-172.37	-590.00	-79.00	595.27				
100.00	100.00	102.00	102.00	0.13	0.14	-172.37	-590.00	-79.00	595.27	595.00	0.26	2,259.270	
200.00	200.00	202.00	202.00	0.49	0.49	-172.37	-590.00	-79.00	595.27	594.29	0.98	607.154	
300.00	300.00	302.00	302.00	0.85	0.85	-172.37	-590.00	-79.00	595.27	593.57	1.70	350.700	
400.00	400.00	402.00	402.00	1.20	1.21	-172.37	-590.00	-79.00	595.27	592.85	2.41	246.558	
500.00	500.00	502.00	502.00	1.56	1.57	-172.37	-590.00	-79.00	595.27	592.13	3.13	190.105	
600.00	600.00	602.00	602.00	1.92	1.93	-172.37	-590.00	-79.00	595.27	591.42	3.85	154.687	
700.00	700.00	702.00	702.00	2.28	2.29	-172.37	-590.00	-79.00	595.27	590.70	4.57	130.394	
800.00	800.00	802.00	802.00	2.64	2.64	-172.37	-590.00	-79.00	595.27	589.98	5.28	112.695 CC, ES	
900.00	899.98	901.98	901.98	2.99	3.00	-119.52	-590.00	-79.00	596.12	590.13	6.00	99.421	
1,000.00	999.84	1,001.84	1,001.84	3.35	3.36	-119.91	-590.00	-79.00	598.72	592.01	6.71	89.245	
1,100.00	1,099.45	1,101.45	1,101.45	3.71	3.72	-120.55	-590.00	-79.00	603.12	595.70	7.42	81.232	
1,200.00	1,198.72	1,200.72	1,200.72	4.07	4.07	-121.44	-590.00	-79.00	609.37	601.23	8.15	74.811	
1,300.00	1,297.86	1,300.14	1,299.86	4.44	4.43	-122.47	-590.00	-79.00	616.32	607.45	8.87	69.485	
1,400.00	1,397.01	1,400.99	1,399.01	4.82	4.79	-123.47	-590.00	-79.00	623.46	613.86	9.60	64.927	
1,500.00	1,496.15	1,498.15	1,498.15	5.20	5.14	-124.46	-590.00	-79.00	630.79	620.47	10.32	61.098	
1,600.00	1,595.30	1,579.59	1,579.58	5.58	5.42	-125.24	-591.10	-79.11	639.65	628.68	10.97	58.300	
1,700.00	1,694.44	1,660.26	1,660.18	5.96	5.68	-125.98	-594.46	-79.46	651.47	639.87	11.60	56.165	
1,800.00	1,793.59	1,740.37	1,740.09	6.35	5.95	-126.67	-600.03	-80.02	666.19	653.98	12.21	54.544	
1,900.00	1,892.74	1,819.80	1,819.13	6.74	6.21	-127.31	-607.74	-80.81	683.76	670.95	12.82	53.344	
2,000.00	1,991.88	1,900.00	1,898.70	7.13	6.48	-127.91	-617.74	-81.83	704.14	690.72	13.42	52.471	
2,100.00	2,091.03	1,976.17	1,973.98	7.52	6.74	-128.42	-629.28	-83.01	727.23	713.24	13.99	51.976	
2,200.00	2,190.17	2,052.92	2,049.49	7.91	7.01	-128.89	-642.92	-84.41	752.99	738.43	14.56	51.719	
2,300.00	2,289.32	2,128.91	2,123.87	8.30	7.29	-129.31	-658.40	-85.99	781.34	766.22	15.12	51.688	
2,400.00	2,388.46	2,224.22	2,216.91	8.69	7.64	-129.78	-679.00	-88.10	810.94	795.13	15.81	51.288	
2,500.00	2,487.61	2,319.53	2,309.94	9.08	8.01	-130.22	-699.59	-90.20	840.59	824.08	16.51	50.912	
2,600.00	2,586.75	2,414.85	2,402.98	9.48	8.38	-130.63	-720.19	-92.31	870.28	853.07	17.21	50.556	
2,700.00	2,685.90	2,510.16	2,496.01	9.87	8.76	-131.01	-740.79	-94.41	900.01	882.09	17.92	50.221	
2,800.00	2,785.04	2,605.47	2,589.05	10.27	9.15	-131.37	-761.39	-96.52	929.77	911.14	18.63	49.905	
2,900.00	2,884.19	2,700.78	2,682.08	10.66	9.54	-131.71	-781.99	-98.62	959.57	940.23	19.34	49.605	
3,000.00	2,983.34	2,803.91	2,775.12	11.06	9.97	-132.02	-802.58	-100.73	989.39	969.30	20.09	49.252	
3,100.00	3,082.48	2,891.40	2,868.15	11.45	10.34	-132.32	-823.18	-102.83	1,019.24	998.47	20.78	49.055	
3,200.00	3,181.63	2,986.71	2,961.19	11.85	10.74	-132.60	-843.78	-104.94	1,049.12	1,027.62	21.50	48.801	
3,300.00	3,280.77	3,082.02	3,054.22	12.24	11.15	-132.89	-864.38	-107.04	1,079.01	1,056.79	22.22	48.561	
3,400.00	3,380.14	3,177.77	3,147.68	12.63	11.56	-133.50	-885.07	-109.16	1,107.68	1,084.74	22.94	48.287	
3,500.00	3,479.84	3,274.22	3,241.83	13.00	11.98	-133.93	-905.91	-111.29	1,134.04	1,110.39	23.65	47.942	
3,600.00	3,579.75	3,371.27	3,336.56	13.36	12.41	-134.19	-926.89	-113.43	1,158.06	1,133.70	24.36	47.531	
3,700.00	3,679.74	3,468.78	3,431.74	13.70	12.84	-172.81	-947.96	-115.59	1,179.83	1,154.76	25.07	47.067	
3,800.00	3,779.74	3,566.39	3,527.02	14.03	13.27	-173.04	-969.05	-117.74	1,201.03	1,175.26	25.77	46.603	
3,900.00	3,879.74	3,664.00	3,622.30	14.37	13.70	-173.26	-990.15	-119.90	1,222.24	1,195.77	26.48	46.162	
4,000.00	3,979.74	3,761.61	3,717.58	14.71	14.14	-173.48	-1,011.24	-122.06	1,243.48	1,216.30	27.18	45.742	
4,100.00	4,079.74	3,859.23	3,812.87	15.04	14.57	-173.69	-1,032.34	-124.21	1,264.73	1,236.84	27.89	45.343	
4,200.00	4,179.74	3,956.84	3,908.15	15.38	15.01	-173.90	-1,053.43	-126.37	1,286.00	1,257.40	28.60	44.961	
4,300.00	4,279.74	4,054.45	4,003.43	15.72	15.45	-174.09	-1,074.53	-128.52	1,307.28	1,277.97	29.31	44.597	
4,400.00	4,379.74	4,152.06	4,098.71	16.07	15.89	-174.28	-1,095.62	-130.68	1,328.58	1,298.55	30.03	44.249	
4,500.00	4,479.74	4,249.67	4,193.99	16.41	16.33	-174.47	-1,116.72	-132.84	1,349.89	1,319.15	30.74	43.916	
4,600.00	4,579.74	4,347.29	4,289.27	16.75	16.77	-174.65	-1,137.81	-134.99	1,371.21	1,339.76	31.45	43.598	
4,700.00	4,679.74	4,444.90	4,384.55	17.09	17.21	-174.82	-1,158.91	-137.15	1,392.55	1,360.38	32.17	43.292	
4,800.00	4,779.74	4,542.51	4,479.83	17.44	17.66	-174.99	-1,180.00	-139.30	1,413.89	1,381.01	32.88	43.000	
4,900.00	4,879.74	4,640.12	4,575.11	17.78	18.10	-175.15	-1,201.10	-141.46	1,435.25	1,401.66	33.60	42.719	
5,000.00	4,979.74	4,737.73	4,670.39	18.13	18.55	-175.31	-1,222.19	-143.62	1,456.62	1,422.31	34.31	42.450	
5,100.00	5,079.74	4,835.35	4,765.67	18.47	18.99	-175.46	-1,243.29	-145.77	1,478.00	1,442.97	35.03	42.191	

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 #205H
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:	#205H	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	Vertical	Offset	Vertical	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Minimum	Separation	Warning
Measured Depth (usft)	Depth (usft)	Measured Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
5,200.00	5,179.74	5,023.51	4,950.41	18.82	19.82	175.71	-1,278.69	-149.39	1,496.81	1,480.47	36.34	41.189
5,300.00	5,279.74	5,228.92	5,154.25	19.17	20.63	175.88	-1,303.49	-151.93	1,508.78	1,471.19	37.59	40.134
5,400.00	5,379.74	5,436.89	5,361.92	19.51	21.35	175.95	-1,313.75	-152.97	1,513.67	1,475.00	38.66	39.149
5,500.00	5,479.74	5,556.71	5,481.74	19.86	21.71	175.95	-1,314.00	-153.00	1,513.79	1,474.40	39.39	38.433
5,600.00	5,579.74	5,656.71	5,581.74	20.21	22.00	175.95	-1,314.00	-153.00	1,513.79	1,473.72	40.06	37.786
5,700.00	5,679.74	5,756.71	5,681.74	20.56	22.30	175.95	-1,314.00	-153.00	1,513.79	1,473.05	40.74	37.159
5,800.00	5,779.74	5,856.71	5,781.74	20.91	22.59	175.95	-1,314.00	-153.00	1,513.79	1,472.37	41.42	36.551
5,900.00	5,879.74	5,956.71	5,881.74	21.25	22.89	175.95	-1,314.00	-153.00	1,513.79	1,471.69	42.09	35.962
6,000.00	5,979.74	6,056.71	5,981.74	21.60	23.20	175.95	-1,314.00	-153.00	1,513.79	1,471.01	42.77	35.390
6,100.00	6,079.74	6,156.71	6,081.74	21.95	23.50	175.95	-1,314.00	-153.00	1,513.79	1,470.33	43.46	34.835
6,200.00	6,179.74	6,256.71	6,181.74	22.30	23.80	175.95	-1,314.00	-153.00	1,513.79	1,469.65	44.14	34.297
6,300.00	6,279.74	6,356.71	6,281.74	22.65	24.11	175.95	-1,314.00	-153.00	1,513.79	1,468.97	44.82	33.774
6,303.43	6,283.17	6,360.14	6,285.17	22.66	24.12	175.95	-1,314.00	-153.00	1,513.79	1,468.94	44.84	33.756
6,400.00	6,379.74	6,436.30	6,361.29	23.00	24.36	175.88	-1,314.18	-151.22	1,514.23	1,468.77	45.45	33.313
6,500.00	6,479.74	6,500.00	6,424.38	23.35	24.56	175.56	-1,315.03	-142.72	1,516.66	1,470.63	46.03	32.950
6,600.00	6,579.74	6,568.64	6,490.84	23.70	24.77	174.93	-1,316.71	-125.82	1,521.37	1,474.78	46.59	32.653
6,700.00	6,679.74	6,628.94	6,547.20	24.05	24.94	174.14	-1,318.84	-104.54	1,528.73	1,481.63	47.09	32.461
6,800.00	6,779.74	6,684.15	6,596.56	24.41	25.10	173.23	-1,321.29	-80.00	1,539.11	1,491.57	47.53	32.379
6,900.00	6,879.74	6,733.97	6,638.89	24.76	25.23	172.28	-1,323.89	-53.87	1,552.91	1,505.02	47.90	32.422
7,000.00	6,979.74	6,778.52	6,674.68	25.11	25.34	171.32	-1,326.53	-27.50	1,570.49	1,522.31	48.18	32.598
7,100.00	7,079.74	6,818.14	6,704.69	25.46	25.44	170.39	-1,329.09	-1.78	1,592.09	1,543.74	48.36	32.924
7,200.00	7,179.74	6,850.00	6,727.49	25.81	25.52	169.60	-1,331.30	20.36	1,617.90	1,569.49	48.41	33.420
7,300.00	7,279.74	6,884.43	6,750.69	26.17	25.59	168.70	-1,333.83	45.67	1,647.98	1,599.55	48.42	34.033
7,400.00	7,379.74	6,900.00	6,760.68	26.52	25.63	168.28	-1,335.02	57.56	1,682.43	1,634.23	48.21	34.901
7,500.00	7,479.74	6,936.69	6,782.89	26.87	25.72	167.27	-1,337.92	86.60	1,720.88	1,672.76	48.12	35.762
7,600.00	7,579.74	6,950.00	6,790.48	27.22	25.75	166.89	-1,339.00	97.49	1,763.55	1,715.78	47.77	36.918
7,700.00	7,679.74	6,978.30	6,805.76	27.58	25.82	166.07	-1,341.37	121.18	1,810.01	1,762.48	47.53	38.084
7,800.00	7,779.74	7,000.00	6,816.67	27.93	25.87	165.44	-1,343.23	139.85	1,860.23	1,813.05	47.19	39.422
7,900.00	7,879.74	7,000.00	6,816.67	28.28	25.87	165.44	-1,343.23	139.85	1,914.02	1,867.41	46.61	41.061
8,000.00	7,979.74	7,026.31	6,828.93	28.63	25.95	164.66	-1,345.54	163.00	1,970.85	1,924.55	46.30	42.566
8,100.00	8,079.74	7,050.00	6,839.05	28.99	26.02	163.94	-1,347.67	184.32	2,030.91	1,984.96	45.95	44.194
8,200.00	8,179.74	7,050.00	6,839.05	29.34	26.02	163.94	-1,347.67	184.32	2,093.60	2,048.22	45.38	46.138
8,300.00	8,279.74	7,050.00	6,839.05	29.70	26.02	163.94	-1,347.67	184.32	2,159.09	2,114.28	44.81	48.181
8,400.00	8,379.74	7,072.25	6,847.74	30.05	26.10	163.27	-1,349.70	204.70	2,226.72	2,182.23	44.50	50.044
8,500.00	8,479.74	7,081.45	6,851.10	30.40	26.13	162.99	-1,350.55	213.22	2,296.68	2,252.62	44.06	52.121
8,600.00	8,579.74	7,100.00	6,857.45	30.76	26.21	162.42	-1,352.28	230.56	2,368.76	2,325.01	43.75	54.144
8,700.00	8,679.74	7,100.00	6,857.45	31.11	26.21	162.42	-1,352.28	230.56	2,442.51	2,399.23	43.28	56.434
8,800.00	8,779.27	7,100.00	6,857.45	31.44	26.21	162.42	-1,352.28	230.56	2,514.64	2,471.85	42.79	58.767
8,900.00	8,875.84	7,100.00	6,857.45	31.73	26.21	162.42	-1,352.28	230.56	2,580.26	2,538.00	42.26	61.056
9,000.00	8,966.53	7,150.00	6,871.73	32.01	26.44	162.42	-1,357.04	278.23	2,637.29	2,595.11	42.17	62.533
9,100.00	9,048.57	7,150.00	6,871.73	32.28	26.44	162.42	-1,357.04	278.23	2,684.40	2,642.77	41.62	64.492
9,200.00	9,119.47	7,150.00	6,871.73	32.57	26.44	162.42	-1,357.04	278.23	2,721.28	2,680.17	41.11	66.198
9,300.00	9,177.08	7,200.00	6,881.79	32.91	26.75	162.42	-1,361.91	326.95	2,746.59	2,705.51	41.07	66.873
9,400.00	9,219.65	7,200.00	6,881.79	33.33	26.75	162.42	-1,361.91	326.95	2,759.44	2,718.72	40.71	67.776
9,500.00	9,245.89	7,219.40	6,884.53	33.84	26.89	162.42	-1,363.81	346.06	2,760.24	2,719.60	40.64	67.919
9,600.00	9,254.99	7,250.00	6,887.53	34.44	27.12	162.42	-1,366.84	376.36	2,748.78	2,707.99	40.79	67.394
9,700.00	9,255.00	7,250.00	6,887.53	35.15	27.12	162.42	-1,366.84	376.36	2,733.25	2,692.35	40.89	66.837
9,800.00	9,255.00	7,291.01	6,889.00	36.00	27.46	162.42	-1,370.91	417.12	2,723.36	2,681.93	41.42	65.743
9,900.00	9,255.00	7,339.97	6,889.00	36.97	27.92	162.42	-1,375.35	465.89	2,718.42	2,676.26	42.16	64.476
10,000.00	9,255.00	7,526.27	6,889.00	38.06	29.99	162.42	-1,384.64	651.92	2,714.73	2,670.94	43.79	61.991
10,100.00	9,255.00	7,647.93	6,889.00	39.24	31.59	162.42	-1,385.13	773.57	2,711.33	2,666.11	45.22	59.957
10,199.19	9,255.00	7,747.08	6,889.00	40.49	33.00	162.42	-1,385.22	872.73	2,710.22	2,663.55	46.67	58.072

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 #205H
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:	#205H	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		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	Warning
10,200.00	9,255.00	7,747.90	6,889.00	40.50	33.02	29.11	-1,385.22	873.54	2,710.36	2,663.67	46.69	58.055	
10,300.00	9,255.00	7,847.90	6,889.00	41.85	34.55	29.11	-1,385.30	973.54	2,710.38	2,662.10	48.27	56.146	
10,400.00	9,255.00	7,947.90	6,889.00	43.28	36.16	29.11	-1,385.39	1,073.54	2,710.40	2,660.45	49.95	54.265	
10,500.00	9,255.00	8,047.90	6,889.00	44.78	37.85	29.11	-1,385.47	1,173.54	2,710.41	2,658.71	51.70	52.425	
10,600.00	9,255.00	8,147.90	6,889.00	46.35	39.60	29.11	-1,385.56	1,273.54	2,710.43	2,656.91	53.52	50.640	
10,700.00	9,255.00	8,247.90	6,889.00	47.98	41.41	29.11	-1,385.64	1,373.54	2,710.45	2,655.04	55.41	48.915	
10,800.00	9,255.00	8,347.90	6,889.00	49.66	43.26	29.11	-1,385.72	1,473.54	2,710.47	2,653.11	57.36	47.257	
10,900.00	9,255.00	8,447.90	6,889.00	51.40	45.16	29.12	-1,385.81	1,573.54	2,710.49	2,651.13	59.35	45.667	
11,000.00	9,255.00	8,547.90	6,889.00	53.17	47.09	29.12	-1,385.89	1,673.54	2,710.50	2,649.11	61.40	44.148	
11,100.00	9,255.00	8,647.90	6,889.00	54.99	49.06	29.12	-1,385.98	1,773.54	2,710.52	2,647.04	63.48	42.697	
11,200.00	9,255.00	8,747.90	6,889.00	56.84	51.05	29.12	-1,386.06	1,873.54	2,710.54	2,644.93	65.61	41.314	
11,300.00	9,255.00	8,847.90	6,889.00	58.72	53.07	29.12	-1,386.15	1,973.54	2,710.56	2,642.79	67.77	39.998	
11,400.00	9,255.00	8,947.90	6,889.00	60.64	55.12	29.12	-1,386.23	2,073.54	2,710.58	2,640.62	69.96	38.746	
11,500.00	9,255.00	9,047.90	6,889.00	62.58	57.18	29.12	-1,386.32	2,173.54	2,710.59	2,638.42	72.18	37.554	
11,600.00	9,255.00	9,147.90	6,889.00	64.54	59.26	29.12	-1,386.40	2,273.54	2,710.61	2,636.19	74.42	36.421	
11,700.00	9,255.00	9,247.90	6,889.00	66.53	61.36	29.12	-1,386.48	2,373.54	2,710.63	2,633.94	76.70	35.343	
11,800.00	9,255.00	9,347.90	6,889.00	68.54	63.47	29.12	-1,386.57	2,473.54	2,710.65	2,631.66	78.99	34.317	
11,900.00	9,255.00	9,447.90	6,889.00	70.56	65.60	29.12	-1,386.65	2,573.54	2,710.67	2,629.37	81.30	33.342	
12,000.00	9,255.00	9,547.90	6,889.00	72.60	67.74	29.12	-1,386.74	2,673.54	2,710.69	2,627.05	83.63	32.412	
12,100.00	9,255.00	9,647.90	6,889.00	74.66	69.89	29.12	-1,386.82	2,773.54	2,710.70	2,624.72	85.98	31.528	
12,200.00	9,255.00	9,747.90	6,889.00	76.74	72.04	29.12	-1,386.91	2,873.54	2,710.72	2,622.38	88.34	30.684	
12,300.00	9,255.00	9,847.90	6,889.00	78.82	74.21	29.12	-1,386.99	2,973.54	2,710.74	2,620.02	90.72	29.880	
12,400.00	9,255.00	9,947.90	6,889.00	80.92	76.39	29.13	-1,387.08	3,073.54	2,710.76	2,617.65	93.11	29.113	
12,500.00	9,255.00	10,047.90	6,889.00	83.03	78.57	29.13	-1,387.16	3,173.54	2,710.78	2,615.26	95.52	28.380	
12,600.00	9,255.00	10,147.90	6,889.00	85.15	80.76	29.13	-1,387.24	3,273.54	2,710.79	2,612.86	97.93	27.681	
12,700.00	9,255.00	10,247.90	6,889.00	87.28	82.96	29.13	-1,387.33	3,373.54	2,710.81	2,610.46	100.36	27.012	
12,800.00	9,255.00	10,347.90	6,889.00	89.41	85.16	29.13	-1,387.41	3,473.54	2,710.83	2,608.04	102.79	26.372	
12,900.00	9,255.00	10,447.90	6,889.00	91.56	87.37	29.13	-1,387.50	3,573.54	2,710.85	2,605.61	105.24	25.759	
13,000.00	9,255.00	10,547.90	6,889.00	93.71	89.58	29.13	-1,387.58	3,673.54	2,710.87	2,603.18	107.69	25.173	
13,100.00	9,255.00	10,647.90	6,889.00	95.88	91.80	29.13	-1,387.67	3,773.54	2,710.88	2,600.73	110.15	24.610	
13,200.00	9,255.00	10,747.90	6,889.00	98.04	94.02	29.13	-1,387.75	3,873.54	2,710.90	2,598.28	112.62	24.071	
13,300.00	9,255.00	10,847.90	6,889.00	100.22	96.25	29.13	-1,387.84	3,973.54	2,710.92	2,595.82	115.10	23.553	
13,400.00	9,255.00	10,947.90	6,889.00	102.40	98.48	29.13	-1,387.92	4,073.54	2,710.94	2,593.36	117.58	23.056	
13,500.00	9,255.00	11,047.90	6,889.00	104.58	100.72	29.13	-1,388.01	4,173.54	2,710.96	2,590.89	120.07	22.578	
13,600.00	9,255.00	11,147.90	6,889.00	106.77	102.95	29.13	-1,388.09	4,273.54	2,710.98	2,588.41	122.56	22.119	
13,700.00	9,255.00	11,247.90	6,889.00	108.97	105.19	29.13	-1,388.17	4,373.54	2,710.99	2,585.93	125.06	21.677	
13,800.00	9,255.00	11,347.90	6,889.00	111.17	107.44	29.14	-1,388.26	4,473.54	2,711.01	2,583.44	127.57	21.251	
13,900.00	9,255.00	11,447.90	6,889.00	113.38	109.68	29.14	-1,388.34	4,573.54	2,711.03	2,580.95	130.08	20.841	
14,000.00	9,255.00	11,547.90	6,889.00	115.58	111.93	29.14	-1,388.43	4,673.54	2,711.05	2,578.45	132.59	20.446	
14,100.00	9,255.00	11,647.90	6,889.00	117.80	114.18	29.14	-1,388.51	4,773.54	2,711.07	2,575.95	135.11	20.065	
14,200.00	9,255.00	11,747.90	6,889.00	120.01	116.43	29.14	-1,388.60	4,873.54	2,711.08	2,573.45	137.64	19.697	
14,300.00	9,255.00	11,847.90	6,889.00	122.23	118.69	29.14	-1,388.68	4,973.54	2,711.10	2,570.94	140.16	19.342	
14,400.00	9,255.00	11,947.90	6,889.00	124.46	120.95	29.14	-1,388.77	5,073.54	2,711.12	2,568.43	142.69	18.999	
14,500.00	9,255.00	12,047.90	6,889.00	126.68	123.21	29.14	-1,388.85	5,173.54	2,711.14	2,565.91	145.23	18.668	
14,600.00	9,255.00	12,147.90	6,889.00	128.91	125.47	29.14	-1,388.93	5,273.54	2,711.16	2,563.39	147.77	18.348	
14,700.00	9,255.00	12,247.90	6,889.00	131.14	127.73	29.14	-1,389.02	5,373.54	2,711.17	2,560.87	150.31	18.037	
14,800.00	9,255.00	12,347.90	6,889.00	133.38	129.99	29.14	-1,389.10	5,473.54	2,711.19	2,558.34	152.85	17.737	
14,900.00	9,255.00	12,447.90	6,889.00	135.61	132.26	29.14	-1,389.19	5,573.54	2,711.21	2,555.81	155.40	17.447	
15,000.00	9,255.00	12,547.90	6,889.00	137.85	134.53	29.14	-1,389.27	5,673.54	2,711.23	2,553.28	157.95	17.165	
15,100.00	9,255.00	12,647.90	6,889.00	140.09	136.80	29.14	-1,389.36	5,773.54	2,711.25	2,550.75	160.50	16.893	
15,200.00	9,255.00	12,747.90	6,889.00	142.34	139.07	29.14	-1,389.44	5,873.54	2,711.27	2,548.21	163.05	16.628	
15,300.00	9,255.00	12,847.90	6,889.00	144.58	141.34	29.15	-1,389.53	5,973.54	2,711.28	2,545.67	165.61	16.371	

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

Pro Directional Anticollision Report

Company:	Mataador Resources	Local Co-ordinate Reference:	Well #205H
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:	#205H	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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,400.00	9,255.00	12,947.90	6,889.00	146.83	143.61	29.15	-1,389.61	6,073.54	2,711.30	2,543.13	168.17	16.122		
15,500.00	9,255.00	13,047.90	6,889.00	149.08	145.88	29.15	-1,389.70	6,173.54	2,711.32	2,540.59	170.73	15.881		
15,600.00	9,255.00	13,147.90	6,889.00	151.33	148.16	29.15	-1,389.78	6,273.54	2,711.34	2,538.04	173.30	15.646		
15,700.00	9,255.00	13,247.90	6,889.00	153.58	150.43	29.15	-1,389.86	6,373.54	2,711.36	2,535.49	175.86	15.418		
15,800.00	9,255.00	13,347.90	6,889.00	155.84	152.71	29.15	-1,389.95	6,473.54	2,711.37	2,532.95	178.43	15.196		
15,900.00	9,255.00	13,447.90	6,889.00	158.09	154.99	29.15	-1,390.03	6,573.54	2,711.39	2,530.39	181.00	14.980		
16,000.00	9,255.00	13,547.90	6,889.00	160.35	157.27	29.15	-1,390.12	6,673.54	2,711.41	2,527.84	183.57	14.771		
16,100.00	9,255.00	13,647.90	6,889.00	162.61	159.55	29.15	-1,390.20	6,773.54	2,711.43	2,525.29	186.14	14.566		
16,200.00	9,255.00	13,747.90	6,889.00	164.87	161.83	29.15	-1,390.29	6,873.54	2,711.45	2,522.73	188.72	14.368		
16,300.00	9,255.00	13,847.90	6,889.00	167.13	164.11	29.15	-1,390.37	6,973.54	2,711.46	2,520.17	191.29	14.175		
16,400.00	9,255.00	13,947.90	6,889.00	169.40	166.39	29.15	-1,390.46	7,073.54	2,711.48	2,517.61	193.87	13.986		
16,500.00	9,255.00	14,047.90	6,889.00	171.66	168.67	29.15	-1,390.54	7,173.54	2,711.50	2,515.05	196.45	13.803		
16,600.00	9,255.00	14,147.90	6,889.00	173.93	170.95	29.15	-1,390.62	7,273.54	2,711.52	2,512.49	199.03	13.624		
16,700.00	9,255.00	14,247.90	6,889.00	176.19	173.24	29.15	-1,390.71	7,373.54	2,711.54	2,509.93	201.61	13.449		
16,800.00	9,255.00	14,347.90	6,889.00	178.46	175.52	29.16	-1,390.79	7,473.54	2,711.56	2,507.36	204.19	13.279		
16,900.00	9,255.00	14,447.90	6,889.00	180.73	177.81	29.16	-1,390.88	7,573.54	2,711.57	2,504.80	206.78	13.114		
17,000.00	9,255.00	14,547.90	6,889.00	183.00	180.09	29.16	-1,390.96	7,673.54	2,711.59	2,502.23	209.36	12.952		
17,100.00	9,255.00	14,647.90	6,889.00	185.27	182.38	29.16	-1,391.05	7,773.54	2,711.61	2,499.66	211.95	12.794		
17,200.00	9,255.00	14,747.90	6,889.00	187.54	184.67	29.16	-1,391.13	7,873.54	2,711.63	2,497.09	214.54	12.640		
17,300.00	9,255.00	14,847.90	6,889.00	189.81	186.95	29.16	-1,391.22	7,973.54	2,711.65	2,494.52	217.12	12.489		
17,400.00	9,255.00	14,947.90	6,889.00	192.09	189.24	29.16	-1,391.30	8,073.54	2,711.66	2,491.95	219.71	12.342		
17,500.00	9,255.00	15,047.90	6,889.00	194.36	191.53	29.16	-1,391.38	8,173.54	2,711.68	2,489.38	222.31	12.198		
17,600.00	9,255.00	15,147.90	6,889.00	196.64	193.82	29.16	-1,391.47	8,273.54	2,711.70	2,486.80	224.90	12.058		
17,700.00	9,255.00	15,247.90	6,889.00	198.91	196.11	29.16	-1,391.55	8,373.54	2,711.72	2,484.23	227.49	11.920		
17,800.00	9,255.00	15,347.90	6,889.00	201.19	198.40	29.16	-1,391.64	8,473.54	2,711.74	2,481.65	230.08	11.786		
17,900.00	9,255.00	15,447.90	6,889.00	203.47	200.69	29.16	-1,391.72	8,573.54	2,711.76	2,479.08	232.68	11.655		
18,000.00	9,255.00	15,547.90	6,889.00	205.74	202.98	29.16	-1,391.81	8,673.54	2,711.77	2,476.50	235.27	11.526		
18,100.00	9,255.00	15,647.90	6,889.00	208.02	205.27	29.16	-1,391.89	8,773.54	2,711.79	2,473.92	237.87	11.400		
18,200.00	9,255.00	15,747.90	6,889.00	210.30	207.56	29.17	-1,391.98	8,873.54	2,711.81	2,471.34	240.47	11.277		
18,300.00	9,255.00	15,847.90	6,889.00	212.58	209.86	29.17	-1,392.06	8,973.54	2,711.83	2,468.76	243.06	11.157		
18,400.00	9,255.00	15,947.90	6,889.00	214.86	212.15	29.17	-1,392.15	9,073.54	2,711.85	2,466.18	245.66	11.039		
18,500.00	9,255.00	16,047.90	6,889.00	217.14	214.44	29.17	-1,392.23	9,173.54	2,711.86	2,463.60	248.26	10.923		
18,600.00	9,255.00	16,147.90	6,889.00	219.43	216.73	29.17	-1,392.31	9,273.54	2,711.88	2,461.02	250.86	10.810		
18,700.00	9,255.00	16,247.90	6,889.00	221.71	219.03	29.17	-1,392.40	9,373.54	2,711.90	2,458.44	253.46	10.699		
18,800.00	9,255.00	16,347.90	6,889.00	223.99	221.32	29.17	-1,392.48	9,473.54	2,711.92	2,455.85	256.06	10.591		
18,900.00	9,255.00	16,447.90	6,889.00	226.28	223.61	29.17	-1,392.57	9,573.54	2,711.94	2,453.27	258.67	10.484		
19,000.00	9,255.00	16,547.90	6,889.00	228.56	225.91	29.17	-1,392.65	9,673.54	2,711.95	2,450.69	261.27	10.380		
19,100.00	9,255.00	16,647.90	6,889.00	230.84	228.20	29.17	-1,392.74	9,773.54	2,711.97	2,448.10	263.87	10.278		
19,200.00	9,255.00	16,747.90	6,889.00	233.13	230.50	29.17	-1,392.82	9,873.54	2,711.99	2,445.51	266.48	10.177		
19,300.00	9,255.00	16,847.90	6,889.00	235.41	232.79	29.17	-1,392.91	9,973.54	2,712.01	2,442.93	269.08	10.079		
19,400.00	9,255.00	16,947.90	6,889.00	237.69	235.09	29.17	-1,393.00	10,073.54	2,712.03	2,440.34	271.69	9.986		
19,407.34	9,255.00	16,955.24	6,889.00	239.98	237.38	29.17	-1,393.00	10,080.88	2,712.03	2,440.71	271.32	9.996 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 #205H
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:	#205H	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	
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	2.00	2.00	0.00	0.00	-173.56	-700.00	-79.00	704.44				
100.00	100.00	102.00	102.00	0.13	0.14	-173.56	-700.00	-79.00	704.44	704.18	0.26	2,673.645	
200.00	200.00	202.00	202.00	0.49	0.49	-173.56	-700.00	-79.00	704.44	703.46	0.98	718.512	
300.00	300.00	302.00	302.00	0.85	0.85	-173.56	-700.00	-79.00	704.44	702.75	1.70	415.022	
400.00	400.00	402.00	402.00	1.20	1.21	-173.56	-700.00	-79.00	704.44	702.03	2.41	291.779	
500.00	500.00	502.00	502.00	1.56	1.57	-173.56	-700.00	-79.00	704.44	701.31	3.13	224.972	
600.00	600.00	602.00	602.00	1.92	1.93	-173.56	-700.00	-79.00	704.44	700.60	3.85	183.058	
700.00	700.00	702.00	702.00	2.28	2.29	-173.56	-700.00	-79.00	704.44	699.88	4.57	154.310	
800.00	800.00	802.00	802.00	2.64	2.64	-173.56	-700.00	-79.00	704.44	699.16	5.28	133.365	
900.00	899.98	901.98	901.98	2.99	3.00	-120.68	-700.00	-79.00	705.33	699.34	6.00	117.635	
1,000.00	999.84	1,001.84	1,001.84	3.35	3.36	-121.00	-700.00	-79.00	708.02	701.31	6.71	105.537	
1,100.00	1,099.45	1,101.45	1,101.45	3.71	3.72	-121.52	-700.00	-79.00	712.55	705.13	7.42	95.970	
1,200.00	1,198.72	1,200.72	1,200.72	4.07	4.07	-122.26	-700.00	-79.00	718.97	710.82	8.15	88.266	
1,300.00	1,297.86	1,300.14	1,299.86	4.44	4.43	-123.12	-700.00	-79.00	726.05	717.18	8.87	81.858	
1,400.00	1,397.01	1,400.99	1,399.01	4.82	4.79	-123.97	-700.00	-79.00	733.31	723.70	9.60	76.368	
1,500.00	1,496.15	1,501.85	1,498.15	5.20	5.15	-124.80	-700.00	-79.00	740.72	730.38	10.34	71.655	
1,600.00	1,595.30	1,602.70	1,597.30	5.58	5.51	-125.62	-700.00	-79.00	748.28	737.21	11.07	67.571	
1,700.00	1,694.44	1,703.56	1,696.44	5.96	5.88	-126.42	-700.00	-79.00	755.99	744.18	11.81	64.003	
1,800.00	1,793.59	1,804.41	1,795.59	6.35	6.24	-127.20	-700.00	-79.00	763.85	751.30	12.55	60.861	
1,900.00	1,892.74	1,905.27	1,894.74	6.74	6.60	-127.97	-700.00	-79.00	771.85	758.56	13.29	58.077	
2,000.00	1,991.88	1,993.88	1,993.88	7.13	6.92	-128.72	-700.00	-79.00	779.99	766.00	13.99	55.769	
2,100.00	2,091.03	2,126.97	2,126.93	7.52	7.39	-129.66	-697.29	-79.77	786.25	771.41	14.84	52.979	
2,200.00	2,190.17	2,263.04	2,262.67	7.91	7.88	-130.50	-688.40	-82.31	788.03	772.35	15.68	50.252	
2,300.00	2,289.32	2,399.27	2,397.97	8.30	8.37	-131.24	-673.29	-86.63	785.28	768.78	16.49	47.610	
2,400.00	2,388.46	2,501.40	2,499.08	8.69	8.74	-131.75	-659.34	-90.61	779.96	762.73	17.24	45.253	
2,500.00	2,487.61	2,601.02	2,597.68	9.08	9.10	-132.27	-645.72	-94.50	774.70	756.72	17.97	43.101	
2,600.00	2,586.75	2,700.64	2,696.29	9.48	9.47	-132.79	-632.11	-98.38	769.50	750.78	18.71	41.121	
2,700.00	2,685.90	2,800.26	2,794.89	9.87	9.84	-133.31	-618.49	-102.27	764.36	744.90	19.45	39.292	
2,800.00	2,785.04	2,900.12	2,893.50	10.27	10.21	-133.85	-604.87	-106.16	759.29	739.09	20.19	37.598	
2,900.00	2,884.19	3,000.51	2,992.11	10.66	10.59	-134.39	-591.25	-110.05	754.28	733.34	20.94	36.024	
3,000.00	2,983.34	3,100.89	3,090.71	11.06	10.97	-134.93	-577.63	-113.93	749.34	727.66	21.68	34.560	
3,100.00	3,082.48	3,201.27	3,189.32	11.45	11.35	-135.49	-564.01	-117.82	744.48	722.05	22.43	33.196	
3,200.00	3,181.63	3,301.65	3,287.93	11.85	11.73	-136.05	-550.40	-121.71	739.68	716.51	23.17	31.922	
3,300.00	3,280.77	3,402.03	3,386.53	12.24	12.12	-136.62	-536.78	-125.60	734.95	711.04	23.92	30.731	
3,400.00	3,380.14	3,502.41	3,485.15	12.63	12.50	-137.01	-523.16	-129.49	728.91	704.26	24.66	29.564	
3,500.00	3,479.84	3,602.85	3,583.70	13.00	12.89	-137.19	-509.55	-133.37	720.36	694.97	25.39	28.375	
3,600.00	3,579.75	3,703.48	3,682.06	13.36	13.28	-137.15	-495.96	-137.25	709.27	683.16	26.11	27.165	
3,700.00	3,679.74	3,804.40	3,780.12	13.70	13.67	170.06	-482.42	-141.12	695.75	668.92	26.82	25.937	
3,800.00	3,779.74	3,905.42	3,878.10	14.03	14.06	170.19	-468.89	-144.98	681.61	654.07	27.54	24.754	
3,900.00	3,879.74	4,006.44	3,976.08	14.37	14.45	170.32	-455.36	-148.84	667.47	639.23	28.25	23.629	
4,000.00	3,979.74	4,107.45	4,074.06	14.71	14.85	170.45	-441.83	-152.71	653.34	624.38	28.96	22.559	
4,100.00	4,079.74	4,208.47	4,172.04	15.04	15.24	170.59	-428.29	-156.57	639.21	609.54	29.68	21.540	
4,200.00	4,179.74	4,309.48	4,270.02	15.38	15.64	170.74	-414.76	-160.43	625.09	594.70	30.39	20.569	
4,300.00	4,279.74	4,389.50	4,368.00	15.72	15.95	170.90	-401.23	-164.30	610.97	579.94	31.03	19.690	
4,400.00	4,379.74	4,488.49	4,465.98	16.07	16.34	171.06	-387.70	-168.16	596.85	565.11	31.74	18.805	
4,500.00	4,479.74	4,587.47	4,563.96	16.41	16.73	171.23	-374.17	-172.02	582.74	550.29	32.45	17.959	
4,600.00	4,579.74	4,686.45	4,661.93	16.75	17.12	171.41	-360.64	-175.88	568.64	535.48	33.16	17.148	
4,700.00	4,679.74	4,785.44	4,759.91	17.09	17.51	171.59	-347.10	-179.75	554.54	520.67	33.87	16.371	
4,800.00	4,779.74	4,884.42	4,857.89	17.44	17.90	171.79	-333.57	-183.61	540.45	505.86	34.59	15.626	
4,900.00	4,879.74	4,983.41	4,955.87	17.78	18.29	172.00	-320.04	-187.47	526.36	491.06	35.30	14.911	
5,000.00	4,979.74	5,082.39	5,053.85	18.13	18.68	172.22	-306.51	-191.34	512.28	476.27	36.01	14.225	
5,100.00	5,079.74	5,181.38	5,151.83	18.47	19.07	172.45	-292.98	-195.20	498.21	461.48	36.73	13.565	

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 #205H
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:	#205H	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
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
5,200.00	5,179.74	5,280.36	5,249.81	18.82	19.46	172.70	-279.45	-199.06	484.14	446.70	37.44	12.930	
5,300.00	5,279.74	5,379.34	5,347.79	19.17	19.85	172.96	-265.91	-202.93	470.09	431.93	38.16	12.319	
5,400.00	5,379.74	5,478.33	5,445.77	19.51	20.25	173.23	-252.38	-206.79	456.05	417.17	38.88	11.730	
5,500.00	5,479.74	5,577.31	5,543.74	19.86	20.64	173.53	-238.85	-210.65	442.01	402.42	39.59	11.163	
5,600.00	5,579.74	5,676.30	5,641.72	20.21	21.03	173.84	-225.32	-214.52	427.99	387.68	40.31	10.617	
5,700.00	5,679.74	5,775.28	5,739.70	20.56	21.42	174.17	-211.79	-218.38	413.98	372.95	41.03	10.089	
5,800.00	5,779.74	5,874.27	5,837.68	20.91	21.82	174.53	-198.26	-222.24	399.99	358.24	41.75	9.580	
5,900.00	5,879.74	5,973.25	5,935.66	21.25	22.21	174.91	-184.73	-226.11	386.02	343.54	42.47	9.088	
6,000.00	5,979.74	6,072.23	6,033.64	21.60	22.61	175.32	-171.19	-229.97	372.06	328.86	43.20	8.613	
6,100.00	6,079.74	6,171.22	6,131.62	21.95	23.00	175.77	-157.66	-233.83	358.12	314.20	43.92	8.154	
6,200.00	6,179.74	6,270.20	6,229.60	22.30	23.39	176.25	-144.13	-237.69	344.20	299.56	44.64	7.710	
6,300.00	6,279.74	6,369.19	6,327.58	22.65	23.79	176.77	-130.60	-241.56	330.31	284.95	45.37	7.281	
6,400.00	6,379.74	6,468.17	6,425.55	23.00	24.18	177.33	-117.07	-245.42	316.45	270.36	46.09	6.866	
6,500.00	6,479.74	6,567.16	6,523.53	23.35	24.58	177.95	-103.54	-249.28	302.63	255.81	46.82	6.464	
6,600.00	6,579.74	6,663.55	6,618.97	23.70	24.96	178.60	-90.47	-253.01	288.97	241.40	47.56	6.075	
6,700.00	6,679.74	6,754.20	6,708.98	24.05	25.31	179.16	-80.25	-255.93	277.62	229.30	48.32	5.746	
6,800.00	6,779.74	6,845.43	6,799.88	24.41	25.65	179.59	-72.73	-258.08	269.35	220.31	49.03	5.493	
6,900.00	6,879.74	6,937.07	6,891.38	24.76	25.98	179.88	-67.98	-259.43	264.16	214.45	49.71	5.314	
7,000.00	6,979.74	7,028.94	6,983.22	25.11	26.30	180.00	-66.05	-259.99	262.05	211.71	50.34	5.206	
7,040.78	7,020.52	7,068.24	7,022.52	25.25	26.43	180.00	-66.00	-260.00	262.00	211.39	50.61	5.177	
7,100.00	7,079.74	7,127.46	7,081.74	25.46	26.63	180.00	-66.00	-260.00	262.00	210.98	51.02	5.135	
7,200.00	7,179.74	7,227.46	7,181.74	25.81	26.97	180.00	-66.00	-260.00	262.00	210.28	51.72	5.065	
7,202.67	7,182.41	7,230.13	7,184.41	25.82	26.98	180.00	-66.00	-260.00	262.00	210.26	51.74	5.063 CC	
7,300.00	7,279.74	7,327.27	7,281.46	26.17	27.29	179.39	-66.00	-257.23	262.02	209.61	52.40	5.000 ES	
7,400.00	7,379.74	7,423.70	7,376.18	26.52	27.58	175.58	-66.01	-239.75	262.85	209.91	52.94	4.965 SF	
7,500.00	7,479.74	7,512.08	7,459.30	26.87	27.82	169.20	-66.02	-209.99	267.70	214.52	53.18	5.034	
7,600.00	7,579.74	7,589.79	7,527.87	27.22	28.00	161.74	-66.04	-173.53	281.15	228.37	52.78	5.327	
7,700.00	7,679.74	7,656.34	7,582.21	27.58	28.13	154.53	-66.06	-135.18	306.86	255.41	51.45	5.965	
7,800.00	7,779.74	7,712.53	7,624.37	27.93	28.23	148.29	-66.08	-98.07	345.94	296.64	49.30	7.017	
7,900.00	7,879.74	7,759.75	7,656.85	28.28	28.30	143.18	-66.09	-63.82	397.19	350.41	46.77	8.492	
8,000.00	7,979.74	7,800.00	7,682.23	28.63	28.35	139.05	-66.11	-32.59	458.39	414.08	44.31	10.345	
8,100.00	8,079.74	7,833.07	7,701.40	28.99	28.38	135.86	-66.12	-5.65	527.31	485.26	42.05	12.539	
8,200.00	8,179.74	7,861.65	7,716.70	29.34	28.41	133.27	-66.13	18.49	602.11	561.95	40.16	14.991	
8,300.00	8,279.74	7,886.16	7,728.84	29.70	28.43	131.17	-66.14	39.78	681.39	642.78	38.60	17.652	
8,400.00	8,379.74	7,900.00	7,735.29	30.05	28.44	130.04	-66.15	52.02	764.19	727.13	37.06	20.620	
8,500.00	8,479.74	7,925.75	7,746.50	30.40	28.47	128.03	-66.16	75.20	849.51	813.20	36.31	23.393	
8,600.00	8,579.74	7,950.00	7,756.09	30.76	28.55	126.26	-66.17	97.47	937.13	901.38	35.75	26.212	
8,700.00	8,679.74	7,950.00	7,756.09	31.11	28.55	126.26	-66.17	97.47	1,026.33	991.61	34.71	29.565	
8,800.00	8,779.74	7,971.31	7,763.74	31.44	28.66	124.81	-66.18	117.36	1,113.23	1,078.98	34.25	32.499	
8,900.00	8,875.84	8,000.00	7,772.85	31.73	28.83	9.30	-66.20	144.56	1,192.96	1,159.19	33.78	35.319	
9,000.00	8,966.53	8,000.00	7,772.85	32.01	28.83	7.80	-66.20	144.56	1,263.91	1,231.30	32.61	38.762	
9,100.00	9,048.57	8,033.41	7,781.74	32.28	29.04	6.17	-66.21	176.76	1,325.00	1,292.93	32.07	41.314	
9,200.00	9,119.47	8,050.00	7,785.45	32.57	29.15	5.30	-66.22	192.94	1,375.74	1,344.45	31.29	43.973	
9,300.00	9,177.08	8,083.09	7,791.44	32.91	29.38	4.44	-66.23	225.48	1,415.11	1,384.28	30.83	45.902	
9,400.00	9,219.65	8,100.00	7,793.77	33.33	29.51	4.00	-66.24	242.22	1,442.92	1,412.57	30.35	47.536	
9,500.00	9,245.89	8,148.93	7,797.74	33.84	29.88	3.29	-66.27	290.98	1,458.65	1,428.32	30.33	48.090	
9,600.00	9,254.99	8,197.85	7,799.61	34.44	30.28	2.70	-66.29	339.86	1,461.21	1,430.75	30.46	47.977	
9,700.00	9,255.00	8,306.17	7,803.30	35.15	31.31	1.80	-66.34	435.77	1,456.09	1,425.13	30.96	47.027	
9,800.00	9,255.00	8,408.87	7,807.03	36.00	32.42	1.07	-66.38	532.99	1,451.57	1,420.01	31.56	46.000	
9,900.00	9,255.00	8,489.48	7,810.80	36.97	33.38	0.51	-66.43	631.27	1,447.42	1,415.27	32.15	45.023	
10,000.00	9,255.00	8,588.62	7,814.61	38.06	34.67	0.15	-66.48	730.34	1,443.48	1,410.62	32.86	43.926	
10,100.00	9,255.00	8,688.27	7,818.43	39.24	36.06	-0.02	-66.53	829.92	1,439.63	1,406.01	33.62	42.821	

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 #205H
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:	#205H	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
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis 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
10,200.00	9,255.00	8,788.17	7,822.26	40.50	37.54	0.00	-66.58	929.74	1,435.79	1,401.38	34.41	41.725	
10,300.00	9,255.00	8,888.10	7,826.09	41.85	39.10	0.00	-66.62	1,029.60	1,431.96	1,396.71	35.24	40.630	
10,400.00	9,255.00	8,988.02	7,829.93	43.28	40.73	0.00	-66.67	1,129.45	1,428.12	1,392.00	36.13	39.533	
10,500.00	9,255.00	9,087.95	7,833.76	44.78	42.42	0.00	-66.72	1,229.30	1,424.28	1,387.23	37.05	38.441	
10,600.00	9,255.00	9,187.87	7,837.60	46.35	44.17	0.00	-66.77	1,329.15	1,420.45	1,382.43	38.02	37.361	
10,700.00	9,255.00	9,287.80	7,841.43	47.98	45.96	0.00	-66.82	1,429.01	1,416.61	1,377.58	39.03	36.299	
10,800.00	9,255.00	9,387.73	7,845.26	49.66	47.80	0.00	-66.86	1,528.86	1,412.77	1,372.71	40.07	35.259	
10,900.00	9,255.00	9,487.65	7,849.10	51.40	49.68	0.00	-66.91	1,628.71	1,408.94	1,367.79	41.14	34.244	
11,000.00	9,255.00	9,587.58	7,852.93	53.17	51.60	0.00	-66.96	1,728.57	1,405.10	1,362.85	42.25	33.257	
11,100.00	9,255.00	9,687.51	7,856.76	54.99	53.54	0.00	-67.01	1,828.42	1,401.26	1,357.88	43.38	32.299	
11,200.00	9,255.00	9,787.43	7,860.60	56.84	55.51	0.00	-67.06	1,928.27	1,397.43	1,352.88	44.54	31.372	
11,300.00	9,255.00	9,865.39	7,862.61	58.72	57.07	0.00	-67.10	2,006.20	1,394.75	1,349.13	45.62	30.575	
11,400.00	9,255.00	9,965.36	7,864.87	60.64	59.08	0.00	-67.14	2,106.15	1,392.49	1,345.66	46.82	29.739	
11,500.00	9,255.00	10,065.34	7,867.13	62.58	61.11	0.00	-67.19	2,206.10	1,390.22	1,342.17	48.05	28.933	
11,600.00	9,255.00	10,165.31	7,869.39	64.54	63.17	0.00	-67.24	2,306.05	1,387.96	1,338.67	49.30	28.156	
11,700.00	9,255.00	10,265.29	7,871.65	66.53	65.23	0.00	-67.29	2,406.00	1,385.70	1,335.14	50.56	27.407	
11,800.00	9,255.00	10,365.26	7,873.91	68.54	67.32	0.00	-67.34	2,505.95	1,383.44	1,331.60	51.84	26.687	
11,900.00	9,255.00	10,465.24	7,876.17	70.56	69.42	0.00	-67.39	2,605.89	1,381.18	1,328.04	53.14	25.994	
12,000.00	9,255.00	10,565.21	7,878.44	72.60	71.53	0.00	-67.43	2,705.84	1,378.92	1,324.47	54.44	25.327	
12,100.00	9,255.00	10,665.18	7,880.70	74.66	73.65	0.00	-67.48	2,805.79	1,376.65	1,320.89	55.77	24.685	
12,200.00	9,255.00	10,765.16	7,882.96	76.74	75.79	0.00	-67.53	2,905.74	1,374.39	1,317.29	57.10	24.068	
12,300.00	9,255.00	10,865.13	7,885.22	78.82	77.93	0.00	-67.58	3,005.69	1,372.13	1,313.68	58.45	23.475	
12,400.00	9,255.00	10,965.11	7,887.48	80.92	80.09	0.00	-67.63	3,105.64	1,369.87	1,310.06	59.81	22.904	
12,500.00	9,255.00	11,065.08	7,889.74	83.03	82.25	0.00	-67.68	3,205.59	1,367.61	1,306.43	61.18	22.355	
12,600.00	9,255.00	11,165.06	7,892.00	85.15	84.42	0.00	-67.72	3,305.54	1,365.35	1,302.79	62.55	21.827	
12,700.00	9,255.00	11,265.03	7,894.26	87.28	86.59	0.00	-67.77	3,405.49	1,363.08	1,299.15	63.94	21.318	
12,800.00	9,255.00	11,365.01	7,896.52	89.41	88.78	0.00	-67.82	3,505.43	1,360.82	1,295.49	65.33	20.829	
12,900.00	9,255.00	11,464.98	7,898.78	91.56	90.97	0.00	-67.87	3,605.38	1,358.56	1,291.83	66.74	20.357	
13,000.00	9,255.00	11,564.95	7,901.05	93.71	93.16	0.00	-67.92	3,705.33	1,356.30	1,288.16	68.14	19.903	
13,100.00	9,255.00	11,664.93	7,903.31	95.88	95.36	0.00	-67.97	3,805.28	1,354.04	1,284.48	69.56	19.466	
13,200.00	9,255.00	11,764.90	7,905.57	98.04	97.57	0.00	-68.01	3,905.23	1,351.78	1,280.79	70.98	19.044	
13,300.00	9,255.00	11,864.88	7,907.83	100.22	99.78	0.00	-68.06	4,005.18	1,349.52	1,277.10	72.41	18.637	
13,400.00	9,255.00	11,964.85	7,910.09	102.40	101.99	0.00	-68.11	4,105.13	1,347.25	1,273.41	73.85	18.244	
13,500.00	9,255.00	12,064.83	7,912.35	104.58	104.21	0.00	-68.16	4,205.08	1,344.99	1,269.71	75.28	17.865	
13,600.00	9,255.00	12,164.80	7,914.61	106.77	106.43	0.00	-68.21	4,305.03	1,342.73	1,266.00	76.73	17.500	
13,700.00	9,255.00	12,264.78	7,916.87	108.97	108.66	0.00	-68.26	4,404.97	1,340.47	1,262.29	78.18	17.146	
13,800.00	9,255.00	12,364.75	7,919.13	111.17	110.89	0.00	-68.30	4,504.92	1,338.21	1,258.58	79.63	16.805	
13,900.00	9,255.00	12,464.72	7,921.40	113.38	113.12	0.00	-68.35	4,604.87	1,335.95	1,254.86	81.09	16.475	
14,000.00	9,255.00	12,564.70	7,923.66	115.58	115.36	0.00	-68.40	4,704.82	1,333.68	1,251.13	82.55	16.156	
14,100.00	9,255.00	12,664.67	7,925.92	117.80	117.59	0.00	-68.45	4,804.77	1,331.42	1,247.40	84.02	15.847	
14,200.00	9,255.00	12,764.65	7,928.18	120.01	119.83	0.00	-68.50	4,904.72	1,329.16	1,243.67	85.49	15.548	
14,300.00	9,255.00	12,864.62	7,930.44	122.23	122.08	0.00	-68.55	5,004.67	1,326.90	1,239.94	86.96	15.259	
14,400.00	9,255.00	12,964.60	7,932.70	124.46	124.32	0.00	-68.59	5,104.62	1,324.64	1,236.20	88.44	14.978	
14,500.00	9,255.00	13,064.57	7,934.96	126.68	126.57	0.00	-68.64	5,204.56	1,322.38	1,232.46	89.92	14.707	
14,600.00	9,255.00	13,164.55	7,937.22	128.91	128.82	0.00	-68.69	5,304.51	1,320.11	1,228.72	91.40	14.443	
14,700.00	9,255.00	13,264.52	7,939.48	131.14	131.07	0.00	-68.74	5,404.46	1,317.85	1,224.97	92.88	14.188	
14,800.00	9,255.00	13,364.49	7,941.74	133.38	133.33	0.00	-68.79	5,504.41	1,315.59	1,221.22	94.37	13.940	
14,900.00	9,255.00	13,464.47	7,944.01	135.61	135.58	0.00	-68.84	5,604.36	1,313.33	1,217.47	95.86	13.700	
15,000.00	9,255.00	13,564.44	7,946.27	137.85	137.84	0.00	-68.88	5,704.31	1,311.07	1,213.71	97.36	13.467	
15,100.00	9,255.00	13,664.42	7,948.53	140.09	140.10	0.00	-68.93	5,804.26	1,308.81	1,209.96	98.85	13.240	
15,200.00	9,255.00	13,764.39	7,950.79	142.34	142.36	0.00	-68.98	5,904.21	1,306.54	1,206.20	100.35	13.020	
15,300.00	9,255.00	13,864.37	7,953.05	144.58	144.62	0.00	-69.03	6,004.16	1,304.28	1,202.43	101.85	12.806	

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 #205H
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:	#205H	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
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
15,400.00	9,255.00	13,964.34	7,955.31	146.83	146.89	0.00	-69.08	6,104.10	1,302.02	1,198.67	103.35	12.598	
15,500.00	9,255.00	14,064.32	7,957.57	149.08	149.15	0.00	-69.13	6,204.05	1,299.76	1,194.91	104.85	12.396	
15,600.00	9,255.00	14,164.29	7,959.83	151.33	151.42	0.00	-69.17	6,304.00	1,297.50	1,191.14	106.36	12.199	
15,700.00	9,255.00	14,264.26	7,962.09	153.58	153.68	0.00	-69.22	6,403.95	1,295.24	1,187.37	107.87	12.008	
15,800.00	9,255.00	14,364.24	7,964.36	155.84	155.95	0.00	-69.27	6,503.90	1,292.97	1,183.60	109.38	11.821	
15,900.00	9,255.00	14,464.21	7,966.62	158.09	158.22	0.00	-69.32	6,603.85	1,290.71	1,179.83	110.89	11.640	
16,000.00	9,255.00	14,564.19	7,968.88	160.35	160.49	0.00	-69.37	6,703.80	1,288.45	1,176.05	112.40	11.463	
16,100.00	9,255.00	14,664.16	7,971.14	162.61	162.77	0.00	-69.42	6,803.75	1,286.19	1,172.28	113.91	11.291	
16,200.00	9,255.00	14,764.14	7,973.40	164.87	165.04	0.00	-69.46	6,903.70	1,283.93	1,168.50	115.43	11.123	
16,300.00	9,255.00	14,864.16	7,975.68	167.13	167.26	0.00	-69.51	7,003.65	1,281.80	1,164.86	116.94	10.961	
16,400.00	9,255.00	14,964.14	7,977.94	169.40	169.54	0.00	-69.56	7,103.60	1,279.70	1,161.25	118.46	10.803	
16,500.00	9,255.00	15,064.12	7,979.67	171.66	171.81	0.00	-69.61	7,203.55	1,277.61	1,157.64	119.98	10.649	
16,600.00	9,255.00	15,164.10	7,981.76	173.93	174.09	0.00	-69.66	7,303.50	1,275.52	1,154.02	121.50	10.498	
16,700.00	9,255.00	15,264.08	7,983.86	176.19	176.37	0.00	-69.70	7,403.45	1,273.42	1,150.40	123.02	10.351	
16,800.00	9,255.00	15,364.06	7,985.95	178.46	178.65	0.00	-69.75	7,503.40	1,271.33	1,146.79	124.54	10.208	
16,900.00	9,255.00	15,464.04	7,988.04	180.73	180.92	0.00	-69.80	7,603.35	1,269.23	1,143.17	126.07	10.068	
17,000.00	9,255.00	15,564.02	7,990.14	183.00	183.20	0.00	-69.85	7,703.30	1,267.14	1,139.55	127.59	9.931	
17,100.00	9,255.00	15,664.00	7,992.23	185.27	185.48	0.00	-69.90	7,803.25	1,265.05	1,135.93	129.12	9.798	
17,200.00	9,255.00	15,764.00	7,994.32	187.54	187.77	0.00	-69.95	7,903.20	1,262.95	1,132.31	130.65	9.667	
17,300.00	9,255.00	15,864.00	7,996.42	189.81	190.05	0.00	-69.99	8,003.15	1,260.86	1,128.68	132.17	9.539	
17,400.00	9,255.00	15,964.00	7,998.51	192.09	192.33	0.00	-70.04	8,103.10	1,258.76	1,125.06	133.70	9.415	
17,500.00	9,255.00	16,064.00	8,000.61	194.36	194.61	0.00	-70.09	8,203.05	1,256.67	1,121.44	135.23	9.293	
17,600.00	9,255.00	16,164.00	8,002.70	196.64	196.90	0.00	-70.14	8,303.00	1,254.58	1,117.81	136.76	9.173	
17,700.00	9,255.00	16,264.00	8,004.79	198.91	199.18	0.00	-70.19	8,403.00	1,252.48	1,114.19	138.30	9.057	
17,800.00	9,255.00	16,364.00	8,006.89	201.19	201.47	0.00	-70.24	8,503.00	1,250.39	1,110.56	139.83	8.942	
17,900.00	9,255.00	16,464.00	8,008.98	203.47	203.75	0.00	-70.28	8,603.00	1,248.29	1,106.93	141.36	8.830	
18,000.00	9,255.00	16,564.00	8,011.07	205.74	206.04	0.00	-70.33	8,703.00	1,246.20	1,103.30	142.90	8.721	
18,100.00	9,255.00	16,664.00	8,013.17	208.02	208.32	0.00	-70.38	8,803.00	1,244.10	1,099.67	144.43	8.614	
18,200.00	9,255.00	16,764.00	8,015.26	210.30	210.61	0.00	-70.43	8,903.00	1,242.01	1,096.04	145.97	8.509	
18,300.00	9,255.00	16,864.00	8,017.36	212.58	212.90	0.00	-70.48	9,003.00	1,239.92	1,092.41	147.50	8.406	
18,400.00	9,255.00	16,964.00	8,019.45	214.86	215.18	0.00	-70.53	9,103.00	1,237.82	1,088.78	149.04	8.305	
18,500.00	9,255.00	17,064.00	8,021.54	217.14	217.47	0.00	-70.57	9,203.00	1,235.73	1,085.15	150.58	8.206	
18,600.00	9,255.00	17,164.00	8,023.64	219.43	219.76	0.00	-70.62	9,303.00	1,233.63	1,081.52	152.12	8.110	
18,700.00	9,255.00	17,264.00	8,025.73	221.71	222.05	0.00	-70.67	9,403.00	1,231.54	1,077.88	153.66	8.015	
18,800.00	9,255.00	17,364.00	8,027.82	223.99	224.34	0.00	-70.72	9,503.00	1,229.45	1,074.25	155.20	7.922	
18,900.00	9,255.00	17,464.00	8,029.92	226.28	226.63	0.00	-70.77	9,603.00	1,227.35	1,070.61	156.74	7.831	
19,000.00	9,255.00	17,564.00	8,032.01	228.56	228.92	0.00	-70.82	9,703.00	1,225.26	1,066.98	158.28	7.741	
19,100.00	9,255.00	17,664.00	8,034.10	230.84	231.21	0.00	-70.86	9,803.00	1,223.16	1,063.34	159.82	7.653	
19,200.00	9,255.00	17,764.00	8,036.20	233.13	233.50	0.00	-70.91	9,903.00	1,221.07	1,059.71	161.36	7.567	
19,300.00	9,255.00	17,864.00	8,038.29	235.41	235.79	0.00	-70.96	10,003.00	1,218.98	1,056.07	162.90	7.483	
19,400.00	9,255.00	17,964.00	8,040.01	237.67	237.67	0.00	-71.00	10,103.00	1,217.02	1,053.00	164.01	7.420	
19,407.34	9,255.00	17,943.14	8,040.01	236.98	237.67	0.00	-71.00	10,082.00	1,216.99	1,052.95	164.05	7.419	
19,407.34	9,255.00	17,943.14	8,040.01	236.98	237.67	0.00	-71.00	10,082.00	1,216.99	1,052.95	164.05	7.419	

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #205H
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:	#205H	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: 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	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	CC, ES	
900.00	899.98	901.98	901.98	2.99	3.00	-118.27	-700.00	-109.00	709.26	703.26	6.00	118.290		
1,000.00	999.84	1,001.84	1,001.84	3.35	3.36	-118.60	-700.00	-109.00	711.76	705.05	6.71	106.095		
1,100.00	1,099.45	1,081.23	1,081.22	3.71	3.63	-118.98	-701.12	-109.27	717.41	710.07	7.34	97.775		
1,200.00	1,198.72	1,160.36	1,160.28	4.07	3.89	-119.49	-704.36	-110.05	727.54	719.58	7.96	91.405		
1,300.00	1,297.86	1,238.92	1,238.64	4.44	4.16	-120.14	-709.68	-111.32	740.99	732.42	8.57	86.418		
1,400.00	1,397.01	1,316.89	1,316.25	4.82	4.42	-120.74	-717.03	-113.08	757.25	748.07	9.19	82.439		
1,500.00	1,496.15	1,404.62	1,403.33	5.20	4.72	-121.37	-727.33	-115.55	775.93	766.09	9.84	78.856		
1,600.00	1,595.30	1,502.36	1,500.32	5.58	5.06	-122.04	-739.08	-118.37	795.03	784.49	10.54	75.402		
1,700.00	1,694.44	1,600.10	1,597.31	5.96	5.41	-122.68	-750.84	-121.19	814.24	802.98	11.25	72.353		
1,800.00	1,793.59	1,702.16	1,694.30	6.35	5.78	-123.29	-762.59	-124.01	833.53	821.55	11.98	69.562		
1,900.00	1,892.74	1,795.58	1,791.29	6.74	6.13	-123.87	-774.34	-126.82	852.92	840.23	12.68	67.240		
2,000.00	1,991.88	1,906.68	1,888.28	7.13	6.54	-124.43	-786.10	-129.64	872.38	858.93	13.45	64.851		
2,100.00	2,091.03	2,008.94	1,985.27	7.52	6.93	-124.96	-797.85	-132.46	891.93	877.74	14.19	62.851		
2,200.00	2,190.17	2,088.80	2,082.26	7.91	7.23	-125.47	-809.60	-135.28	911.54	896.69	14.85	61.375		
2,300.00	2,289.32	2,186.54	2,179.25	8.30	7.60	-125.96	-821.36	-138.10	931.22	915.64	15.58	59.777		
2,400.00	2,388.46	2,284.28	2,276.24	8.69	7.97	-126.42	-833.11	-140.92	950.96	934.66	16.31	58.319		
2,500.00	2,487.61	2,382.02	2,373.23	9.08	8.35	-126.87	-844.86	-143.73	970.76	953.73	17.04	56.985		
2,600.00	2,586.75	2,479.76	2,470.22	9.48	8.72	-127.30	-856.62	-146.55	990.62	972.85	17.77	55.761		
2,700.00	2,685.90	2,577.50	2,567.21	9.87	9.10	-127.72	-868.37	-149.37	1,010.53	992.03	18.50	54.632		
2,800.00	2,785.04	2,675.24	2,664.20	10.27	9.48	-128.11	-880.12	-152.19	1,030.49	1,011.26	19.23	53.590		
2,900.00	2,884.19	2,772.98	2,761.19	10.66	9.86	-128.50	-891.88	-155.01	1,050.49	1,030.53	19.96	52.624		
3,000.00	2,983.34	2,870.73	2,858.18	11.06	10.24	-128.87	-903.63	-157.82	1,070.54	1,049.84	20.70	51.727		
3,100.00	3,082.48	2,968.47	2,955.17	11.45	10.62	-129.22	-915.39	-160.64	1,090.62	1,069.19	21.43	50.892		
3,200.00	3,181.63	3,066.21	3,052.16	11.85	11.00	-129.56	-927.14	-163.46	1,110.75	1,088.59	22.16	50.113		
3,300.00	3,280.77	3,163.95	3,149.16	12.24	11.39	-129.91	-938.89	-166.28	1,130.91	1,108.01	22.90	49.384		
3,400.00	3,380.14	3,262.00	3,246.46	12.63	11.77	-130.45	-950.68	-169.11	1,149.91	1,126.27	23.63	48.660		
3,500.00	3,479.84	3,360.56	3,344.26	13.00	12.16	-130.81	-962.54	-171.95	1,166.68	1,142.33	24.35	47.905		
3,600.00	3,579.75	3,459.49	3,442.43	13.36	12.55	-131.01	-974.43	-174.80	1,181.21	1,156.14	25.07	47.118		
3,700.00	3,679.74	3,558.68	3,540.85	13.70	12.94	176.02	-986.36	-177.66	1,193.57	1,167.79	25.77	46.308		
3,800.00	3,779.74	3,657.91	3,639.32	14.03	13.33	176.19	-998.29	-180.52	1,205.38	1,178.90	26.48	45.523		
3,900.00	3,879.74	3,757.14	3,737.80	14.37	13.72	176.37	-1,010.23	-183.38	1,217.20	1,190.01	27.18	44.777		
4,000.00	3,979.74	3,856.37	3,836.27	14.71	14.11	176.54	-1,022.16	-186.24	1,229.03	1,201.14	27.89	44.068		
4,100.00	4,079.74	3,955.61	3,934.74	15.04	14.50	176.70	-1,034.09	-189.10	1,240.87	1,212.28	28.60	43.393		
4,200.00	4,179.74	4,054.84	4,033.21	15.38	14.89	176.86	-1,046.02	-191.96	1,252.72	1,223.42	29.30	42.750		
4,300.00	4,279.74	4,154.07	4,131.68	15.72	15.28	177.02	-1,057.96	-194.83	1,264.59	1,234.57	30.01	42.136		
4,400.00	4,379.74	4,253.30	4,230.15	16.07	15.68	177.18	-1,069.89	-197.69	1,276.46	1,245.74	30.72	41.551		
4,500.00	4,479.74	4,352.54	4,328.62	16.41	16.07	177.34	-1,081.82	-200.55	1,288.34	1,256.91	31.43	40.991		
4,600.00	4,579.74	4,451.77	4,427.09	16.75	16.46	177.49	-1,093.76	-203.41	1,300.23	1,268.09	32.14	40.455		
4,700.00	4,679.74	4,551.00	4,525.56	17.09	16.85	177.64	-1,105.69	-206.27	1,312.13	1,279.27	32.85	39.942		
4,800.00	4,779.74	4,650.23	4,624.03	17.44	17.25	177.78	-1,117.62	-209.13	1,324.03	1,290.47	33.56	39.451		
4,900.00	4,879.74	4,749.47	4,722.50	17.78	17.64	177.93	-1,129.55	-211.99	1,335.95	1,301.67	34.27	38.979		
5,000.00	4,979.74	4,848.70	4,820.97	18.13	18.03	178.07	-1,141.49	-214.85	1,347.87	1,312.89	34.99	38.527		
5,100.00	5,079.74	4,947.93	4,919.44	18.47	18.43	178.21	-1,153.42	-217.71	1,359.80	1,324.11	35.70	38.092		

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 #205H
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:	#205H	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: 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)			
5,200.00	5,179.74	5,047.16	5,017.92	18.82	18.82	178.34	-1,165.35	-220.58	1,371.74	1,335.33	36.41	37.674	
5,300.00	5,279.74	5,146.40	5,116.39	19.17	19.22	178.47	-1,177.29	-223.44	1,383.69	1,346.57	37.12	37.272	
5,400.00	5,379.74	5,245.63	5,214.86	19.51	19.61	178.61	-1,189.22	-226.30	1,395.64	1,357.81	37.84	36.885	
5,500.00	5,479.74	5,344.86	5,313.33	19.86	20.00	178.74	-1,201.15	-229.16	1,407.60	1,369.05	38.55	36.513	
5,600.00	5,579.74	5,444.09	5,411.80	20.21	20.40	178.86	-1,213.09	-232.02	1,419.57	1,380.31	39.27	36.153	
5,700.00	5,679.74	5,543.32	5,510.27	20.56	20.79	178.99	-1,225.02	-234.88	1,431.55	1,391.57	39.98	35.807	
5,800.00	5,779.74	5,642.56	5,608.74	20.91	21.19	179.11	-1,236.95	-237.74	1,443.53	1,402.83	40.69	35.472	
5,900.00	5,879.74	5,741.79	5,707.21	21.25	21.58	179.23	-1,248.88	-240.60	1,455.52	1,414.11	41.41	35.149	
6,000.00	5,979.74	5,841.02	5,805.68	21.60	21.98	179.35	-1,260.82	-243.46	1,467.51	1,425.39	42.13	34.837	
6,100.00	6,079.74	5,940.25	5,904.15	21.95	22.37	179.47	-1,272.75	-246.33	1,479.51	1,436.67	42.84	34.535	
6,200.00	6,179.74	6,039.49	6,002.62	22.30	22.76	179.58	-1,284.68	-249.19	1,491.52	1,447.96	43.56	34.243	
6,300.00	6,279.74	6,138.72	6,101.09	22.65	23.16	179.69	-1,296.62	-252.05	1,503.53	1,459.26	44.27	33.961	
6,400.00	6,379.74	6,237.95	6,199.57	23.00	23.55	179.81	-1,308.55	-254.91	1,515.55	1,470.56	44.99	33.687	
6,500.00	6,479.74	6,337.18	6,298.04	23.35	23.95	179.92	-1,320.48	-257.77	1,527.57	1,481.87	45.71	33.422	
6,600.00	6,579.74	6,436.42	6,396.51	23.70	24.34	-179.98	-1,332.42	-260.63	1,539.60	1,493.18	46.42	33.165	
6,700.00	6,679.74	6,535.65	6,494.98	24.05	24.74	-179.87	-1,344.35	-263.49	1,551.63	1,504.49	47.14	32.916	
6,800.00	6,779.74	6,634.88	6,593.45	24.41	25.13	-179.77	-1,356.28	-266.35	1,563.67	1,515.82	47.86	32.675	
6,900.00	6,879.74	6,737.80	6,745.39	24.76	25.73	-179.62	-1,372.98	-270.36	1,574.92	1,526.06	48.86	32.233	
7,000.00	6,979.74	7,003.28	6,960.54	25.11	26.51	-179.53	-1,383.74	-272.94	1,579.93	1,529.90	50.03	31.582	
7,100.00	7,079.74	7,124.49	7,081.74	25.46	26.88	-179.53	-1,384.00	-273.00	1,580.05	1,529.29	50.76	31.128	
7,200.00	7,179.74	7,224.49	7,181.74	25.81	27.19	-179.53	-1,384.00	-273.00	1,580.05	1,528.62	51.44	30.718	
7,300.00	7,279.74	7,325.12	7,282.35	26.17	27.50	-179.56	-1,384.00	-272.06	1,580.05	1,527.93	52.12	30.318	
7,382.70	7,362.44	7,407.97	7,364.44	26.46	27.75	-179.95	-1,384.01	-261.37	1,580.01	1,527.34	52.67	29.997	
7,400.00	7,379.74	7,424.81	7,380.89	26.52	27.80	179.92	-1,384.01	-257.75	1,580.02	1,527.23	52.79	29.932	
7,500.00	7,479.74	7,517.03	7,468.57	26.87	28.05	178.89	-1,384.04	-229.51	1,580.39	1,526.96	53.42	29.583	
7,600.00	7,579.74	7,598.48	7,541.37	27.22	28.25	177.58	-1,384.07	-193.14	1,582.00	1,527.98	54.02	29.287	
7,700.00	7,679.74	7,668.26	7,599.12	27.58	28.39	176.16	-1,384.10	-154.05	1,585.81	1,531.25	54.56	29.066	
7,800.00	7,779.74	7,727.06	7,643.79	27.93	28.49	174.79	-1,384.14	-115.85	1,592.68	1,537.66	55.02	28.945	
7,900.00	7,879.74	7,776.30	7,678.03	28.28	28.57	173.52	-1,384.17	-80.48	1,603.33	1,547.93	55.40	28.943	
8,000.00	7,979.74	7,817.57	7,704.30	28.63	28.63	172.38	-1,384.19	-48.66	1,618.23	1,562.58	55.65	29.078	
8,100.00	8,079.74	7,850.00	7,723.29	28.99	28.67	171.45	-1,384.22	-22.38	1,637.69	1,581.93	55.76	29.368	
8,200.00	8,179.74	7,881.79	7,740.43	29.34	28.70	170.50	-1,384.24	4.38	1,661.87	1,606.09	55.78	29.792	
8,300.00	8,279.74	7,900.00	7,749.58	29.70	28.72	169.95	-1,384.25	20.13	1,690.82	1,635.21	55.61	30.405	
8,400.00	8,379.74	7,928.62	7,762.93	30.05	28.75	169.06	-1,384.28	45.44	1,724.39	1,668.95	55.44	31.105	
8,500.00	8,479.74	7,950.00	7,772.06	30.40	28.77	168.39	-1,384.29	64.77	1,762.51	1,707.39	55.12	31.973	
8,600.00	8,579.74	7,963.85	7,777.60	30.76	28.79	167.95	-1,384.30	77.47	1,804.97	1,750.27	54.70	33.000	
8,700.00	8,679.74	7,978.32	7,783.05	31.11	28.80	167.48	-1,384.32	90.87	1,851.53	1,797.31	54.22	34.148	
8,800.00	8,779.74	8,000.00	7,790.57	31.44	28.84	167.00	-1,384.33	111.20	1,898.15	1,844.42	53.73	35.326	
8,900.00	8,875.84	8,000.00	7,790.57	31.73	28.84	166.56	-1,384.33	111.20	1,939.68	1,886.69	52.99	36.604	
9,000.00	8,966.53	8,033.48	7,800.67	32.01	28.90	166.14	-1,384.36	143.11	1,974.66	1,922.14	52.52	37.600	
9,100.00	9,048.57	8,050.00	7,804.97	32.28	28.95	165.72	-1,384.38	159.07	2,002.42	1,950.53	51.89	38.586	
9,200.00	9,119.47	8,081.16	7,811.80	32.57	29.08	165.30	-1,384.40	189.47	2,021.95	1,970.51	51.45	39.301	
9,300.00	9,177.08	8,100.00	7,815.13	32.91	29.18	164.88	-1,384.42	208.01	2,032.81	1,981.82	50.99	39.863	
9,400.00	9,219.65	8,133.30	7,819.52	33.33	29.39	164.78	-1,384.45	241.02	2,034.46	1,983.66	50.81	40.044	
9,500.00	9,245.89	8,160.25	7,821.66	33.84	29.58	164.03	-1,384.47	267.88	2,026.86	1,976.10	50.76	39.932	
9,600.00	9,254.99	8,220.22	7,823.72	34.44	30.06	163.60	-1,384.52	327.81	2,009.62	1,958.48	51.15	39.292	
9,700.00	9,255.00	8,316.23	7,826.74	35.15	30.95	162.74	-1,384.61	423.77	1,988.10	1,936.12	51.98	38.246	
9,800.00	9,255.00	8,413.56	7,829.80	36.00	31.98	162.00	-1,384.69	521.05	1,970.20	1,917.14	53.05	37.138	
9,900.00	9,255.00	8,511.94	7,832.89	36.97	33.14	161.40	-1,384.78	619.39	1,955.88	1,901.53	54.35	35.987	
10,000.00	9,255.00	8,611.11	7,836.01	38.06	34.43	160.40	-1,384.86	718.51	1,945.13	1,889.25	55.87	34.813	
10,100.00	9,255.00	8,710.79	7,839.14	39.24	35.83	159.40	-1,384.95	818.14	1,937.94	1,880.32	57.62	33.636	
10,200.00	9,255.00	8,810.71	7,842.28	40.50	37.31	158.40	-1,385.03	918.01	1,934.28	1,874.71	59.57	32.472	

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 #205H
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:	#205H	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:
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		
10,300.00	9,255.00	8,910.66	7,845.42	41.85	38.88	43.05	-1,385.12	1,017.91	1,932.01	1,870.33	61.68	31.325		
10,400.00	9,255.00	9,010.61	7,848.57	43.28	40.52	43.11	-1,385.21	1,117.81	1,929.74	1,865.84	63.90	30.201		
10,500.00	9,255.00	9,110.56	7,851.71	44.78	42.22	43.17	-1,385.30	1,217.71	1,927.47	1,861.25	66.22	29.107		
10,600.00	9,255.00	9,210.51	7,854.85	46.35	43.97	43.24	-1,385.38	1,317.62	1,925.21	1,856.57	68.64	28.050		
10,700.00	9,255.00	9,301.56	7,857.66	47.98	45.61	43.30	-1,385.46	1,408.62	1,923.01	1,851.96	71.05	27.067		
10,800.00	9,255.00	9,398.17	7,859.85	49.66	47.39	43.34	-1,385.55	1,505.20	1,921.38	1,847.80	73.57	26.116		
10,900.00	9,255.00	9,498.14	7,862.12	51.40	49.27	43.39	-1,385.63	1,605.15	1,919.75	1,843.56	76.20	25.194		
11,000.00	9,255.00	9,601.88	7,864.39	53.17	51.26	43.44	-1,385.72	1,705.10	1,918.13	1,839.19	78.94	24.298		
11,100.00	9,255.00	9,701.91	7,866.65	54.99	53.21	43.49	-1,385.81	1,805.05	1,916.51	1,834.83	81.69	23.461		
11,200.00	9,255.00	9,801.94	7,868.92	56.84	55.19	43.53	-1,385.89	1,904.99	1,914.90	1,830.41	84.49	22.664		
11,300.00	9,255.00	9,898.04	7,871.19	58.72	57.11	43.58	-1,385.98	2,004.94	1,913.28	1,826.00	87.28	21.921		
11,400.00	9,255.00	9,998.01	7,873.46	60.64	59.13	43.63	-1,386.07	2,104.89	1,911.67	1,821.50	90.17	21.201		
11,500.00	9,255.00	10,102.01	7,875.72	62.58	61.25	43.68	-1,386.15	2,204.84	1,910.05	1,816.89	93.16	20.503		
11,600.00	9,255.00	10,202.04	7,877.99	64.54	63.32	43.72	-1,386.24	2,304.79	1,908.44	1,812.31	96.13	19.853		
11,700.00	9,255.00	10,302.06	7,880.26	66.53	65.40	43.77	-1,386.33	2,404.74	1,906.83	1,807.70	99.13	19.235		
11,800.00	9,255.00	10,397.91	7,882.52	68.54	67.40	43.82	-1,386.41	2,504.69	1,905.22	1,803.12	102.10	18.660		
11,900.00	9,255.00	10,497.88	7,884.79	70.56	69.51	43.87	-1,386.50	2,604.63	1,903.61	1,798.45	105.17	18.101		
12,000.00	9,255.00	10,602.14	7,887.06	72.60	71.72	43.92	-1,386.59	2,704.58	1,902.01	1,793.68	108.32	17.559		
12,100.00	9,255.00	10,702.17	7,889.32	74.66	73.85	43.96	-1,386.67	2,804.53	1,900.40	1,788.96	111.44	17.053		
12,200.00	9,255.00	10,802.19	7,891.59	76.74	75.99	44.01	-1,386.76	2,904.48	1,898.80	1,784.22	114.58	16.572		
12,300.00	9,255.00	10,897.78	7,893.86	78.82	78.04	44.06	-1,386.85	3,004.43	1,897.19	1,779.52	117.67	16.123		
12,400.00	9,255.00	10,997.76	7,896.12	80.92	80.20	44.11	-1,386.93	3,104.38	1,895.59	1,774.74	120.85	15.685		
12,500.00	9,255.00	11,102.27	7,898.39	83.03	82.46	44.16	-1,387.02	3,204.33	1,893.99	1,769.86	124.13	15.258		
12,600.00	9,255.00	11,202.30	7,900.66	85.15	84.64	44.21	-1,387.11	3,304.27	1,892.39	1,765.04	127.35	14.860		
12,700.00	9,255.00	11,302.32	7,902.92	87.28	86.82	44.26	-1,387.20	3,404.22	1,890.80	1,760.21	130.59	14.479		
12,800.00	9,255.00	11,397.65	7,905.19	89.41	88.91	44.30	-1,387.28	3,504.17	1,889.20	1,755.43	133.77	14.122		
12,900.00	9,255.00	11,497.63	7,907.46	91.56	91.10	44.35	-1,387.37	3,604.12	1,887.61	1,750.56	137.04	13.774		
13,000.00	9,255.00	11,602.40	7,909.73	93.71	93.40	44.40	-1,387.46	3,704.07	1,886.01	1,745.60	140.41	13.432		
13,100.00	9,255.00	11,702.42	7,911.99	95.88	95.61	44.45	-1,387.54	3,804.02	1,884.42	1,740.71	143.71	13.112		
13,200.00	9,255.00	11,797.55	7,914.26	98.04	97.71	44.50	-1,387.63	3,903.97	1,882.83	1,735.88	146.95	12.813		
13,300.00	9,255.00	11,902.48	7,916.53	100.22	100.03	44.55	-1,387.72	4,003.91	1,881.24	1,730.88	150.36	12.512		
13,400.00	9,255.00	12,002.50	7,918.79	102.40	102.25	44.60	-1,387.80	4,103.86	1,879.65	1,725.95	153.70	12.229		
13,500.00	9,255.00	12,102.53	7,921.06	104.58	104.47	44.65	-1,387.89	4,203.81	1,878.07	1,721.01	157.06	11.958		
13,600.00	9,255.00	12,202.55	7,923.33	106.77	106.70	44.70	-1,387.98	4,303.76	1,876.48	1,716.06	160.42	11.697		
13,700.00	9,255.00	12,297.42	7,925.59	108.97	108.81	44.75	-1,388.06	4,403.71	1,874.90	1,711.18	163.72	11.452		
13,800.00	9,255.00	12,397.40	7,927.86	111.17	111.05	44.80	-1,388.15	4,503.66	1,873.32	1,706.21	167.11	11.210		
13,900.00	9,255.00	12,502.63	7,930.13	113.38	113.40	44.85	-1,388.24	4,603.61	1,871.74	1,701.15	170.59	10.972		
14,000.00	9,255.00	12,602.66	7,932.39	115.58	115.64	44.90	-1,388.32	4,703.55	1,870.16	1,696.16	174.00	10.748		
14,100.00	9,255.00	12,702.68	7,934.66	117.80	117.88	44.95	-1,388.41	4,803.50	1,868.58	1,691.16	177.42	10.532		
14,200.00	9,255.00	12,797.29	7,936.93	120.01	120.00	45.00	-1,388.50	4,903.45	1,867.00	1,686.24	180.76	10.328		
14,300.00	9,255.00	12,897.27	7,939.20	122.23	122.25	45.05	-1,388.58	5,003.40	1,865.43	1,681.23	184.20	10.127		
14,400.00	9,255.00	12,997.24	7,941.46	124.46	124.49	45.10	-1,388.67	5,103.35	1,863.86	1,676.20	187.65	9.932		
14,500.00	9,255.00	13,097.22	7,943.73	126.68	126.74	45.15	-1,388.76	5,203.30	1,862.28	1,671.17	191.11	9.745		
14,600.00	9,255.00	13,202.81	7,946.00	128.91	129.12	45.20	-1,388.85	5,303.24	1,860.71	1,666.04	194.67	9.558		
14,700.00	9,255.00	13,302.84	7,948.26	131.14	131.38	45.25	-1,388.93	5,403.19	1,859.14	1,661.00	198.15	9.383		
14,800.00	9,255.00	13,397.14	7,950.53	133.38	133.50	45.30	-1,389.02	5,503.14	1,857.58	1,656.04	201.54	9.217		
14,900.00	9,255.00	13,502.89	7,952.80	135.61	135.89	45.35	-1,389.11	5,603.09	1,856.01	1,650.88	205.13	9.048		
15,000.00	9,255.00	13,602.91	7,955.06	137.85	138.15	45.40	-1,389.19	5,703.04	1,854.45	1,645.82	208.63	8.889		
15,100.00	9,255.00	13,702.94	7,957.33	140.09	140.41	45.45	-1,389.28	5,802.99	1,852.88	1,640.74	212.14	8.734		
15,200.00	9,255.00	13,797.04	7,959.60	142.34	142.54	45.50	-1,389.37	5,902.94	1,851.32	1,635.77	215.55	8.589		
15,300.00	9,255.00	13,897.01	7,961.86	144.58	144.81	45.55	-1,389.45	6,002.88	1,849.76	1,630.68	219.08	8.443		
15,400.00	9,255.00	13,996.98	7,964.13	146.83	147.07	45.60	-1,389.54	6,102.83	1,848.20	1,625.59	222.61	8.302		

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 #205H
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:	#205H	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:	0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		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)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,500.00	9,255.00	14,096.96	7,966.40	149.08	149.34	45.66	-1,389.63	6,202.78	1,846.64	1,620.49	226.15	8.166		
15,600.00	9,255.00	14,203.07	7,968.66	151.33	151.74	45.71	-1,389.71	6,302.73	1,845.09	1,615.29	229.80	8.029		
15,700.00	9,255.00	14,296.91	7,970.93	153.58	153.87	45.76	-1,389.80	6,402.68	1,843.53	1,610.28	233.25	7.904		
15,800.00	9,255.00	14,396.88	7,973.20	155.84	156.14	45.81	-1,389.89	6,502.63	1,841.98	1,605.17	236.81	7.778		
15,900.00	9,255.00	14,503.14	7,975.47	158.09	158.56	45.86	-1,389.97	6,602.58	1,840.43	1,599.94	240.49	7.653		
16,000.00	9,255.00	14,596.83	7,977.73	160.35	160.69	45.91	-1,390.06	6,702.52	1,838.88	1,594.92	243.96	7.538		
16,100.00	9,255.00	14,703.20	7,980.00	162.61	163.10	45.96	-1,390.15	6,802.47	1,837.33	1,589.68	247.65	7.419		
16,200.00	9,255.00	14,796.78	7,982.27	164.87	165.23	46.02	-1,390.23	6,902.42	1,835.78	1,584.65	251.13	7.310		
16,300.00	9,255.00	14,896.75	7,984.53	167.13	167.51	46.07	-1,390.32	7,002.37	1,834.24	1,579.51	254.73	7.201		
16,400.00	9,255.00	15,003.27	7,986.80	169.40	169.93	46.12	-1,390.41	7,102.32	1,832.69	1,574.25	258.44	7.091		
16,500.00	9,255.00	15,096.70	7,989.07	171.66	172.06	46.17	-1,390.50	7,202.27	1,831.15	1,569.21	261.94	6.991		
16,600.00	9,255.00	15,203.32	7,991.33	173.93	174.49	46.22	-1,390.58	7,302.22	1,829.61	1,563.94	265.67	6.887		
16,700.00	9,255.00	15,296.65	7,993.60	176.19	176.62	46.28	-1,390.67	7,402.16	1,828.07	1,558.89	269.18	6.791		
16,800.00	9,255.00	15,396.62	7,995.87	178.46	178.89	46.33	-1,390.76	7,502.11	1,826.53	1,553.72	272.81	6.695		
16,900.00	9,255.00	15,503.40	7,998.13	180.73	181.33	46.38	-1,390.84	7,602.06	1,824.99	1,548.43	276.56	6.599		
17,000.00	9,255.00	15,603.43	8,000.40	183.00	183.61	46.43	-1,390.93	7,702.01	1,823.46	1,543.25	280.21	6.508		
17,100.00	9,255.00	15,703.45	8,002.67	185.27	185.89	46.48	-1,391.02	7,801.96	1,821.93	1,538.07	283.86	6.418		
17,200.00	9,255.00	15,803.48	8,004.93	187.54	188.18	46.54	-1,391.10	7,901.91	1,820.39	1,532.88	287.51	6.331		
17,300.00	9,255.00	15,903.50	8,007.20	189.81	190.46	46.59	-1,391.19	8,001.86	1,818.86	1,527.69	291.18	6.247		
17,400.00	9,255.00	16,003.53	8,009.47	192.09	192.74	46.64	-1,391.28	8,101.80	1,817.34	1,522.49	294.85	6.164		
17,500.00	9,255.00	16,103.56	8,011.74	194.36	195.03	46.70	-1,391.36	8,201.75	1,815.81	1,517.29	298.52	6.083		
17,600.00	9,255.00	16,203.58	8,014.00	196.64	197.31	46.75	-1,391.45	8,301.70	1,814.28	1,512.08	302.20	6.004		
17,700.00	9,255.00	16,296.39	8,016.27	198.91	199.44	46.80	-1,391.54	8,401.65	1,812.76	1,506.99	305.77	5.929		
17,800.00	9,255.00	16,403.63	8,018.54	201.19	201.89	46.86	-1,391.62	8,501.60	1,811.24	1,501.65	309.59	5.851		
17,900.00	9,255.00	16,503.66	8,020.80	203.47	204.17	46.91	-1,391.71	8,601.55	1,809.71	1,496.43	313.29	5.777		
18,000.00	9,255.00	16,603.68	8,023.07	205.74	206.46	46.96	-1,391.80	8,701.50	1,808.19	1,491.20	316.99	5.704		
18,100.00	9,255.00	16,703.71	8,025.34	208.02	208.75	47.01	-1,391.88	8,801.44	1,806.68	1,485.97	320.70	5.633		
18,200.00	9,255.00	16,796.26	8,027.60	210.30	210.87	47.07	-1,391.97	8,901.39	1,805.16	1,480.87	324.29	5.566		
18,300.00	9,255.00	16,903.76	8,029.87	212.58	213.33	47.12	-1,392.06	9,001.34	1,803.65	1,475.50	328.15	5.496		
18,400.00	9,255.00	17,003.79	8,032.14	214.86	215.62	47.18	-1,392.15	9,101.29	1,802.13	1,470.25	331.88	5.430		
18,500.00	9,255.00	17,103.81	8,034.40	217.14	217.91	47.23	-1,392.23	9,201.24	1,800.62	1,465.01	335.62	5.365		
18,600.00	9,255.00	17,203.84	8,036.67	219.43	220.20	47.28	-1,392.32	9,301.19	1,799.11	1,459.75	339.36	5.302		
18,700.00	9,255.00	17,303.86	8,038.94	221.71	222.49	47.34	-1,392.41	9,401.14	1,797.60	1,454.50	343.11	5.239		
18,800.00	9,255.00	17,403.89	8,041.21	223.99	224.78	47.39	-1,392.49	9,501.08	1,796.09	1,449.23	346.86	5.178		
18,900.00	9,255.00	17,503.92	8,043.47	226.28	227.07	47.45	-1,392.58	9,601.03	1,794.59	1,443.97	350.62	5.118		
19,000.00	9,255.00	17,603.94	8,045.74	228.56	229.36	47.50	-1,392.67	9,700.98	1,793.09	1,438.70	354.39	5.060		
19,100.00	9,255.00	17,703.97	8,048.01	230.84	231.65	47.55	-1,392.75	9,800.93	1,791.58	1,433.42	358.16	5.002		
19,200.00	9,255.00	17,796.01	8,050.27	233.13	233.76	47.61	-1,392.84	9,900.88	1,790.08	1,428.29	361.80	4.948		
19,300.00	9,255.00	17,895.98	8,052.54	235.41	236.05	47.66	-1,392.93	10,000.83	1,788.58	1,423.01	365.58	4.892		
19,400.00	9,255.00	17,980.18	8,054.45	236.87	237.98	47.71	-1,393.00	10,085.00	1,787.16	1,418.65	368.51	4.850		
19,407.34	9,255.00	17,980.18	8,054.45	236.98	237.98	47.71	-1,393.00	10,085.00	1,787.13	1,418.50	368.63	4.848 SF		

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #205H
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:	#205H	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										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		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	-173.28	-670.00	-79.00	674.64		
100.00	100.00	102.00	102.00	0.13	0.14	-173.28	-670.00	-79.00	674.64	674.38	0.26 2,560.533
200.00	200.00	202.00	202.00	0.49	0.49	-173.28	-670.00	-79.00	674.64	673.66	0.98 688.115
300.00	300.00	302.00	302.00	0.85	0.85	-173.28	-670.00	-79.00	674.64	672.94	1.70 397.464
400.00	400.00	402.00	402.00	1.20	1.21	-173.28	-670.00	-79.00	674.64	672.23	2.41 279.435
500.00	500.00	502.00	502.00	1.56	1.57	-173.28	-670.00	-79.00	674.64	671.51	3.13 215.454
600.00	600.00	602.00	602.00	1.92	1.93	-173.28	-670.00	-79.00	674.64	670.79	3.85 175.314
700.00	700.00	702.00	702.00	2.28	2.29	-173.28	-670.00	-79.00	674.64	670.08	4.57 147.781
800.00	800.00	802.00	802.00	2.64	2.64	-173.28	-670.00	-79.00	674.64	669.36	5.28 127.723 CC, ES
900.00	899.98	901.98	901.98	2.99	3.00	-120.40	-670.00	-79.00	675.52	669.53	6.00 112.663
1,000.00	999.84	1,001.89	1,001.89	3.35	3.36	-120.73	-670.00	-79.00	678.19	671.48	6.71 101.090
1,100.00	1,099.45	1,103.82	1,103.79	3.71	3.72	-121.46	-670.00	-77.12	682.51	675.09	7.42 91.928
1,200.00	1,198.72	1,202.60	1,202.51	4.07	4.06	-122.52	-670.00	-73.67	688.65	680.52	8.13 84.711
1,300.00	1,297.86	1,301.32	1,301.18	4.44	4.40	-123.69	-670.00	-70.23	695.59	686.75	8.84 78.687
1,400.00	1,397.01	1,400.04	1,399.84	4.82	4.75	-124.85	-670.00	-66.78	702.82	693.27	9.56 73.552
1,500.00	1,496.15	1,501.24	1,498.50	5.20	5.10	-125.98	-670.00	-63.34	710.34	700.06	10.28 69.076
1,600.00	1,595.30	1,602.52	1,597.16	5.58	5.46	-127.09	-670.00	-59.89	718.14	707.12	11.01 65.198
1,700.00	1,694.44	1,703.79	1,695.82	5.96	5.82	-128.17	-670.00	-56.45	726.20	714.45	11.75 61.815
1,800.00	1,793.59	1,805.07	1,794.48	6.35	6.18	-129.23	-670.00	-53.00	734.52	722.03	12.48 58.844
1,900.00	1,892.74	1,906.35	1,893.14	6.74	6.53	-130.27	-670.00	-49.56	743.08	729.86	13.22 56.217
2,000.00	1,991.88	2,007.63	1,991.81	7.13	6.90	-131.28	-670.00	-46.11	751.89	737.93	13.95 53.882
2,100.00	2,091.03	2,108.91	2,090.47	7.52	7.26	-132.27	-670.00	-42.67	760.93	746.24	14.69 51.795
2,200.00	2,190.17	2,189.81	2,189.13	7.91	7.55	-133.24	-670.00	-39.22	770.19	754.84	15.36 50.157
2,300.00	2,289.32	2,275.04	2,274.31	8.30	7.84	-134.00	-670.73	-36.88	780.43	764.41	16.02 48.713
2,400.00	2,388.46	2,358.61	2,357.84	8.69	8.13	-134.60	-673.29	-36.17	792.73	776.06	16.67 47.565
2,500.00	2,487.61	2,442.06	2,441.17	9.08	8.41	-135.05	-677.70	-37.06	807.02	789.72	17.30 46.648
2,600.00	2,586.75	2,525.26	2,524.10	9.48	8.69	-135.36	-683.91	-39.53	823.22	805.30	17.93 45.925
2,700.00	2,685.90	2,622.19	2,620.57	9.87	9.01	-135.61	-692.40	-43.49	840.54	821.92	18.62 45.140
2,800.00	2,785.04	2,720.60	2,718.52	10.27	9.34	-135.86	-701.04	-47.52	857.89	838.56	19.33 44.387
2,900.00	2,884.19	2,819.02	2,816.48	10.66	9.68	-136.10	-709.67	-51.55	875.25	855.22	20.04 43.683
3,000.00	2,983.34	2,917.44	2,914.43	11.06	10.01	-136.32	-718.30	-55.58	892.63	871.88	20.75 43.023
3,100.00	3,082.48	3,015.86	3,012.39	11.45	10.35	-136.54	-726.94	-59.61	910.02	888.56	21.46 42.403
3,200.00	3,181.63	3,114.27	3,110.34	11.85	10.70	-136.76	-735.57	-63.64	927.42	905.24	22.18 41.819
3,300.00	3,280.77	3,212.69	3,208.30	12.24	11.04	-136.97	-744.21	-67.67	944.83	921.94	22.89 41.270
3,400.00	3,380.14	3,311.37	3,306.52	12.63	11.39	-137.31	-752.86	-71.72	960.88	937.27	23.61 40.700
3,500.00	3,479.84	3,410.45	3,405.13	13.00	11.75	-137.47	-761.55	-75.77	974.39	950.07	24.32 40.069
3,600.00	3,579.75	3,509.80	3,504.01	13.36	12.10	-137.45	-770.27	-79.84	985.36	960.34	25.02 39.381
3,700.00	3,679.74	3,609.31	3,603.05	13.70	12.46	-137.45	-779.00	-83.92	993.89	968.18	25.72 38.649
3,800.00	3,779.74	3,708.84	3,702.11	14.03	12.82	-137.45	-787.73	-87.99	1,001.82	975.41	26.41 37.932
3,900.00	3,879.74	3,808.37	3,801.18	14.37	13.18	-137.45	-796.46	-92.07	1,009.79	982.68	27.11 37.251
4,000.00	3,979.74	3,907.90	3,900.24	14.71	13.55	-137.45	-805.19	-96.15	1,017.78	989.98	27.81 36.604
4,100.00	4,079.74	4,007.43	3,999.30	15.04	13.91	-137.45	-813.92	-100.22	1,025.80	997.30	28.50 35.988
4,200.00	4,179.74	4,106.96	4,098.36	15.38	14.28	-137.45	-822.66	-104.30	1,033.85	1,004.65	29.20 35.401
4,300.00	4,279.74	4,206.49	4,197.43	15.72	14.64	-137.45	-831.39	-108.38	1,041.93	1,012.03	29.91 34.841
4,400.00	4,379.74	4,306.02	4,296.49	16.07	15.01	-137.45	-840.12	-112.45	1,050.04	1,019.43	30.61 34.306
4,500.00	4,479.74	4,405.55	4,395.55	16.41	15.38	-137.45	-848.85	-116.53	1,058.17	1,026.86	31.31 33.795
4,600.00	4,579.74	4,505.08	4,494.62	16.75	15.74	-137.45	-857.58	-120.61	1,066.33	1,034.31	32.02 33.307
4,700.00	4,679.74	4,604.61	4,593.68	17.09	16.11	-137.45	-866.31	-124.68	1,074.51	1,041.79	32.72 32.839
4,800.00	4,779.74	4,704.14	4,692.74	17.44	16.48	-137.45	-875.04	-128.76	1,082.72	1,049.29	33.43 32.391
4,900.00	4,879.74	4,803.67	4,791.80	17.78	16.85	-137.45	-883.78	-132.84	1,090.95	1,056.82	34.13 31.962
5,000.00	4,979.74	4,903.20	4,890.87	18.13	17.22	-137.45	-892.51	-136.91	1,099.21	1,064.37	34.84 31.550
5,100.00	5,079.74	5,002.73	4,989.93	18.47	17.59	-137.45	-901.24	-140.99	1,107.49	1,071.94	35.55 31.155

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 #205H
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:	#205H	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		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)			
5,200.00	5,179.74	5,102.26	5,088.99	18.82	17.97	174.07	-909.97	-145.06	1,115.79	1,079.53	36.26	30.776
5,300.00	5,279.74	5,201.79	5,188.05	19.17	18.34	174.32	-918.70	-149.14	1,124.11	1,087.15	36.96	30.411
5,400.00	5,379.74	5,301.32	5,287.12	19.51	18.71	174.57	-927.43	-153.22	1,132.46	1,094.78	37.67	30.060
5,500.00	5,479.74	5,400.85	5,386.18	19.86	19.08	174.82	-936.16	-157.29	1,140.82	1,102.44	38.38	29.722
5,600.00	5,579.74	5,500.38	5,485.24	20.21	19.46	175.06	-944.90	-161.37	1,149.21	1,110.12	39.09	29.396
5,700.00	5,679.74	5,600.09	5,584.30	20.56	19.83	175.30	-953.63	-165.45	1,157.62	1,117.81	39.80	29.082
5,800.00	5,779.74	5,699.44	5,683.37	20.91	20.20	175.53	-962.36	-169.52	1,166.04	1,125.53	40.52	28.780
5,900.00	5,879.74	5,801.03	5,782.43	21.25	20.59	175.77	-971.09	-173.60	1,174.49	1,133.26	41.23	28.483
6,000.00	5,979.74	5,898.50	5,881.49	21.60	20.95	176.00	-979.82	-177.68	1,182.96	1,141.02	41.94	28.207
6,100.00	6,079.74	6,001.97	5,980.56	21.95	21.34	176.22	-988.55	-181.75	1,191.44	1,148.78	42.66	27.926
6,200.00	6,179.74	6,097.56	6,079.62	22.30	21.70	176.44	-997.29	-185.83	1,199.94	1,156.58	43.36	27.672
6,300.00	6,279.74	6,202.91	6,178.68	22.65	22.10	176.66	-1,006.02	-189.91	1,208.46	1,164.36	44.10	27.405
6,400.00	6,379.74	6,303.38	6,277.74	23.00	22.48	176.88	-1,014.75	-193.98	1,217.00	1,172.19	44.81	27.157
6,500.00	6,479.74	6,403.85	6,376.81	23.35	22.86	177.09	-1,023.48	-198.06	1,225.55	1,180.02	45.53	26.918
6,600.00	6,579.74	6,504.32	6,475.87	23.70	23.24	177.30	-1,032.21	-202.13	1,234.12	1,187.88	46.25	26.686
6,700.00	6,679.74	6,604.79	6,574.93	24.05	23.62	177.51	-1,040.94	-206.21	1,242.71	1,195.75	46.96	26.461
6,800.00	6,779.74	6,705.26	6,673.99	24.41	24.00	177.71	-1,049.67	-210.29	1,251.31	1,203.63	47.68	26.244
6,900.00	6,879.74	6,794.27	6,773.06	24.76	24.34	177.92	-1,058.41	-214.36	1,259.93	1,211.58	48.36	26.055
7,000.00	6,979.74	6,906.20	6,872.12	25.11	24.76	178.12	-1,067.14	-218.44	1,268.57	1,219.45	49.12	25.828
7,100.00	7,079.74	7,006.67	6,971.18	25.46	25.14	178.31	-1,075.87	-222.52	1,277.21	1,227.38	49.83	25.630
7,200.00	7,179.74	7,107.14	7,070.24	25.81	25.52	178.51	-1,084.60	-226.59	1,285.88	1,235.33	50.55	25.437
7,300.00	7,279.74	7,192.39	7,169.31	26.17	25.85	178.70	-1,093.33	-230.67	1,294.56	1,243.34	51.21	25.277
7,400.00	7,379.74	7,291.92	7,268.37	26.52	26.23	178.89	-1,102.06	-234.75	1,303.25	1,251.32	51.93	25.097
7,500.00	7,479.74	7,391.46	7,367.43	26.87	26.60	179.07	-1,110.79	-238.82	1,311.95	1,259.31	52.64	24.921
7,600.00	7,579.74	7,509.02	7,466.50	27.22	27.05	179.26	-1,119.53	-242.90	1,320.67	1,267.25	53.43	24.720
7,700.00	7,679.74	7,609.48	7,565.56	27.58	27.43	179.44	-1,128.26	-246.98	1,329.41	1,275.26	54.14	24.553
7,800.00	7,779.74	7,709.95	7,664.62	27.93	27.81	179.62	-1,136.99	-251.05	1,338.15	1,283.29	54.86	24.391
7,900.00	7,879.74	7,789.58	7,763.68	28.28	28.12	179.79	-1,145.72	-255.13	1,346.91	1,291.41	55.51	24.266
8,000.00	7,979.74	7,889.11	7,862.75	28.63	28.49	179.97	-1,154.45	-259.20	1,355.68	1,299.46	56.22	24.113
8,100.00	8,079.74	7,988.64	7,961.81	28.99	28.87	179.86	-1,163.18	-263.28	1,364.47	1,307.53	56.94	23.964
8,200.00	8,179.74	8,089.12	8,061.82	29.34	29.26	179.69	-1,172.00	-267.40	1,373.26	1,315.60	57.66	23.817
8,300.00	8,279.74	8,266.37	8,238.66	29.70	29.91	179.49	-1,182.47	-272.29	1,379.20	1,320.44	58.76	23.472
8,400.00	8,379.74	8,409.47	8,381.74	30.05	30.39	179.46	-1,184.00	-273.00	1,380.06	1,320.46	59.60	23.155
8,500.00	8,479.74	8,509.47	8,481.74	30.40	30.72	179.46	-1,184.00	-273.00	1,380.06	1,319.77	60.29	22.891
8,509.78	8,489.52	8,519.25	8,491.52	30.44	30.75	179.46	-1,184.00	-273.00	1,380.06	1,319.71	60.35	22.866
8,600.00	8,579.74	8,594.23	8,566.50	30.76	30.99	179.49	-1,184.17	-272.26	1,380.31	1,319.38	60.93	22.654
8,700.00	8,679.74	8,659.37	8,631.22	31.11	31.20	179.78	-1,185.74	-265.40	1,382.67	1,321.18	61.49	22.485
8,800.00	8,779.27	8,723.29	8,693.55	31.44	31.40	72.04	-1,188.86	-251.76	1,385.13	1,323.15	61.98	22.347
8,900.00	8,875.84	8,786.86	8,753.62	31.73	31.59	71.86	-1,193.49	-231.56	1,384.87	1,322.46	62.40	22.192
9,000.00	8,966.53	8,850.00	8,810.64	32.01	31.77	72.10	-1,199.53	-205.21	1,381.82	1,319.05	62.77	22.012
9,100.00	9,048.57	8,913.72	8,864.82	32.28	31.93	72.75	-1,207.00	-172.58	1,376.06	1,312.93	63.13	21.796
9,200.00	9,119.47	8,977.38	8,914.91	32.57	32.07	73.81	-1,215.76	-134.33	1,367.79	1,304.27	63.52	21.533
9,300.00	9,177.08	9,041.46	8,960.61	32.91	32.19	75.25	-1,225.78	-90.60	1,357.32	1,293.33	63.99	21.210
9,400.00	9,219.65	9,106.20	9,001.41	33.33	32.30	77.05	-1,236.99	-41.65	1,345.09	1,280.48	64.62	20.816
9,500.00	9,245.89	9,171.86	9,036.75	33.84	32.42	79.17	-1,249.33	12.26	1,331.65	1,266.23	65.42	20.355
9,600.00	9,254.99	9,238.80	9,066.02	34.44	32.60	81.55	-1,262.76	70.90	1,317.65	1,251.22	66.43	19.836
9,700.00	9,255.00	9,309.66	9,089.13	35.15	32.93	82.61	-1,277.71	136.15	1,307.27	1,239.64	67.63	19.330
9,792.61	9,255.00	9,380.07	9,103.75	35.93	33.35	83.25	-1,293.07	203.24	1,304.24	1,235.31	68.92	18.924
9,800.00	9,255.00	9,385.83	9,104.57	36.00	33.39	83.29	-1,294.35	208.80	1,304.25	1,235.23	69.03	18.895
9,900.00	9,255.00	9,464.87	9,110.00	36.97	33.94	83.53	-1,311.94	285.60	1,308.19	1,237.60	70.59	18.532
10,000.00	9,255.00	9,647.92	9,110.00	38.06	35.53	83.57	-1,347.07	465.22	1,314.95	1,241.80	73.15	17.976
10,100.00	9,255.00	9,831.84	9,110.00	39.24	37.51	83.60	-1,370.75	647.58	1,320.55	1,244.45	76.10	17.352

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 #205H
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:	#205H	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 (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (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
10,200.00	9,255.00	10,016.47	9,110.00	40.50	39.80	83.63	-1,382.70	831.79	1,324.93	1,245.58	79.35	16.698
10,300.00	9,255.00	10,158.10	9,110.00	41.85	41.76	83.63	-1,384.26	973.39	1,325.74	1,243.28	82.47	16.076
10,400.00	9,255.00	10,258.10	9,110.00	43.28	43.22	83.63	-1,384.36	1,073.39	1,325.79	1,240.42	85.38	15.529
10,500.00	9,255.00	10,358.10	9,110.00	44.78	44.76	83.63	-1,384.46	1,173.39	1,325.84	1,237.41	88.43	14.994
10,600.00	9,255.00	10,458.10	9,110.00	46.35	46.36	83.63	-1,384.55	1,273.39	1,325.89	1,234.28	91.61	14.474
10,700.00	9,255.00	10,558.10	9,110.00	47.98	48.02	83.63	-1,384.65	1,373.39	1,325.94	1,231.03	94.90	13.971
10,800.00	9,255.00	10,658.10	9,110.00	49.66	49.73	83.64	-1,384.74	1,473.39	1,325.98	1,227.68	98.30	13.489
10,900.00	9,255.00	10,758.10	9,110.00	51.40	51.48	83.64	-1,384.84	1,573.39	1,326.03	1,224.24	101.80	13.026
11,000.00	9,255.00	10,858.10	9,110.00	53.17	53.28	83.64	-1,384.94	1,673.39	1,326.08	1,220.71	105.37	12.585
11,100.00	9,255.00	10,958.10	9,110.00	54.99	55.12	83.64	-1,385.03	1,773.39	1,326.13	1,217.10	109.03	12.163
11,200.00	9,255.00	11,058.10	9,110.00	56.84	56.99	83.64	-1,385.13	1,873.39	1,326.18	1,213.43	112.75	11.762
11,300.00	9,255.00	11,158.10	9,110.00	58.72	58.89	83.64	-1,385.22	1,973.39	1,326.23	1,209.69	116.53	11.381
11,400.00	9,255.00	11,258.10	9,110.00	60.64	60.82	83.64	-1,385.32	2,073.39	1,326.27	1,205.90	120.37	11.018
11,500.00	9,255.00	11,358.10	9,110.00	62.58	62.77	83.64	-1,385.41	2,173.39	1,326.32	1,202.06	124.27	10.673
11,600.00	9,255.00	11,458.10	9,110.00	64.54	64.75	83.64	-1,385.51	2,273.39	1,326.37	1,198.17	128.20	10.346
11,700.00	9,255.00	11,558.10	9,110.00	66.53	66.75	83.64	-1,385.61	2,373.39	1,326.42	1,194.24	132.18	10.035
11,800.00	9,255.00	11,658.10	9,110.00	68.54	68.77	83.64	-1,385.70	2,473.39	1,326.47	1,190.27	136.20	9.739
11,900.00	9,255.00	11,758.10	9,110.00	70.56	70.81	83.64	-1,385.80	2,573.39	1,326.52	1,186.26	140.26	9.458
12,000.00	9,255.00	11,858.10	9,110.00	72.60	72.86	83.64	-1,385.89	2,673.39	1,326.56	1,182.22	144.34	9.190
12,100.00	9,255.00	11,958.10	9,110.00	74.66	74.93	83.64	-1,385.99	2,773.39	1,326.61	1,178.16	148.46	8.936
12,200.00	9,255.00	12,058.10	9,110.00	76.74	77.01	83.64	-1,386.09	2,873.39	1,326.66	1,174.06	152.60	8.694
12,300.00	9,255.00	12,158.10	9,110.00	78.82	79.11	83.64	-1,386.18	2,973.39	1,326.71	1,169.94	156.77	8.463
12,400.00	9,255.00	12,258.10	9,110.00	80.92	81.21	83.64	-1,386.28	3,073.39	1,326.76	1,165.80	160.96	8.243
12,500.00	9,255.00	12,358.10	9,110.00	83.03	83.33	83.64	-1,386.37	3,173.39	1,326.81	1,161.64	165.17	8.033
12,600.00	9,255.00	12,458.10	9,110.00	85.15	85.45	83.64	-1,386.47	3,273.39	1,326.85	1,157.45	169.40	7.833
12,700.00	9,255.00	12,558.10	9,110.00	87.28	87.59	83.64	-1,386.57	3,373.39	1,326.90	1,153.25	173.65	7.641
12,800.00	9,255.00	12,658.10	9,110.00	89.41	89.73	83.64	-1,386.66	3,473.39	1,326.95	1,149.03	177.92	7.458
12,900.00	9,255.00	12,758.10	9,110.00	91.56	91.89	83.64	-1,386.76	3,573.39	1,327.00	1,144.80	182.20	7.283
13,000.00	9,255.00	12,858.10	9,110.00	93.71	94.05	83.64	-1,386.85	3,673.39	1,327.05	1,140.55	186.50	7.116
13,100.00	9,255.00	12,958.10	9,110.00	95.88	96.21	83.64	-1,386.95	3,773.39	1,327.10	1,136.29	190.81	6.955
13,200.00	9,255.00	13,058.10	9,110.00	98.04	98.39	83.64	-1,387.04	3,873.39	1,327.14	1,132.01	195.13	6.801
13,300.00	9,255.00	13,158.10	9,110.00	100.22	100.56	83.64	-1,387.14	3,973.39	1,327.19	1,127.72	199.47	6.654
13,400.00	9,255.00	13,258.10	9,110.00	102.40	102.75	83.64	-1,387.24	4,073.39	1,327.24	1,123.42	203.82	6.512
13,500.00	9,255.00	13,358.10	9,110.00	104.58	104.94	83.64	-1,387.33	4,173.39	1,327.29	1,119.11	208.18	6.376
13,600.00	9,255.00	13,458.10	9,110.00	106.77	107.13	83.64	-1,387.43	4,273.39	1,327.34	1,114.79	212.54	6.245
13,700.00	9,255.00	13,558.10	9,110.00	108.97	109.33	83.64	-1,387.52	4,373.39	1,327.39	1,110.47	216.92	6.119
13,800.00	9,255.00	13,658.10	9,110.00	111.17	111.54	83.64	-1,387.62	4,473.39	1,327.43	1,106.13	221.31	5.998
13,900.00	9,255.00	13,758.10	9,110.00	113.38	113.75	83.64	-1,387.72	4,573.39	1,327.48	1,101.78	225.70	5.882
14,000.00	9,255.00	13,858.10	9,110.00	115.58	115.96	83.64	-1,387.81	4,673.39	1,327.53	1,097.43	230.10	5.769
14,100.00	9,255.00	13,958.10	9,110.00	117.80	118.17	83.64	-1,387.91	4,773.39	1,327.58	1,093.07	234.51	5.661
14,200.00	9,255.00	14,058.10	9,110.00	120.01	120.39	83.64	-1,388.00	4,873.39	1,327.63	1,088.70	238.92	5.557
14,300.00	9,255.00	14,158.10	9,110.00	122.23	122.62	83.64	-1,388.10	4,973.39	1,327.68	1,084.33	243.35	5.456
14,400.00	9,255.00	14,258.10	9,110.00	124.46	124.84	83.64	-1,388.20	5,073.39	1,327.72	1,079.95	247.77	5.359
14,500.00	9,255.00	14,358.10	9,110.00	126.68	127.07	83.64	-1,388.29	5,173.39	1,327.77	1,075.56	252.21	5.265
14,600.00	9,255.00	14,458.10	9,110.00	128.91	129.30	83.64	-1,388.39	5,273.39	1,327.82	1,071.17	256.65	5.174
14,700.00	9,255.00	14,558.10	9,110.00	131.14	131.54	83.64	-1,388.48	5,373.39	1,327.87	1,066.78	261.09	5.086
14,800.00	9,255.00	14,658.10	9,110.00	133.38	133.77	83.64	-1,388.58	5,473.39	1,327.92	1,062.37	265.54	5.001
14,900.00	9,255.00	14,758.10	9,110.00	135.61	136.01	83.64	-1,388.67	5,573.39	1,327.97	1,057.97	270.00	4.918
15,000.00	9,255.00	14,858.10	9,110.00	137.85	138.25	83.64	-1,388.77	5,673.39	1,328.01	1,053.56	274.46	4.839
15,100.00	9,255.00	14,958.10	9,110.00	140.09	140.50	83.65	-1,388.87	5,773.39	1,328.06	1,049.14	278.92	4.761
15,200.00	9,255.00	15,058.10	9,110.00	142.34	142.74	83.65	-1,388.96	5,873.39	1,328.11	1,044.72	283.39	4.687
15,300.00	9,255.00	15,158.10	9,110.00	144.58	144.99	83.65	-1,389.06	5,973.39	1,328.16	1,040.30	287.86	4.614

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 #205H
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:	#205H	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	Semi-Major Axis	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
				(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		
15,400.00	9,255.00	15,258.10	9,110.00	146.83	147.24	83.65		-1,389.15	6,073.39	1,328.21	1,035.87	292.33	4.543	
15,500.00	9,255.00	15,358.10	9,110.00	149.08	149.49	83.65		-1,389.25	6,173.39	1,328.26	1,031.44	296.81	4.475	
15,600.00	9,255.00	15,458.10	9,110.00	151.33	151.75	83.65		-1,389.35	6,273.39	1,328.30	1,027.01	301.29	4.409	
15,700.00	9,255.00	15,558.10	9,110.00	153.58	154.00	83.65		-1,389.44	6,373.39	1,328.35	1,022.57	305.78	4.344	
15,800.00	9,255.00	15,658.10	9,110.00	155.84	156.26	83.65		-1,389.54	6,473.39	1,328.40	1,018.13	310.27	4.281	
15,900.00	9,255.00	15,758.10	9,110.00	158.09	158.51	83.65		-1,389.63	6,573.39	1,328.45	1,013.69	314.76	4.221	
16,000.00	9,255.00	15,858.10	9,110.00	160.35	160.77	83.65		-1,389.73	6,673.39	1,328.50	1,009.24	319.25	4.161	
16,100.00	9,255.00	15,958.10	9,110.00	162.61	163.03	83.65		-1,389.83	6,773.39	1,328.55	1,004.79	323.75	4.104	
16,200.00	9,255.00	16,058.10	9,110.00	164.87	165.30	83.65		-1,389.92	6,873.39	1,328.59	1,000.34	328.25	4.047	
16,300.00	9,255.00	16,158.10	9,110.00	167.13	167.56	83.65		-1,390.02	6,973.39	1,328.64	995.89	332.75	3.993	
16,400.00	9,255.00	16,258.10	9,110.00	169.40	169.82	83.65		-1,390.11	7,073.39	1,328.69	991.43	337.26	3.940	
16,500.00	9,255.00	16,358.10	9,110.00	171.66	172.09	83.65		-1,390.21	7,173.39	1,328.74	986.97	341.76	3.888	
16,600.00	9,255.00	16,458.10	9,110.00	173.93	174.36	83.65		-1,390.30	7,273.39	1,328.79	982.51	346.27	3.837	
16,700.00	9,255.00	16,558.10	9,110.00	176.19	176.62	83.65		-1,390.40	7,373.39	1,328.84	978.05	350.79	3.788	
16,800.00	9,255.00	16,658.10	9,110.00	178.46	178.89	83.65		-1,390.50	7,473.39	1,328.88	973.59	355.30	3.740	
16,900.00	9,255.00	16,758.10	9,110.00	180.73	181.16	83.65		-1,390.59	7,573.39	1,328.93	969.12	359.81	3.693	
17,000.00	9,255.00	16,858.10	9,110.00	183.00	183.43	83.65		-1,390.69	7,673.39	1,328.98	964.65	364.33	3.648	
17,100.00	9,255.00	16,958.10	9,110.00	185.27	185.71	83.65		-1,390.78	7,773.39	1,329.03	960.18	368.85	3.603	
17,200.00	9,255.00	17,058.10	9,110.00	187.54	187.98	83.65		-1,390.88	7,873.39	1,329.08	955.71	373.37	3.560	
17,300.00	9,255.00	17,158.10	9,110.00	189.81	190.25	83.65		-1,390.98	7,973.39	1,329.13	951.23	377.89	3.517	
17,400.00	9,255.00	17,258.10	9,110.00	192.09	192.53	83.65		-1,391.07	8,073.39	1,329.17	946.76	382.42	3.476	
17,500.00	9,255.00	17,358.10	9,110.00	194.36	194.80	83.65		-1,391.17	8,173.39	1,329.22	942.28	386.94	3.435	
17,600.00	9,255.00	17,458.10	9,110.00	196.64	197.08	83.65		-1,391.26	8,273.39	1,329.27	937.80	391.47	3.396	
17,700.00	9,255.00	17,558.10	9,110.00	198.91	199.35	83.65		-1,391.36	8,373.39	1,329.32	933.32	396.00	3.357	
17,800.00	9,255.00	17,658.10	9,110.00	201.19	201.63	83.65		-1,391.45	8,473.39	1,329.37	928.84	400.53	3.319	
17,900.00	9,255.00	17,758.10	9,110.00	203.47	203.91	83.65		-1,391.55	8,573.39	1,329.42	924.35	405.06	3.282	
18,000.00	9,255.00	17,858.10	9,110.00	205.74	206.19	83.65		-1,391.65	8,673.39	1,329.46	919.87	409.59	3.246	
18,100.00	9,255.00	17,958.10	9,110.00	208.02	208.47	83.65		-1,391.74	8,773.39	1,329.51	915.38	414.13	3.210	
18,200.00	9,255.00	18,058.10	9,110.00	210.30	210.75	83.65		-1,391.84	8,873.39	1,329.56	910.90	418.66	3.176	
18,300.00	9,255.00	18,158.10	9,110.00	212.58	213.03	83.65		-1,391.93	8,973.39	1,329.61	906.41	423.20	3.142	
18,400.00	9,255.00	18,258.10	9,110.00	214.86	215.31	83.65		-1,392.03	9,073.39	1,329.66	901.92	427.74	3.109	
18,500.00	9,255.00	18,358.10	9,110.00	217.14	217.59	83.65		-1,392.13	9,173.39	1,329.71	897.43	432.28	3.076	
18,600.00	9,255.00	18,458.10	9,110.00	219.43	219.87	83.65		-1,392.22	9,273.39	1,329.75	892.94	436.82	3.044	
18,700.00	9,255.00	18,558.10	9,110.00	221.71	222.16	83.65		-1,392.32	9,373.39	1,329.80	888.44	441.36	3.013	
18,800.00	9,255.00	18,658.10	9,110.00	223.99	224.44	83.65		-1,392.41	9,473.39	1,329.85	883.95	445.90	2.982	
18,900.00	9,255.00	18,758.10	9,110.00	226.28	226.73	83.65		-1,392.51	9,573.39	1,329.90	879.45	450.44	2.952	
19,000.00	9,255.00	18,858.10	9,110.00	228.56	229.01	83.65		-1,392.61	9,673.39	1,329.95	874.96	454.99	2.923	
19,100.00	9,255.00	18,958.10	9,110.00	230.84	231.30	83.65		-1,392.70	9,773.39	1,330.00	870.46	459.53	2.894	
19,200.00	9,255.00	19,058.10	9,110.00	233.13	233.58	83.65		-1,392.80	9,873.39	1,330.04	865.96	464.08	2.866	
19,300.00	9,255.00	19,158.10	9,110.00	235.41	235.87	83.65		-1,392.89	9,973.39	1,330.09	861.47	468.63	2.838	
19,400.00	9,255.00	19,258.10	9,110.00	236.87	238.15	83.66		-1,392.99	10,073.39	1,330.14	857.79	472.35	2.816	
19,407.34	9,255.00	19,265.44	9,110.00	236.98	238.32	83.66		-1,393.00	10,080.73	1,330.14	857.52	472.62	2.814 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 #205H
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:	#205H	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		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	3.00	3.00	0.00	0.00	-170.76	-670.00	-109.00	678.81				
100.00	100.00	103.00	103.00	0.13	0.14	-170.76	-670.00	-109.00	678.81	678.54	0.27	2,541.767	
200.00	200.00	203.00	203.00	0.49	0.50	-170.76	-670.00	-109.00	678.81	677.82	0.98	689.843	
300.00	300.00	303.00	303.00	0.85	0.86	-170.76	-670.00	-109.00	678.81	677.11	1.70	399.077	
400.00	400.00	403.00	403.00	1.20	1.21	-170.76	-670.00	-109.00	678.81	676.39	2.42	280.744	
500.00	500.00	503.00	503.00	1.56	1.57	-170.76	-670.00	-109.00	678.81	675.67	3.13	216.537	
600.00	600.00	603.00	603.00	1.92	1.93	-170.76	-670.00	-109.00	678.81	674.96	3.85	176.233	
700.00	700.00	703.00	703.00	2.28	2.29	-170.76	-670.00	-109.00	678.81	674.24	4.57	148.577	
800.00	800.00	803.00	803.00	2.64	2.65	-170.76	-670.00	-109.00	678.81	673.52	5.29	128.424 CC, ES	
900.00	899.98	902.98	902.98	2.99	3.01	-117.89	-670.00	-109.00	679.62	673.62	6.00	113.280	
1,000.00	999.84	1,002.84	1,002.84	3.35	3.36	-118.23	-670.00	-109.00	682.09	675.38	6.71	101.618	
1,100.00	1,099.45	1,085.96	1,085.95	3.71	3.65	-118.61	-670.91	-109.91	687.49	680.13	7.36	93.461	
1,200.00	1,198.72	1,182.52	1,182.45	4.07	3.97	-119.18	-673.27	-112.27	696.11	688.07	8.04	86.546	
1,300.00	1,297.86	1,281.67	1,281.54	4.44	4.31	-119.93	-675.72	-114.72	705.35	696.61	8.74	80.664	
1,400.00	1,397.01	1,380.82	1,380.63	4.82	4.64	-120.66	-678.16	-117.16	714.71	705.25	9.45	75.611	
1,500.00	1,496.15	1,479.97	1,479.72	5.20	4.98	-121.37	-680.61	-119.61	724.18	714.01	10.17	71.236	
1,600.00	1,595.30	1,579.12	1,578.81	5.58	5.33	-122.07	-683.06	-122.06	733.76	722.87	10.88	67.417	
1,700.00	1,694.44	1,678.27	1,677.89	5.96	5.67	-122.74	-685.50	-124.50	743.44	731.84	11.60	64.062	
1,800.00	1,793.59	1,777.41	1,776.98	6.35	6.02	-123.40	-687.95	-126.95	753.23	740.90	12.33	61.094	
1,900.00	1,892.74	1,876.56	1,876.07	6.74	6.37	-124.04	-690.40	-129.40	763.11	750.05	13.05	58.454	
2,000.00	1,991.88	1,975.71	1,975.16	7.13	6.72	-124.67	-692.84	-131.84	773.08	759.30	13.78	56.091	
2,100.00	2,091.03	2,074.86	2,074.25	7.52	7.07	-125.28	-695.29	-134.29	783.15	768.63	14.51	53.966	
2,200.00	2,190.17	2,174.01	2,173.33	7.91	7.42	-125.87	-697.74	-136.74	793.30	778.05	15.24	52.046	
2,300.00	2,289.32	2,273.16	2,272.42	8.30	7.77	-126.45	-700.18	-139.18	803.53	787.56	15.97	50.304	
2,400.00	2,388.46	2,372.31	2,371.51	8.69	8.12	-127.02	-702.63	-141.63	813.84	797.14	16.71	48.717	
2,500.00	2,487.61	2,471.45	2,470.60	9.08	8.48	-127.57	-705.08	-144.08	824.23	806.79	17.44	47.267	
2,600.00	2,586.75	2,554.90	2,553.97	9.48	8.77	-128.02	-707.65	-146.16	835.35	817.25	18.10	46.152	
2,700.00	2,685.90	2,631.29	2,630.21	9.87	9.05	-128.41	-711.99	-148.16	849.06	830.34	18.72	45.358	
2,800.00	2,785.04	2,707.09	2,705.72	10.27	9.32	-128.78	-718.30	-150.24	865.44	846.12	19.32	44.790	
2,900.00	2,884.19	2,782.20	2,780.34	10.66	9.59	-129.12	-726.52	-152.38	884.46	864.55	19.91	44.424	
3,000.00	2,983.34	2,868.58	2,865.92	11.06	9.91	-129.49	-737.95	-154.94	905.72	885.16	20.56	44.052	
3,100.00	3,082.48	2,966.02	2,962.44	11.45	10.27	-129.88	-751.09	-157.84	927.32	906.04	21.28	43.571	
3,200.00	3,181.63	3,063.47	3,058.95	11.85	10.63	-130.26	-764.24	-160.73	948.96	926.95	22.01	43.121	
3,300.00	3,280.77	3,160.91	3,155.46	12.24	11.00	-130.63	-777.39	-163.63	970.63	947.90	22.73	42.699	
3,400.00	3,380.14	3,258.69	3,252.30	12.63	11.37	-131.21	-790.58	-166.53	991.12	967.67	23.45	42.259	
3,500.00	3,479.84	3,356.99	3,349.66	13.00	11.74	-131.58	-803.84	-169.45	1,009.37	985.20	24.17	41.764	
3,600.00	3,579.75	3,455.70	3,447.42	13.36	12.11	-131.77	-817.16	-172.38	1,025.33	1,000.46	24.88	41.216	
3,700.00	3,679.74	3,554.68	3,545.45	13.70	12.49	-175.28	-830.51	-175.33	1,039.11	1,013.53	25.58	40.627	
3,800.00	3,779.74	3,653.72	3,643.54	14.03	12.87	-175.51	-843.87	-178.27	1,052.33	1,026.05	26.28	40.049	
3,900.00	3,879.74	3,752.77	3,741.64	14.37	13.26	-175.72	-857.24	-181.21	1,065.56	1,038.59	26.98	39.499	
4,000.00	3,979.74	3,851.81	3,839.73	14.71	13.64	-175.93	-870.60	-184.15	1,078.81	1,051.13	27.68	38.976	
4,100.00	4,079.74	3,950.85	3,937.82	15.04	14.03	-176.14	-883.96	-187.10	1,092.08	1,063.69	28.38	38.478	
4,200.00	4,179.74	4,049.89	4,035.91	15.38	14.41	-176.34	-897.32	-190.04	1,105.35	1,076.27	29.09	38.003	
4,300.00	4,279.74	4,148.93	4,134.00	15.72	14.80	-176.53	-910.68	-192.98	1,118.64	1,088.85	29.79	37.550	
4,400.00	4,379.74	4,247.97	4,232.09	16.07	15.19	-176.73	-924.04	-195.93	1,131.95	1,101.45	30.50	37.117	
4,500.00	4,479.74	4,347.01	4,330.19	16.41	15.57	-176.91	-937.41	-198.87	1,145.26	1,114.06	31.20	36.703	
4,600.00	4,579.74	4,446.05	4,428.28	16.75	15.96	-177.10	-950.77	-201.81	1,158.59	1,126.68	31.91	36.307	
4,700.00	4,679.74	4,545.09	4,526.37	17.09	16.36	-177.27	-964.13	-204.75	1,171.92	1,139.31	32.62	35.928	
4,800.00	4,779.74	4,644.14	4,624.46	17.44	16.75	-177.45	-977.49	-207.70	1,185.27	1,151.95	33.33	35.564	
4,900.00	4,879.74	4,743.18	4,722.55	17.78	17.14	-177.62	-990.85	-210.64	1,198.63	1,164.60	34.04	35.215	
5,000.00	4,979.74	4,842.22	4,820.64	18.13	17.53	-177.79	-1,004.22	-213.58	1,212.00	1,177.25	34.75	34.880	
5,100.00	5,079.74	4,941.26	4,918.74	18.47	17.92	-177.95	-1,017.58	-216.53	1,225.38	1,189.92	35.46	34.559	

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 #205H
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:	#205H	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		Distance		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)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
5,200.00	5,179.74	5,040.30	5,016.83	18.82	18.32	178.11	-1,030.94	-219.47	1,238.77	1,202.60	36.17	34.249
5,300.00	5,279.74	5,139.34	5,114.92	19.17	18.71	178.26	-1,044.30	-222.41	1,252.17	1,215.29	36.88	33.952
5,400.00	5,379.74	5,238.38	5,213.01	19.51	19.10	178.42	-1,057.66	-225.35	1,265.58	1,227.98	37.59	33.665
5,500.00	5,479.74	5,337.42	5,311.10	19.86	19.50	178.57	-1,071.03	-228.30	1,278.99	1,240.69	38.31	33.389
5,600.00	5,579.74	5,436.47	5,409.19	20.21	19.89	178.71	-1,084.39	-231.24	1,292.42	1,253.40	39.02	33.123
5,700.00	5,679.74	5,535.51	5,507.28	20.56	20.29	178.86	-1,097.75	-234.18	1,305.85	1,266.12	39.73	32.867
5,800.00	5,779.74	5,634.55	5,605.38	20.91	20.69	179.00	-1,111.11	-237.13	1,319.29	1,278.84	40.45	32.619
5,900.00	5,879.74	5,733.59	5,703.47	21.25	21.08	179.14	-1,124.47	-240.07	1,332.74	1,291.58	41.16	32.380
6,000.00	5,979.74	5,832.63	5,801.56	21.60	21.48	179.27	-1,137.83	-243.01	1,346.19	1,304.32	41.87	32.149
6,100.00	6,079.74	5,931.67	5,899.65	21.95	21.88	179.40	-1,151.20	-245.95	1,359.65	1,317.07	42.59	31.926
6,200.00	6,179.74	6,030.71	5,997.74	22.30	22.27	179.53	-1,164.56	-248.90	1,373.12	1,329.82	43.30	31.709
6,300.00	6,279.74	6,129.75	6,095.83	22.65	22.67	179.66	-1,177.92	-251.84	1,386.60	1,342.58	44.02	31.500
6,400.00	6,379.74	6,228.80	6,193.93	23.00	23.07	179.78	-1,191.28	-254.78	1,400.08	1,355.35	44.73	31.298
6,500.00	6,479.74	6,327.84	6,292.02	23.35	23.47	179.91	-1,204.64	-257.73	1,413.57	1,368.12	45.45	31.102
6,600.00	6,579.74	6,426.88	6,390.11	23.70	23.87	-179.97	-1,218.01	-260.67	1,427.07	1,380.90	46.17	30.912
6,700.00	6,679.74	6,525.92	6,488.20	24.05	24.26	-179.86	-1,231.37	-263.61	1,440.57	1,393.69	46.88	30.727
6,800.00	6,779.74	6,624.96	6,586.29	24.41	24.66	-179.74	-1,244.73	-266.55	1,454.08	1,406.48	47.60	30.548
6,900.00	6,879.74	6,805.14	6,765.29	24.76	25.37	-179.57	-1,264.59	-270.93	1,465.35	1,416.57	48.78	30.037
7,000.00	6,979.74	7,005.45	6,965.34	25.11	26.09	-179.50	-1,273.80	-272.95	1,469.96	1,420.06	49.90	29.459
7,100.00	7,079.74	7,122.85	7,082.74	25.46	26.46	-179.49	-1,274.00	-273.00	1,470.06	1,419.43	50.63	29.037
7,200.00	7,179.74	7,222.85	7,182.74	25.81	26.77	-179.49	-1,274.00	-273.00	1,470.06	1,418.75	51.31	28.652
7,300.00	7,279.74	7,322.85	7,282.74	26.17	27.08	-179.49	-1,274.00	-273.00	1,470.06	1,418.07	51.99	28.277
7,400.00	7,379.74	7,422.85	7,382.74	26.52	27.39	-179.49	-1,274.00	-273.00	1,470.06	1,417.39	52.67	27.912
7,500.00	7,479.74	7,522.85	7,482.74	26.87	27.71	-179.49	-1,274.00	-273.00	1,470.06	1,416.71	53.35	27.555
7,600.00	7,579.74	7,622.85	7,582.74	27.22	28.02	-179.49	-1,274.00	-273.00	1,470.06	1,416.02	54.03	27.206
7,700.00	7,679.74	7,722.85	7,682.74	27.58	28.34	-179.49	-1,274.00	-273.00	1,470.06	1,415.34	54.72	26.866
7,800.00	7,779.74	7,822.85	7,782.74	27.93	28.65	-179.49	-1,274.00	-273.00	1,470.06	1,414.66	55.40	26.534
7,900.00	7,879.74	7,922.85	7,882.74	28.28	28.97	-179.49	-1,274.00	-273.00	1,470.06	1,413.97	56.09	26.210
8,000.00	7,979.74	8,022.85	7,982.74	28.63	29.29	-179.49	-1,274.00	-273.00	1,470.06	1,413.28	56.77	25.893
8,100.00	8,079.74	8,122.85	8,082.74	28.99	29.61	-179.49	-1,274.00	-273.00	1,470.06	1,412.60	57.46	25.583
8,200.00	8,179.74	8,222.85	8,182.74	29.34	29.93	-179.49	-1,274.00	-273.00	1,470.06	1,411.91	58.15	25.281
8,300.00	8,279.74	8,322.85	8,282.74	29.70	30.25	-179.49	-1,274.00	-273.00	1,470.06	1,411.22	58.84	24.985
8,400.00	8,379.74	8,422.85	8,382.74	30.05	30.58	-179.49	-1,274.00	-273.00	1,470.06	1,410.53	59.53	24.696
8,500.00	8,479.74	8,522.85	8,482.74	30.40	30.90	-179.49	-1,274.00	-273.00	1,470.06	1,409.84	60.22	24.413
8,600.00	8,579.74	8,622.85	8,582.74	30.76	31.22	-179.49	-1,274.00	-273.00	1,470.06	1,409.15	60.91	24.136
8,700.00	8,679.74	8,722.85	8,682.74	31.11	31.55	-179.49	-1,274.00	-273.00	1,470.06	1,408.46	61.60	23.865
8,800.00	8,779.27	8,797.13	8,756.80	31.44	31.79	73.10	-1,274.70	-268.15	1,468.49	1,406.31	62.18	23.616
8,900.00	8,875.84	8,871.77	8,829.96	31.73	32.02	73.72	-1,276.77	-253.77	1,463.61	1,400.89	62.72	23.336
9,000.00	8,966.53	8,946.83	8,901.01	32.01	32.25	74.77	-1,280.20	-229.95	1,455.56	1,392.34	63.22	23.023
9,100.00	9,048.57	9,022.57	8,968.88	32.28	32.45	76.22	-1,284.98	-196.82	1,444.65	1,380.94	63.71	22.675
9,200.00	9,119.47	9,100.00	9,033.09	32.57	32.64	78.07	-1,291.14	-154.09	1,431.26	1,367.03	64.22	22.286
9,300.00	9,177.08	9,177.35	9,090.84	32.91	32.79	80.25	-1,298.46	-103.24	1,415.90	1,351.09	64.80	21.849
9,400.00	9,219.65	9,257.21	9,142.65	33.33	32.94	82.74	-1,307.12	-43.18	1,399.15	1,333.64	65.51	21.359
9,500.00	9,245.89	9,339.42	9,186.64	33.84	33.08	85.48	-1,317.01	25.48	1,381.67	1,315.31	66.36	20.820
9,600.00	9,254.99	9,424.68	9,221.30	34.44	33.30	88.40	-1,328.11	102.49	1,364.18	1,296.79	67.39	20.244
9,700.00	9,255.00	9,516.20	9,245.23	35.15	33.73	89.45	-1,340.69	189.83	1,349.82	1,281.21	68.62	19.672
9,800.00	9,255.00	9,614.07	9,254.94	36.00	34.37	89.87	-1,354.57	286.10	1,341.10	1,270.99	70.12	19.127
9,900.00	9,255.00	9,794.17	9,255.00	36.97	35.87	89.87	-1,375.13	464.99	1,334.91	1,262.47	72.44	18.427
10,000.00	9,255.00	9,980.46	9,255.00	38.06	37.81	89.87	-1,384.54	651.02	1,327.46	1,252.24	75.22	17.647
10,100.00	9,255.00	10,103.02	9,255.00	39.24	39.27	89.87	-1,385.07	773.57	1,320.50	1,242.73	77.78	16.978
10,199.22	9,255.00	10,202.20	9,255.00	40.49	40.56	89.87	-1,385.16	872.75	1,318.23	1,237.90	80.34	16.409
10,200.00	9,255.00	10,202.98	9,255.00	40.50	40.57	89.87	-1,385.16	873.54	1,318.51	1,238.15	80.36	16.408

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 #205H
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:	#205H	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		Distance		Warning									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore N/S (usft)	Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,300.00	9,255.00	10,302.98	9,255.00	41.85	41.95	89.87	-1,385.24	973.54	1,318.55	1,235.43	83.12	15.864			
10,400.00	9,255.00	10,402.98	9,255.00	43.28	43.42	89.87	-1,385.33	1,073.54	1,318.59	1,232.55	86.03	15.326			
10,500.00	9,255.00	10,502.98	9,255.00	44.78	44.95	89.87	-1,385.41	1,173.54	1,318.62	1,229.53	89.10	14.800			
10,600.00	9,255.00	10,602.98	9,255.00	46.35	46.55	89.87	-1,385.50	1,273.53	1,318.66	1,226.37	92.29	14.289			
10,700.00	9,255.00	10,702.98	9,255.00	47.98	48.21	89.87	-1,385.58	1,373.53	1,318.70	1,223.10	95.60	13.795			
10,800.00	9,255.00	10,802.98	9,255.00	49.66	49.92	89.87	-1,385.67	1,473.53	1,318.74	1,219.73	99.01	13.319			
10,900.00	9,255.00	10,902.98	9,255.00	51.40	51.67	89.87	-1,385.75	1,573.53	1,318.78	1,216.26	102.52	12.864			
11,000.00	9,255.00	11,002.98	9,255.00	53.17	53.47	89.87	-1,385.84	1,673.53	1,318.81	1,212.70	106.11	12.429			
11,100.00	9,255.00	11,102.98	9,255.00	54.99	55.30	89.87	-1,385.92	1,773.53	1,318.85	1,209.07	109.78	12.014			
11,200.00	9,255.00	11,202.98	9,255.00	56.84	57.17	89.87	-1,386.01	1,873.53	1,318.89	1,205.37	113.52	11.619			
11,300.00	9,255.00	11,302.98	9,255.00	58.72	59.07	89.87	-1,386.09	1,973.53	1,318.93	1,201.61	117.32	11.242			
11,400.00	9,255.00	11,402.98	9,255.00	60.64	61.00	89.87	-1,386.18	2,073.53	1,318.96	1,197.79	121.17	10.885			
11,500.00	9,255.00	11,502.98	9,255.00	62.58	62.96	89.87	-1,386.26	2,173.53	1,319.00	1,193.92	125.08	10.545			
11,600.00	9,255.00	11,602.98	9,255.00	64.54	64.93	89.87	-1,386.35	2,273.53	1,319.04	1,190.00	129.04	10.222			
11,700.00	9,255.00	11,702.98	9,255.00	66.53	66.93	89.87	-1,386.43	2,373.53	1,319.08	1,186.04	133.04	9.915			
11,800.00	9,255.00	11,802.98	9,255.00	68.54	68.95	89.87	-1,386.52	2,473.53	1,319.12	1,182.04	137.08	9.623			
11,900.00	9,255.00	11,902.98	9,255.00	70.56	70.98	89.87	-1,386.60	2,573.53	1,319.15	1,178.01	141.15	9.346			
12,000.00	9,255.00	12,002.98	9,255.00	72.60	73.04	89.87	-1,386.69	2,673.53	1,319.19	1,173.94	145.25	9.082			
12,100.00	9,255.00	12,102.98	9,255.00	74.66	75.10	89.87	-1,386.77	2,773.53	1,319.23	1,169.84	149.39	8.831			
12,200.00	9,255.00	12,202.98	9,255.00	76.74	77.18	89.87	-1,386.86	2,873.53	1,319.27	1,165.72	153.55	8.592			
12,300.00	9,255.00	12,302.98	9,255.00	78.82	79.28	89.87	-1,386.94	2,973.53	1,319.31	1,161.56	157.74	8.364			
12,400.00	9,255.00	12,402.98	9,255.00	80.92	81.38	89.87	-1,387.03	3,073.53	1,319.34	1,157.39	161.95	8.146			
12,500.00	9,255.00	12,502.98	9,255.00	83.03	83.50	89.87	-1,387.11	3,173.53	1,319.38	1,153.20	166.19	7.939			
12,600.00	9,255.00	12,602.98	9,255.00	85.15	85.62	89.87	-1,387.20	3,273.53	1,319.42	1,148.98	170.44	7.741			
12,700.00	9,255.00	12,702.98	9,255.00	87.28	87.76	89.87	-1,387.28	3,373.53	1,319.46	1,144.75	174.71	7.552			
12,800.00	9,255.00	12,802.98	9,255.00	89.41	89.90	89.87	-1,387.37	3,473.53	1,319.50	1,140.50	179.00	7.371			
12,900.00	9,255.00	12,902.98	9,255.00	91.56	92.05	89.87	-1,387.46	3,573.53	1,319.53	1,136.23	183.30	7.199			
13,000.00	9,255.00	13,002.98	9,255.00	93.71	94.21	89.87	-1,387.54	3,673.53	1,319.57	1,131.95	187.62	7.033			
13,100.00	9,255.00	13,102.98	9,255.00	95.88	96.37	89.87	-1,387.63	3,773.53	1,319.61	1,127.65	191.96	6.874			
13,200.00	9,255.00	13,202.98	9,255.00	98.04	98.55	89.87	-1,387.71	3,873.53	1,319.65	1,123.34	196.30	6.722			
13,300.00	9,255.00	13,302.98	9,255.00	100.22	100.72	89.87	-1,387.80	3,973.53	1,319.69	1,119.02	200.66	6.577			
13,400.00	9,255.00	13,402.98	9,255.00	102.40	102.91	89.87	-1,387.88	4,073.53	1,319.72	1,114.69	205.03	6.437			
13,500.00	9,255.00	13,502.98	9,255.00	104.58	105.10	89.87	-1,387.97	4,173.53	1,319.76	1,110.35	209.41	6.302			
13,600.00	9,255.00	13,602.98	9,255.00	106.77	107.29	89.87	-1,388.05	4,273.53	1,319.80	1,105.99	213.80	6.173			
13,700.00	9,255.00	13,702.98	9,255.00	108.97	109.49	89.87	-1,388.14	4,373.53	1,319.84	1,101.63	218.20	6.049			
13,800.00	9,255.00	13,802.98	9,255.00	111.17	111.69	89.87	-1,388.22	4,473.53	1,319.87	1,097.26	222.61	5.929			
13,900.00	9,255.00	13,902.98	9,255.00	113.38	113.90	89.87	-1,388.31	4,573.53	1,319.91	1,092.88	227.03	5.814			
14,000.00	9,255.00	14,002.98	9,255.00	115.58	116.11	89.87	-1,388.39	4,673.53	1,319.95	1,088.50	231.46	5.703			
14,100.00	9,255.00	14,102.98	9,255.00	117.80	118.33	89.87	-1,388.48	4,773.53	1,319.99	1,084.10	235.89	5.596			
14,200.00	9,255.00	14,202.98	9,255.00	120.01	120.55	89.87	-1,388.56	4,873.53	1,320.03	1,079.70	240.33	5.493			
14,300.00	9,255.00	14,302.98	9,255.00	122.23	122.77	89.87	-1,388.65	4,973.53	1,320.06	1,075.29	244.77	5.393			
14,400.00	9,255.00	14,402.98	9,255.00	124.46	124.99	89.87	-1,388.73	5,073.53	1,320.10	1,070.88	249.22	5.297			
14,500.00	9,255.00	14,502.98	9,255.00	126.68	127.22	89.87	-1,388.82	5,173.53	1,320.14	1,066.46	253.68	5.204			
14,600.00	9,255.00	14,602.98	9,255.00	128.91	129.45	89.87	-1,388.90	5,273.53	1,320.18	1,062.03	258.15	5.114			
14,700.00	9,255.00	14,702.98	9,255.00	131.14	131.69	89.87	-1,388.99	5,373.53	1,320.22	1,057.60	262.62	5.027			
14,800.00	9,255.00	14,802.98	9,255.00	133.38	133.92	89.87	-1,389.07	5,473.53	1,320.25	1,053.16	267.09	4.943			
14,900.00	9,255.00	14,902.98	9,255.00	135.61	136.16	89.87	-1,389.16	5,573.53	1,320.29	1,048.72	271.57	4.862			
15,000.00	9,255.00	15,002.98	9,255.00	137.85	138.40	89.87	-1,389.24	5,673.53	1,320.33	1,044.28	276.05	4.783			
15,100.00	9,255.00	15,102.98	9,255.00	140.09	140.64	89.87	-1,389.33	5,773.53	1,320.37	1,039.83	280.54	4.707			
15,200.00	9,255.00	15,202.98	9,255.00	142.34	142.89	89.87	-1,389.41	5,873.53	1,320.41	1,035.37	285.03	4.633			
15,300.00	9,255.00	15,302.98	9,255.00	144.58	145.14	89.87	-1,389.50	5,973.53	1,320.44	1,030.92	289.53	4.561			
15,400.00	9,255.00	15,402.98	9,255.00	146.83	147.38	89.87	-1,389.58	6,073.53	1,320.48	1,026.46	294.03	4.491			

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 #205H
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:	#205H	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		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		
15,500.00	9,255.00	15,502.98	9,255.00	149.08	149.64	89.87	-1,389.67	6,173.53	1,320.52	1,021.99	298.53	4.423		
15,600.00	9,255.00	15,602.98	9,255.00	151.33	151.89	89.87	-1,389.75	6,273.53	1,320.56	1,017.52	303.04	4.358		
15,700.00	9,255.00	15,702.98	9,255.00	153.58	154.14	89.87	-1,389.84	6,373.53	1,320.59	1,013.05	307.55	4.294		
15,800.00	9,255.00	15,802.98	9,255.00	155.84	156.40	89.87	-1,389.92	6,473.53	1,320.63	1,008.57	312.06	4.232		
15,900.00	9,255.00	15,902.98	9,255.00	158.09	158.66	89.87	-1,390.01	6,573.53	1,320.67	1,004.10	316.58	4.172		
16,000.00	9,255.00	16,002.98	9,255.00	160.35	160.91	89.87	-1,390.09	6,673.53	1,320.71	999.61	321.09	4.113		
16,100.00	9,255.00	16,102.98	9,255.00	162.61	163.17	89.87	-1,390.18	6,773.53	1,320.75	995.13	325.62	4.056		
16,200.00	9,255.00	16,202.98	9,255.00	164.87	165.44	89.87	-1,390.27	6,873.53	1,320.78	990.64	330.14	4.001		
16,300.00	9,255.00	16,302.98	9,255.00	167.13	167.70	89.87	-1,390.35	6,973.53	1,320.82	986.16	334.67	3.947		
16,400.00	9,255.00	16,402.98	9,255.00	169.40	169.96	89.87	-1,390.44	7,073.53	1,320.86	981.66	339.20	3.894		
16,500.00	9,255.00	16,502.98	9,255.00	171.66	172.23	89.87	-1,390.52	7,173.53	1,320.90	977.17	343.73	3.843		
16,600.00	9,255.00	16,602.98	9,255.00	173.93	174.49	89.87	-1,390.61	7,273.53	1,320.94	972.67	348.26	3.793		
16,700.00	9,255.00	16,702.98	9,255.00	176.19	176.76	89.87	-1,390.69	7,373.53	1,320.97	968.18	352.80	3.744		
16,800.00	9,255.00	16,802.98	9,255.00	178.46	179.03	89.87	-1,390.78	7,473.53	1,321.01	963.68	357.34	3.697		
16,900.00	9,255.00	16,902.98	9,255.00	180.73	181.30	89.87	-1,390.86	7,573.53	1,321.05	959.17	361.88	3.651		
17,000.00	9,255.00	17,002.98	9,255.00	183.00	183.57	89.87	-1,390.95	7,673.53	1,321.09	954.67	366.42	3.605		
17,100.00	9,255.00	17,102.98	9,255.00	185.27	185.84	89.87	-1,391.03	7,773.53	1,321.13	950.16	370.96	3.561		
17,200.00	9,255.00	17,202.98	9,255.00	187.54	188.11	89.87	-1,391.12	7,873.53	1,321.16	945.65	375.51	3.518		
17,300.00	9,255.00	17,302.98	9,255.00	189.81	190.39	89.87	-1,391.20	7,973.53	1,321.20	941.15	380.06	3.476		
17,400.00	9,255.00	17,402.98	9,255.00	192.09	192.66	89.87	-1,391.29	8,073.53	1,321.24	936.63	384.61	3.435		
17,500.00	9,255.00	17,502.98	9,255.00	194.36	194.94	89.87	-1,391.37	8,173.53	1,321.28	932.12	389.16	3.395		
17,600.00	9,255.00	17,602.98	9,255.00	196.64	197.21	89.87	-1,391.46	8,273.53	1,321.32	927.61	393.71	3.356		
17,700.00	9,255.00	17,702.98	9,255.00	198.91	199.49	89.87	-1,391.54	8,373.53	1,321.35	923.09	398.26	3.318		
17,800.00	9,255.00	17,802.98	9,255.00	201.19	201.77	89.87	-1,391.63	8,473.53	1,321.39	918.57	402.82	3.280		
17,900.00	9,255.00	17,902.98	9,255.00	203.47	204.04	89.87	-1,391.71	8,573.53	1,321.43	914.05	407.37	3.244		
18,000.00	9,255.00	18,002.98	9,255.00	205.74	206.32	89.87	-1,391.80	8,673.53	1,321.47	909.53	411.93	3.208		
18,100.00	9,255.00	18,102.98	9,255.00	208.02	208.60	89.87	-1,391.88	8,773.53	1,321.50	905.01	416.49	3.173		
18,200.00	9,255.00	18,202.98	9,255.00	210.30	210.88	89.87	-1,391.97	8,873.53	1,321.54	900.49	421.05	3.139		
18,300.00	9,255.00	18,302.98	9,255.00	212.58	213.16	89.87	-1,392.05	8,973.53	1,321.58	895.97	425.61	3.105		
18,400.00	9,255.00	18,402.98	9,255.00	214.86	215.44	89.87	-1,392.14	9,073.53	1,321.62	891.44	430.18	3.072		
18,500.00	9,255.00	18,502.98	9,255.00	217.14	217.73	89.87	-1,392.22	9,173.53	1,321.66	886.91	434.74	3.040		
18,600.00	9,255.00	18,602.98	9,255.00	219.43	220.01	89.87	-1,392.31	9,273.53	1,321.69	882.39	439.31	3.009		
18,700.00	9,255.00	18,702.98	9,255.00	221.71	222.29	89.87	-1,392.39	9,373.53	1,321.73	877.86	443.87	2.978		
18,800.00	9,255.00	18,802.98	9,255.00	223.99	224.57	89.87	-1,392.48	9,473.53	1,321.77	873.33	448.44	2.947		
18,900.00	9,255.00	18,902.98	9,255.00	226.28	226.86	89.87	-1,392.56	9,573.53	1,321.81	868.80	453.01	2.918		
19,000.00	9,255.00	19,002.98	9,255.00	228.56	229.14	89.87	-1,392.65	9,673.53	1,321.85	864.27	457.58	2.889		
19,100.00	9,255.00	19,102.98	9,255.00	230.84	231.43	89.87	-1,392.73	9,773.53	1,321.88	859.73	462.15	2.860		
19,200.00	9,255.00	19,202.98	9,255.00	233.13	233.71	89.87	-1,392.82	9,873.53	1,321.92	855.20	466.72	2.832		
19,300.00	9,255.00	19,302.98	9,255.00	235.41	236.00	89.87	-1,392.91	9,973.53	1,321.96	850.67	471.29	2.805		
19,400.00	9,255.00	19,402.98	9,255.00	236.87	238.28	89.87	-1,392.99	10,073.53	1,322.00	846.96	475.04	2.783		
19,407.34	9,255.00	19,410.33	9,255.00	236.98	238.45	89.87	-1,393.00	10,080.87	1,322.00	846.69	475.31	2.781SF		

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #205H
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:	#205H	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		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	1.00	1.00	0.00	0.00	-171.97	-560.00	-79.00	565.54				
100.00	100.00	101.00	101.00	0.13	0.13	-171.97	-560.00	-79.00	565.54	565.28	0.26	2,176.075	
200.00	200.00	201.00	201.00	0.49	0.49	-171.97	-560.00	-79.00	565.54	564.57	0.98	578.956	
300.00	300.00	301.00	301.00	0.85	0.85	-171.97	-560.00	-79.00	565.54	563.85	1.69	333.895	
400.00	400.00	401.00	401.00	1.20	1.21	-171.97	-560.00	-79.00	565.54	563.13	2.41	234.596	
500.00	500.00	501.00	501.00	1.56	1.57	-171.97	-560.00	-79.00	565.54	562.42	3.13	180.820	
600.00	600.00	601.00	601.00	1.92	1.92	-171.97	-560.00	-79.00	565.54	561.70	3.84	147.101	
700.00	700.00	701.00	701.00	2.28	2.28	-171.97	-560.00	-79.00	565.54	560.98	4.56	123.981	
800.00	800.00	801.00	801.00	2.64	2.64	-171.97	-560.00	-79.00	565.54	560.27	5.28	107.141 CC, ES	
900.00	899.98	900.98	900.98	2.99	3.00	-119.12	-560.00	-79.00	566.39	560.40	5.99	94.519	
1,000.00	999.84	1,000.84	1,000.84	3.35	3.36	-119.54	-560.00	-79.00	568.96	562.25	6.71	84.854	
1,100.00	1,099.45	1,100.45	1,100.45	3.71	3.71	-120.22	-560.00	-79.00	573.31	565.89	7.42	77.254	
1,200.00	1,198.72	1,200.28	1,199.72	4.07	4.07	-121.17	-560.00	-79.00	579.51	571.37	8.14	71.159	
1,300.00	1,297.86	1,301.14	1,298.86	4.44	4.43	-122.25	-560.00	-79.00	586.41	577.53	8.87	66.085	
1,400.00	1,397.01	1,401.99	1,398.01	4.82	4.80	-123.31	-560.00	-79.00	593.51	583.91	9.61	61.784	
1,500.00	1,496.15	1,497.15	1,497.15	5.20	5.14	-124.34	-560.00	-79.00	600.82	590.50	10.32	58.214	
1,600.00	1,595.30	1,596.77	1,596.76	5.58	5.49	-125.51	-560.00	-77.37	608.28	597.23	11.04	55.074	
1,700.00	1,694.44	1,704.49	1,695.43	5.96	5.86	-126.81	-560.00	-73.92	615.98	604.19	11.79	52.244	
1,800.00	1,793.59	1,805.77	1,794.09	6.35	6.21	-128.07	-560.00	-70.48	623.99	611.48	12.52	49.855	
1,900.00	1,892.74	1,907.05	1,892.76	6.74	6.56	-129.30	-560.00	-67.03	632.31	619.06	13.24	47.743	
2,000.00	1,991.88	2,008.32	1,991.42	7.13	6.91	-130.51	-560.00	-63.59	640.91	626.94	13.97	45.868	
2,100.00	2,091.03	2,109.60	2,090.08	7.52	7.26	-131.67	-560.00	-60.14	649.79	635.09	14.70	44.194	
2,200.00	2,190.17	2,189.12	2,188.74	7.91	7.54	-132.81	-560.00	-56.69	658.94	643.58	15.36	42.907	
2,300.00	2,289.32	2,287.84	2,287.40	8.30	7.89	-133.92	-560.00	-53.25	668.34	652.26	16.08	41.565	
2,400.00	2,388.46	2,386.56	2,386.06	8.69	8.24	-135.00	-560.00	-49.80	677.98	661.18	16.80	40.352	
2,500.00	2,487.61	2,485.28	2,484.72	9.08	8.59	-136.04	-560.00	-46.36	687.86	670.34	17.52	39.252	
2,600.00	2,586.75	2,584.00	2,583.39	9.48	8.94	-137.06	-560.00	-42.91	697.97	679.72	18.25	38.252	
2,700.00	2,685.90	2,682.73	2,682.05	9.87	9.29	-138.05	-560.00	-39.47	708.29	689.32	18.97	37.339	
2,800.00	2,785.04	2,781.45	2,780.71	10.27	9.64	-139.01	-560.00	-36.02	718.81	699.12	19.69	36.504	
2,900.00	2,884.19	2,880.17	2,879.37	10.66	9.99	-139.94	-560.00	-32.58	729.53	709.12	20.41	35.738	
3,000.00	2,983.34	2,978.89	2,978.03	11.06	10.34	-140.84	-560.00	-29.13	740.44	719.30	21.14	35.033	
3,100.00	3,082.48	3,071.12	3,070.22	11.45	10.66	-141.60	-560.50	-26.61	751.86	730.04	21.82	34.456	
3,200.00	3,181.63	3,161.70	3,160.77	11.85	10.97	-142.13	-562.63	-26.42	764.46	741.97	22.49	33.995	
3,300.00	3,280.77	3,252.34	3,251.30	12.24	11.27	-142.45	-566.42	-28.56	778.19	755.04	23.15	33.618	
3,400.00	3,380.14	3,343.06	3,341.75	12.63	11.57	-142.64	-571.88	-33.04	791.50	767.70	23.80	33.254	
3,500.00	3,479.84	3,441.04	3,439.25	13.00	11.90	-142.52	-578.93	-39.50	802.74	778.25	24.49	32.781	
3,600.00	3,579.75	3,540.50	3,538.24	13.36	12.23	-142.22	-586.11	-46.08	811.27	786.09	25.18	32.222	
3,700.00	3,679.74	3,640.02	3,637.28	13.70	12.56	-145.28	-593.29	-52.67	817.23	791.36	25.86	31.601	
3,800.00	3,779.74	3,739.54	3,736.32	14.03	12.89	-145.85	-600.48	-59.26	822.58	796.04	26.54	30.989	
3,900.00	3,879.74	3,839.06	3,835.37	14.37	13.23	-146.42	-607.66	-65.85	828.02	800.79	27.23	30.408	
4,000.00	3,979.74	3,938.58	3,934.41	14.71	13.57	-146.98	-614.84	-72.44	833.54	805.62	27.92	29.856	
4,100.00	4,079.74	4,038.10	4,033.45	15.04	13.91	-147.53	-622.03	-79.02	839.14	810.53	28.61	29.330	
4,200.00	4,179.74	4,137.62	4,132.49	15.38	14.26	-148.07	-629.21	-85.61	844.82	815.51	29.30	28.831	
4,300.00	4,279.74	4,237.14	4,231.53	15.72	14.61	-148.60	-636.40	-92.20	850.57	820.57	30.00	28.355	
4,400.00	4,379.74	4,336.66	4,330.57	16.07	14.96	-149.13	-643.58	-98.79	856.39	825.69	30.69	27.901	
4,500.00	4,479.74	4,436.18	4,429.61	16.41	15.31	-149.65	-650.76	-105.38	862.28	830.89	31.39	27.469	
4,600.00	4,579.74	4,535.70	4,528.65	16.75	15.67	-150.17	-657.95	-111.96	868.25	836.16	32.09	27.057	
4,700.00	4,679.74	4,635.22	4,627.69	17.09	16.02	-150.67	-665.13	-118.55	874.28	841.49	32.79	26.663	
4,800.00	4,779.74	4,734.74	4,726.73	17.44	16.38	-151.17	-672.31	-125.14	880.38	846.89	33.49	26.287	
4,900.00	4,879.74	4,834.25	4,825.77	17.78	16.74	-151.66	-679.50	-131.73	886.55	852.36	34.19	25.927	
5,000.00	4,979.74	4,933.77	4,924.81	18.13	17.10	-152.15	-686.68	-138.32	892.78	857.89	34.90	25.583	
5,100.00	5,079.74	5,033.29	5,023.85	18.47	17.46	-152.63	-693.87	-144.90	899.08	863.48	35.60	25.254	

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 #205H
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:	#205H	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)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
5,200.00	5,179.74	5,132.81	5,122.90	18.82	17.82	173.10	-701.05	-151.49	905.44	869.13	36.31	24.938
5,300.00	5,279.74	5,232.33	5,221.94	19.17	18.18	173.57	-708.23	-158.08	911.86	874.84	37.01	24.636
5,400.00	5,379.74	5,331.85	5,320.98	19.51	18.54	174.03	-715.42	-164.67	918.34	880.62	37.72	24.346
5,500.00	5,479.74	5,431.37	5,420.02	19.86	18.90	174.48	-722.60	-171.26	924.87	886.44	38.43	24.068
5,600.00	5,579.74	5,530.89	5,519.06	20.21	19.27	174.93	-729.78	-177.84	931.47	892.33	39.14	23.801
5,700.00	5,679.74	5,630.41	5,618.10	20.56	19.63	175.37	-736.97	-184.43	938.12	898.27	39.84	23.545
5,800.00	5,779.74	5,729.93	5,717.14	20.91	20.00	175.80	-744.15	-191.02	944.82	904.27	40.55	23.298
5,900.00	5,879.74	5,829.45	5,816.18	21.25	20.37	176.23	-751.33	-197.61	951.58	910.32	41.26	23.061
6,000.00	5,979.74	5,928.97	5,915.22	21.60	20.73	176.65	-758.52	-204.20	958.39	916.42	41.97	22.834
6,100.00	6,079.74	6,028.49	6,014.26	21.95	21.10	177.07	-765.70	-210.78	965.25	922.57	42.68	22.614
6,200.00	6,179.74	6,128.00	6,113.30	22.30	21.47	177.48	-772.89	-217.37	972.17	928.77	43.39	22.403
6,300.00	6,279.74	6,227.52	6,212.34	22.65	21.84	177.89	-780.07	-223.96	979.13	935.02	44.11	22.200
6,400.00	6,379.74	6,327.04	6,311.38	23.00	22.21	178.28	-787.25	-230.55	986.14	941.32	44.82	22.004
6,500.00	6,479.74	6,426.56	6,410.42	23.35	22.58	178.68	-794.44	-237.14	993.19	947.66	45.53	21.815
6,600.00	6,579.74	6,526.08	6,509.47	23.70	22.95	179.07	-801.62	-243.72	1,000.30	954.06	46.24	21.632
6,700.00	6,679.74	6,625.60	6,608.51	24.05	23.32	179.45	-808.80	-250.31	1,007.44	960.49	46.95	21.456
6,800.00	6,779.74	6,725.12	6,707.55	24.41	23.69	179.82	-815.99	-256.90	1,014.64	966.97	47.67	21.286
6,900.00	6,879.74	6,825.04	6,808.04	24.76	24.17	-179.78	-823.62	-263.90	1,020.52	971.97	48.55	21.018
7,000.00	6,979.74	6,921.89	6,903.81	25.11	24.65	-179.61	-826.91	-266.92	1,022.96	973.54	49.42	20.700
7,100.00	7,079.74	7,101.18	7,080.74	25.46	25.02	-179.61	-827.00	-267.00	1,023.02	972.88	50.15	20.400
7,200.00	7,179.74	7,201.18	7,180.74	25.81	25.36	-179.61	-827.00	-267.00	1,023.02	972.18	50.84	20.121
7,300.00	7,279.74	7,301.18	7,280.74	26.17	25.70	-179.61	-827.00	-267.00	1,023.02	971.49	51.54	19.850
7,400.00	7,379.74	7,401.18	7,380.74	26.52	26.04	-179.61	-827.00	-267.00	1,023.02	970.79	52.23	19.585
7,500.00	7,479.74	7,501.18	7,480.74	26.87	26.38	-179.61	-827.00	-267.00	1,023.02	970.09	52.93	19.327
7,600.00	7,579.74	7,601.18	7,580.74	27.22	26.72	-179.61	-827.00	-267.00	1,023.02	969.39	53.63	19.076
7,700.00	7,679.74	7,701.18	7,680.74	27.58	27.06	-179.61	-827.00	-267.00	1,023.02	968.70	54.33	18.831
7,800.00	7,779.74	7,801.18	7,780.74	27.93	27.40	-179.61	-827.00	-267.00	1,023.02	968.00	55.03	18.592
7,900.00	7,879.74	7,901.18	7,880.74	28.28	27.74	-179.61	-827.00	-267.00	1,023.02	967.30	55.73	18.358
8,000.00	7,979.74	8,001.18	7,980.74	28.63	28.08	-179.61	-827.00	-267.00	1,023.02	966.60	56.42	18.131
8,100.00	8,079.74	8,101.18	8,080.74	28.99	28.43	-179.61	-827.00	-267.00	1,023.02	965.90	57.12	17.909
8,200.00	8,179.74	8,201.18	8,180.74	29.34	28.77	-179.61	-827.00	-267.00	1,023.02	965.20	57.83	17.692
8,300.00	8,279.74	8,301.18	8,280.74	29.70	29.11	-179.61	-827.00	-267.00	1,023.02	964.50	58.53	17.480
8,400.00	8,379.74	8,401.18	8,380.74	30.05	29.46	-179.61	-827.00	-267.00	1,023.02	963.80	59.23	17.273
8,500.00	8,479.74	8,501.18	8,480.74	30.40	29.80	-179.61	-827.00	-267.00	1,023.02	963.10	59.93	17.071
8,600.00	8,579.74	8,601.18	8,580.74	30.76	30.14	-179.61	-827.00	-267.00	1,023.02	962.39	60.63	16.873
8,700.00	8,679.74	8,701.18	8,680.74	31.11	30.49	-179.61	-827.00	-267.00	1,023.02	961.69	61.33	16.680
8,800.00	8,779.74	8,801.65	8,780.27	31.44	30.84	73.47	-827.00	-267.00	1,020.60	958.59	62.01	16.459
8,900.00	8,875.84	8,905.08	8,876.84	31.73	31.19	75.48	-827.00	-267.00	1,013.55	950.88	62.67	16.173
9,000.00	8,966.53	8,985.61	8,967.53	32.01	31.47	78.60	-827.00	-267.00	1,003.26	940.03	63.23	15.867
9,100.00	9,048.57	9,067.65	9,049.57	32.28	31.75	82.38	-827.00	-267.00	991.92	928.13	63.79	15.550
9,200.00	9,119.47	9,138.55	9,120.47	32.57	32.00	86.23	-827.00	-267.00	982.31	917.98	64.32	15.272
9,300.00	9,177.08	9,203.84	9,178.08	32.91	32.22	89.46	-827.00	-267.00	977.40	912.52	64.88	15.065
9,320.80	9,187.23	9,206.31	9,188.23	33.00	32.23	90.00	-827.00	-267.00	977.23	912.26	64.97	15.041
9,400.00	9,219.65	9,238.74	9,220.65	33.33	32.35	91.46	-827.00	-267.00	979.89	914.50	65.39	14.985
9,500.00	9,245.89	9,264.97	9,246.89	33.84	32.44	91.75	-827.00	-267.00	991.66	925.73	65.93	15.042
9,600.00	9,254.99	9,274.07	9,255.99	34.44	32.47	90.06	-827.00	-267.00	1,013.32	946.88	66.43	15.253
9,700.00	9,255.00	9,274.08	9,256.00	35.15	32.47	90.00	-827.00	-267.00	1,046.55	979.63	66.92	15.639
9,800.00	9,255.00	10,476.12	9,960.00	36.00	37.62	131.93	-827.36	476.95	1,065.79	1,005.68	60.12	17.729
9,900.00	9,255.00	10,574.54	9,960.00	36.97	38.55	132.30	-827.41	575.38	1,052.64	991.50	61.14	17.217
10,000.00	9,255.00	10,673.76	9,960.00	38.06	39.58	132.57	-827.45	674.59	1,043.43	981.01	62.42	16.715
10,100.00	9,255.00	10,773.48	9,960.00	39.24	40.73	132.73	-827.50	774.32	1,038.11	974.14	63.97	16.228
10,199.98	9,255.00	10,873.43	9,960.00	40.50	41.98	132.79	-827.55	874.26	1,036.42	970.64	65.78	15.757

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 #205H
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:	#205H	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		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	9,255.00	10,873.45	9,960.00	40.50	41.98	132.78	-827.55	874.29	1,036.62	970.84	65.78	15.758	
10,300.00	9,255.00	10,973.45	9,960.00	41.85	43.31	132.78	-827.60	974.29	1,036.62	968.84	67.78	15.294	
10,400.00	9,255.00	11,073.45	9,960.00	43.28	44.72	132.78	-827.65	1,074.29	1,036.62	966.72	69.90	14.829	
10,500.00	9,255.00	11,173.45	9,960.00	44.78	46.20	132.78	-827.70	1,174.29	1,036.63	964.49	72.14	14.370	
10,600.00	9,255.00	11,273.45	9,960.00	46.35	47.75	132.78	-827.74	1,274.29	1,036.63	962.15	74.48	13.919	
10,700.00	9,255.00	11,373.45	9,960.00	47.98	49.36	132.78	-827.79	1,374.29	1,036.63	959.72	76.91	13.478	
10,800.00	9,255.00	11,473.45	9,960.00	49.66	51.02	132.78	-827.84	1,474.29	1,036.63	957.20	79.43	13.051	
10,900.00	9,255.00	11,573.45	9,960.00	51.40	52.74	132.78	-827.89	1,574.29	1,036.63	954.61	82.02	12.639	
11,000.00	9,255.00	11,673.45	9,960.00	53.17	54.49	132.78	-827.94	1,674.29	1,036.63	951.94	84.69	12.241	
11,100.00	9,255.00	11,773.45	9,960.00	54.99	56.29	132.78	-827.99	1,774.29	1,036.63	949.22	87.41	11.859	
11,200.00	9,255.00	11,873.45	9,960.00	56.84	58.12	132.78	-828.03	1,874.29	1,036.63	946.43	90.20	11.492	
11,300.00	9,255.00	11,973.45	9,960.00	58.72	59.98	132.78	-828.08	1,974.29	1,036.63	943.59	93.04	11.142	
11,400.00	9,255.00	12,073.45	9,960.00	60.64	61.88	132.78	-828.13	2,074.29	1,036.63	940.71	95.93	10.806	
11,500.00	9,255.00	12,173.45	9,960.00	62.58	63.80	132.78	-828.18	2,174.29	1,036.63	937.78	98.86	10.486	
11,600.00	9,255.00	12,273.45	9,960.00	64.54	65.74	132.78	-828.23	2,274.29	1,036.63	934.80	101.83	10.180	
11,700.00	9,255.00	12,373.45	9,960.00	66.53	67.71	132.77	-828.28	2,374.29	1,036.63	931.80	104.84	9.888	
11,800.00	9,255.00	12,473.45	9,960.00	68.54	69.70	132.77	-828.32	2,474.29	1,036.64	928.76	107.88	9.609	
11,900.00	9,255.00	12,573.45	9,960.00	70.56	71.71	132.77	-828.37	2,574.29	1,036.64	925.69	110.95	9.343	
12,000.00	9,255.00	12,673.45	9,960.00	72.60	73.74	132.77	-828.42	2,674.29	1,036.64	922.59	114.05	9.089	
12,100.00	9,255.00	12,773.45	9,960.00	74.66	75.78	132.77	-828.47	2,774.29	1,036.64	919.46	117.18	8.847	
12,200.00	9,255.00	12,873.45	9,960.00	76.74	77.84	132.77	-828.52	2,874.29	1,036.64	916.31	120.33	8.615	
12,300.00	9,255.00	12,973.45	9,960.00	78.82	79.91	132.77	-828.57	2,974.29	1,036.64	913.14	123.50	8.394	
12,400.00	9,255.00	13,073.45	9,960.00	80.92	82.00	132.77	-828.61	3,074.29	1,036.64	909.95	126.70	8.182	
12,500.00	9,255.00	13,173.45	9,960.00	83.03	84.09	132.77	-828.66	3,174.29	1,036.64	906.73	129.91	7.980	
12,600.00	9,255.00	13,273.45	9,960.00	85.15	86.20	132.77	-828.71	3,274.29	1,036.64	903.50	133.14	7.786	
12,700.00	9,255.00	13,373.45	9,960.00	87.28	88.31	132.77	-828.76	3,374.29	1,036.64	900.26	136.38	7.601	
12,800.00	9,255.00	13,473.45	9,960.00	89.41	90.44	132.77	-828.81	3,474.29	1,036.64	897.00	139.65	7.423	
12,900.00	9,255.00	13,573.45	9,960.00	91.56	92.58	132.77	-828.86	3,574.29	1,036.64	893.72	142.92	7.253	
13,000.00	9,255.00	13,673.45	9,960.00	93.71	94.72	132.77	-828.90	3,674.29	1,036.64	890.43	146.21	7.090	
13,100.00	9,255.00	13,773.45	9,960.00	95.88	96.87	132.77	-828.95	3,774.29	1,036.65	887.13	149.51	6.933	
13,200.00	9,255.00	13,873.45	9,960.00	98.04	99.03	132.77	-829.00	3,874.29	1,036.65	883.82	152.83	6.783	
13,300.00	9,255.00	13,973.45	9,960.00	100.22	101.19	132.77	-829.05	3,974.29	1,036.65	880.50	156.15	6.639	
13,400.00	9,255.00	14,073.45	9,960.00	102.40	103.36	132.77	-829.10	4,074.29	1,036.65	877.16	159.49	6.500	
13,500.00	9,255.00	14,173.45	9,960.00	104.58	105.54	132.77	-829.15	4,174.29	1,036.65	873.82	162.83	6.366	
13,600.00	9,255.00	14,273.45	9,960.00	106.77	107.72	132.77	-829.19	4,274.29	1,036.65	870.47	166.18	6.238	
13,700.00	9,255.00	14,373.45	9,960.00	108.97	109.91	132.77	-829.24	4,374.29	1,036.65	867.11	169.54	6.114	
13,800.00	9,255.00	14,473.45	9,960.00	111.17	112.10	132.77	-829.29	4,474.29	1,036.65	863.74	172.91	5.995	
13,900.00	9,255.00	14,573.45	9,960.00	113.38	114.30	132.77	-829.34	4,574.29	1,036.65	860.36	176.29	5.880	
14,000.00	9,255.00	14,673.45	9,960.00	115.58	116.50	132.77	-829.39	4,674.29	1,036.65	856.98	179.67	5.770	
14,100.00	9,255.00	14,773.45	9,960.00	117.80	118.70	132.77	-829.44	4,774.29	1,036.65	853.59	183.06	5.663	
14,200.00	9,255.00	14,873.45	9,960.00	120.01	120.91	132.77	-829.48	4,874.29	1,036.65	850.19	186.46	5.560	
14,300.00	9,255.00	14,973.45	9,960.00	122.23	123.13	132.77	-829.53	4,974.29	1,036.66	846.79	189.86	5.460	
14,400.00	9,255.00	15,073.45	9,960.00	124.46	125.34	132.77	-829.58	5,074.29	1,036.66	843.38	193.27	5.364	
14,500.00	9,255.00	15,173.45	9,960.00	126.68	127.56	132.77	-829.63	5,174.29	1,036.66	839.97	196.68	5.271	
14,600.00	9,255.00	15,273.45	9,960.00	128.91	129.78	132.77	-829.68	5,274.29	1,036.66	836.55	200.10	5.181	
14,700.00	9,255.00	15,373.45	9,960.00	131.14	132.01	132.77	-829.73	5,374.29	1,036.66	833.13	203.53	5.093	
14,800.00	9,255.00	15,473.45	9,960.00	133.38	134.24	132.77	-829.77	5,474.29	1,036.66	829.70	206.96	5.009	
14,900.00	9,255.00	15,573.45	9,960.00	135.61	136.47	132.77	-829.82	5,574.29	1,036.66	826.27	210.39	4.927	
15,000.00	9,255.00	15,673.45	9,960.00	137.85	138.70	132.77	-829.87	5,674.29	1,036.66	822.84	213.83	4.848	
15,100.00	9,255.00	15,773.45	9,960.00	140.09	140.94	132.77	-829.92	5,774.29	1,036.66	819.40	217.27	4.771	
15,200.00	9,255.00	15,873.45	9,960.00	142.34	143.18	132.77	-829.97	5,874.29	1,036.66	815.95	220.71	4.697	
15,300.00	9,255.00	15,973.45	9,960.00	144.58	145.42	132.77	-830.02	5,974.29	1,036.66	812.50	224.16	4.625	

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 #205H
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:	#205H	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		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	
15,400.00	9,255.00	16,073.45	9,960.00	146.83	147.66	132.77	-830.06	6,074.29	1,036.66	809.05	227.61	4.555	
15,500.00	9,255.00	16,173.45	9,960.00	149.08	149.90	132.77	-830.11	6,174.29	1,036.66	805.60	231.07	4.486	
15,600.00	9,255.00	16,273.45	9,960.00	151.33	152.15	132.77	-830.16	6,274.29	1,036.67	802.14	234.52	4.420	
15,700.00	9,255.00	16,373.45	9,960.00	153.58	154.40	132.77	-830.21	6,374.29	1,036.67	798.68	237.98	4.356	
15,800.00	9,255.00	16,473.45	9,960.00	155.84	156.65	132.77	-830.26	6,474.29	1,036.67	795.22	241.45	4.294	
15,900.00	9,255.00	16,573.45	9,960.00	158.09	158.90	132.77	-830.30	6,574.29	1,036.67	791.75	244.91	4.233	
16,000.00	9,255.00	16,673.45	9,960.00	160.35	161.15	132.77	-830.35	6,674.29	1,036.67	788.28	248.38	4.174	
16,100.00	9,255.00	16,773.45	9,960.00	162.61	163.41	132.77	-830.40	6,774.29	1,036.67	784.81	251.86	4.116	
16,200.00	9,255.00	16,873.45	9,960.00	164.87	165.66	132.77	-830.45	6,874.29	1,036.67	781.34	255.33	4.060	
16,300.00	9,255.00	16,973.45	9,960.00	167.13	167.92	132.77	-830.50	6,974.29	1,036.67	777.86	258.81	4.006	
16,400.00	9,255.00	17,073.45	9,960.00	169.40	170.18	132.77	-830.55	7,074.29	1,036.67	774.39	262.29	3.952	
16,500.00	9,255.00	17,173.45	9,960.00	171.66	172.44	132.77	-830.59	7,174.29	1,036.67	770.91	265.77	3.901	
16,600.00	9,255.00	17,273.45	9,960.00	173.93	174.70	132.77	-830.64	7,274.29	1,036.67	767.42	269.25	3.850	
16,700.00	9,255.00	17,373.45	9,960.00	176.19	176.97	132.77	-830.69	7,374.29	1,036.67	763.94	272.73	3.801	
16,800.00	9,255.00	17,473.45	9,960.00	178.46	179.23	132.77	-830.74	7,474.29	1,036.67	760.45	276.22	3.753	
16,900.00	9,255.00	17,573.45	9,960.00	180.73	181.50	132.77	-830.79	7,574.29	1,036.68	756.97	279.71	3.706	
17,000.00	9,255.00	17,673.45	9,960.00	183.00	183.76	132.77	-830.84	7,674.29	1,036.68	753.48	283.20	3.661	
17,100.00	9,255.00	17,773.45	9,960.00	185.27	186.03	132.77	-830.88	7,774.29	1,036.68	749.98	286.69	3.616	
17,200.00	9,255.00	17,873.45	9,960.00	187.54	188.30	132.77	-830.93	7,874.29	1,036.68	746.49	290.19	3.572	
17,300.00	9,255.00	17,973.45	9,960.00	189.81	190.57	132.77	-830.98	7,974.29	1,036.68	743.00	293.68	3.530	
17,400.00	9,255.00	18,073.45	9,960.00	192.09	192.84	132.77	-831.03	8,074.29	1,036.68	739.50	297.18	3.488	
17,500.00	9,255.00	18,173.45	9,960.00	194.36	195.11	132.77	-831.08	8,174.29	1,036.68	736.00	300.68	3.448	
17,600.00	9,255.00	18,273.45	9,960.00	196.64	197.38	132.77	-831.13	8,274.29	1,036.68	732.50	304.18	3.408	
17,700.00	9,255.00	18,373.45	9,960.00	198.91	199.65	132.77	-831.17	8,374.29	1,036.68	729.00	307.68	3.369	
17,800.00	9,255.00	18,473.45	9,960.00	201.19	201.93	132.77	-831.22	8,474.29	1,036.68	725.50	311.18	3.331	
17,900.00	9,255.00	18,573.45	9,960.00	203.47	204.20	132.77	-831.27	8,574.29	1,036.68	722.00	314.68	3.294	
18,000.00	9,255.00	18,673.45	9,960.00	205.74	206.48	132.77	-831.32	8,674.29	1,036.68	718.49	318.19	3.258	
18,100.00	9,255.00	18,773.45	9,960.00	208.02	208.75	132.77	-831.37	8,774.29	1,036.68	714.99	321.70	3.223	
18,200.00	9,255.00	18,873.45	9,960.00	210.30	211.03	132.77	-831.42	8,874.29	1,036.69	711.48	325.20	3.188	
18,300.00	9,255.00	18,973.45	9,960.00	212.58	213.31	132.77	-831.46	8,974.29	1,036.69	707.97	328.71	3.154	
18,400.00	9,255.00	19,073.45	9,960.00	214.86	215.58	132.77	-831.51	9,074.29	1,036.69	704.47	332.22	3.120	
18,500.00	9,255.00	19,173.45	9,960.00	217.14	217.86	132.77	-831.56	9,174.29	1,036.69	700.96	335.73	3.088	
18,600.00	9,255.00	19,273.45	9,960.00	219.43	220.14	132.77	-831.61	9,274.29	1,036.69	697.44	339.24	3.056	
18,700.00	9,255.00	19,373.45	9,960.00	221.71	222.42	132.77	-831.66	9,374.29	1,036.69	693.93	342.76	3.025	
18,800.00	9,255.00	19,473.45	9,960.00	223.99	224.70	132.77	-831.71	9,474.29	1,036.69	690.42	346.27	2.994	
18,900.00	9,255.00	19,573.45	9,960.00	226.28	226.98	132.77	-831.75	9,574.29	1,036.69	686.91	349.79	2.964	
19,000.00	9,255.00	19,673.45	9,960.00	228.56	229.27	132.77	-831.80	9,674.29	1,036.69	683.39	353.30	2.934	
19,100.00	9,255.00	19,773.45	9,960.00	230.84	231.55	132.77	-831.85	9,774.29	1,036.69	679.87	356.82	2.905	
19,200.00	9,255.00	19,873.45	9,960.00	233.13	233.83	132.77	-831.90	9,874.29	1,036.69	676.36	360.34	2.877	
19,300.00	9,255.00	19,973.45	9,960.00	235.41	236.11	132.77	-831.95	9,974.29	1,036.69	672.84	363.85	2.849	
19,400.00	9,255.00	20,073.45	9,960.00	236.87	238.40	132.77	-832.00	10,074.29	1,036.69	669.38	366.71	2.827	
19,407.34	9,255.00	20,080.80	9,960.00	236.98	238.56	132.77	-832.00	10,081.63	1,036.69	669.77	366.92	2.825 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 #205H
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:	#205H	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: 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	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	0.13	0.00	220.00	0.00	220.00	219.74	0.26	858.344	
200.00	200.00	200.00	200.00	0.49	0.49	0.00	220.00	0.00	220.00	219.03	0.97	226.047	
300.00	300.00	300.00	300.00	0.85	0.85	0.00	220.00	0.00	220.00	218.31	1.69	130.163	
400.00	400.00	400.00	400.00	1.20	1.20	0.00	220.00	0.00	220.00	217.59	2.41	91.395	
500.00	500.00	500.00	500.00	1.56	1.56	0.00	220.00	0.00	220.00	216.88	3.12	70.421	
600.00	600.00	600.00	600.00	1.92	1.92	0.00	220.00	0.00	220.00	216.16	3.84	57.276	
700.00	700.00	700.00	700.00	2.28	2.28	0.00	220.00	0.00	220.00	215.44	4.56	48.267	
800.00	800.00	800.00	800.00	2.64	2.64	0.00	220.00	0.00	220.00	214.73	5.27	41.707	
900.00	899.98	900.02	899.98	2.99	3.00	53.37	220.00	0.00	218.95	212.96	5.99	36.560	
1,000.00	999.84	1,000.16	999.84	3.35	3.35	54.53	220.00	0.00	215.87	209.17	6.70	32.206	
1,100.00	1,099.45	1,100.55	1,099.45	3.71	3.71	56.54	220.00	0.00	210.93	203.50	7.42	28.421	
1,200.00	1,198.72	1,201.28	1,198.72	4.07	4.08	59.43	220.00	0.00	204.49	196.34	8.15	25.098	
1,300.00	1,297.86	1,302.14	1,297.86	4.44	4.44	62.66	220.00	0.00	198.13	189.25	8.88	22.316	
1,400.00	1,397.01	1,402.99	1,397.01	4.82	4.80	66.09	220.00	0.00	192.45	182.83	9.61	20.016	
1,500.00	1,496.15	1,503.85	1,496.15	5.20	5.16	69.70	220.00	0.00	187.50	177.14	10.35	18.107	
1,600.00	1,595.30	1,604.70	1,595.30	5.58	5.52	73.50	220.00	0.00	183.35	172.25	11.10	16.519	
1,700.00	1,694.44	1,705.56	1,694.44	5.96	5.88	77.45	220.00	0.00	180.05	168.20	11.85	15.199	
1,800.00	1,793.59	1,806.41	1,793.59	6.35	6.25	81.53	220.00	0.00	177.65	165.05	12.59	14.105	
1,900.00	1,892.74	1,907.27	1,892.74	6.74	6.61	85.69	220.00	0.00	176.18	162.84	13.34	13.203	
2,000.00	1,991.88	1,991.88	1,991.88	7.13	6.91	89.90	220.00	0.00	175.68	161.64	14.03	12.517	
2,002.33	1,994.19	1,994.19	1,994.19	7.14	6.92	90.00	220.00	0.00	175.68	161.62	14.05	12.502	CC, ES
2,100.00	2,091.03	2,087.05	2,087.04	7.52	7.25	93.66	221.32	-0.03	177.16	162.40	14.76	12.004	
2,200.00	2,190.17	2,182.17	2,182.05	7.91	7.59	96.63	225.79	-0.14	181.76	166.28	15.47	11.746	
2,300.00	2,289.32	2,281.11	2,280.76	8.30	7.95	99.10	232.46	-0.29	188.23	172.02	16.21	11.611	
2,400.00	2,388.46	2,380.57	2,380.00	8.69	8.30	101.42	239.19	-0.45	195.05	178.10	16.95	11.507	
2,500.00	2,487.61	2,480.04	2,479.23	9.08	8.66	103.57	245.93	-0.61	202.17	184.48	17.69	11.427	
2,600.00	2,586.75	2,579.50	2,578.47	9.48	9.02	105.58	252.66	-0.77	209.56	191.13	18.43	11.369	
2,700.00	2,685.90	2,678.97	2,677.71	9.87	9.37	107.45	259.39	-0.93	217.18	198.01	19.17	11.328	
2,800.00	2,785.04	2,778.44	2,776.95	10.27	9.73	109.19	266.12	-1.09	225.02	205.11	19.91	11.301	
2,900.00	2,884.19	2,877.90	2,876.19	10.66	10.09	110.81	272.86	-1.24	233.06	212.40	20.65	11.285	
3,000.00	2,983.34	2,977.37	2,975.42	11.06	10.45	112.32	279.59	-1.40	241.26	219.87	21.39	11.279	
3,100.00	3,082.48	3,076.84	3,074.66	11.45	10.81	113.74	286.32	-1.56	249.63	227.50	22.13	11.280	
3,200.00	3,181.63	3,176.30	3,173.90	11.85	11.17	115.06	293.05	-1.72	258.13	235.26	22.87	11.287	
3,300.00	3,280.77	3,275.77	3,273.14	12.24	11.53	116.30	299.79	-1.88	266.77	243.16	23.61	11.299	
3,400.00	3,380.14	3,375.38	3,372.52	12.63	11.89	117.25	306.53	-2.04	274.64	250.30	24.34	11.282	
3,500.00	3,479.84	3,475.17	3,472.08	13.00	12.26	117.50	313.28	-2.19	280.96	255.88	25.07	11.206	
3,600.00	3,579.75	3,575.03	3,571.71	13.36	12.62	117.09	320.04	-2.35	285.67	259.88	25.79	11.075	
3,700.00	3,679.74	3,674.83	3,671.28	13.70	12.98	63.07	326.80	-2.51	288.93	262.42	26.51	10.901	
3,800.00	3,779.74	3,774.60	3,770.82	14.03	13.35	61.87	333.55	-2.67	291.92	264.70	27.21	10.726	
3,900.00	3,879.74	3,874.37	3,870.36	14.37	13.71	60.70	340.30	-2.83	295.04	267.11	27.93	10.565	
4,000.00	3,979.74	3,974.14	3,969.91	14.71	14.07	59.56	347.06	-2.99	298.28	269.64	28.64	10.416	
4,100.00	4,079.74	4,073.91	4,069.45	15.04	14.44	58.43	353.81	-3.15	301.63	272.29	29.35	10.279	
4,200.00	4,179.74	4,173.68	4,168.99	15.38	14.80	57.34	360.56	-3.31	305.10	275.05	30.06	10.151	
4,300.00	4,279.74	4,273.45	4,268.53	15.72	15.17	56.26	367.32	-3.47	308.68	277.91	30.77	10.033	
4,400.00	4,379.74	4,373.22	4,368.07	16.07	15.53	55.22	374.07	-3.63	312.37	280.89	31.48	9.923	
4,500.00	4,479.74	4,472.99	4,467.61	16.41	15.90	54.20	380.82	-3.78	316.15	283.96	32.19	9.822	
4,600.00	4,579.74	4,577.00	4,571.43	16.75	16.27	53.26	387.11	-3.93	319.63	286.71	32.93	9.708	
4,700.00	4,679.74	4,683.94	4,678.32	17.09	16.66	52.86	389.92	-4.00	321.16	287.50	33.66	9.540	
4,800.00	4,779.74	4,785.36	4,779.74	17.44	17.02	52.84	390.00	-4.00	321.20	286.83	34.37	9.346	
4,900.00	4,879.74	4,885.36	4,879.74	17.78	17.37	52.84	390.00	-4.00	321.20	286.13	35.07	9.159	
5,000.00	4,979.74	4,985.36	4,979.74	18.13	17.73	52.84	390.00	-4.00	321.20	285.43	35.77	8.979	

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 #205H
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:	#205H	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													0.00 usft
Reference													Offset Well Error:
Offset													0.00 usft
Semi Major Axis													
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
5,100.00	5,079.74	5,085.36	5,079.74	18.47	18.08	52.84	390.00	-4.00	321.20	284.73	36.47	8.806	
5,200.00	5,179.74	5,185.36	5,179.74	18.82	18.44	52.84	390.00	-4.00	321.20	284.03	37.18	8.640	
5,300.00	5,279.74	5,285.36	5,279.74	19.17	18.79	52.84	390.00	-4.00	321.20	283.32	37.88	8.480	
5,400.00	5,379.74	5,385.36	5,379.74	19.51	19.15	52.84	390.00	-4.00	321.20	282.62	38.58	8.325	
5,500.00	5,479.74	5,485.36	5,479.74	19.86	19.51	52.84	390.00	-4.00	321.20	281.92	39.29	8.176	
5,600.00	5,579.74	5,585.36	5,579.74	20.21	19.86	52.84	390.00	-4.00	321.20	281.21	39.99	8.032	
5,700.00	5,679.74	5,685.36	5,679.74	20.56	20.22	52.84	390.00	-4.00	321.20	280.51	40.70	7.893	
5,800.00	5,779.74	5,785.36	5,779.74	20.91	20.57	52.84	390.00	-4.00	321.20	279.80	41.40	7.758	
5,900.00	5,879.74	5,885.36	5,879.74	21.25	20.93	52.84	390.00	-4.00	321.20	279.10	42.11	7.628	
6,000.00	5,979.74	5,985.36	5,979.74	21.60	21.29	52.84	390.00	-4.00	321.20	278.39	42.81	7.502	
6,100.00	6,079.74	6,085.36	6,079.74	21.95	21.64	52.84	390.00	-4.00	321.20	277.68	43.52	7.381	
6,200.00	6,179.74	6,185.36	6,179.74	22.30	22.00	52.84	390.00	-4.00	321.20	276.98	44.23	7.263	
6,300.00	6,279.74	6,285.36	6,279.74	22.65	22.36	52.84	390.00	-4.00	321.20	276.27	44.93	7.148	
6,308.22	6,287.96	6,293.57	6,287.96	22.68	22.38	52.84	390.00	-4.00	321.20	276.21	44.99	7.139	
6,400.00	6,379.74	6,384.33	6,379.74	23.00	22.63	52.98	390.22	-2.43	323.28	277.80	45.49	7.107 SF	
6,500.00	6,479.74	6,485.36	6,479.74	23.35	22.86	53.71	391.44	6.15	334.88	289.27	45.61	7.342	
6,600.00	6,579.74	6,585.36	6,579.74	23.70	23.07	54.91	393.60	21.27	356.52	311.18	45.34	7.864	
6,700.00	6,679.74	6,685.36	6,679.74	24.05	23.25	56.31	396.33	40.46	387.80	343.20	44.60	8.695	
6,800.00	6,779.74	6,785.36	6,779.74	24.41	23.42	57.70	399.34	61.63	428.11	384.64	43.47	9.849	
6,900.00	6,879.74	6,885.36	6,879.74	24.76	23.59	59.17	402.90	86.62	476.43	434.07	42.36	11.248	
7,000.00	6,979.74	6,985.36	6,979.74	25.11	23.78	60.65	406.97	115.24	531.81	490.43	41.38	12.853	
7,100.00	7,079.74	7,085.36	7,079.74	25.46	23.94	61.82	410.56	140.47	593.39	553.24	40.15	14.781	
7,200.00	7,179.74	7,185.36	7,179.74	25.81	24.08	62.82	413.98	164.48	660.17	621.23	38.95	16.951	
7,300.00	7,279.74	7,285.36	7,279.74	26.17	24.19	63.51	416.54	182.47	731.41	693.82	37.59	19.456	
7,400.00	7,379.74	7,385.36	7,379.74	26.52	24.35	64.41	420.20	208.18	806.22	769.41	36.80	21.906	
7,500.00	7,479.74	7,485.36	7,479.74	26.87	24.42	64.82	421.96	220.56	884.31	848.72	35.59	24.844	
7,600.00	7,579.74	7,585.36	7,579.74	27.22	24.58	65.59	425.54	245.70	964.80	929.72	35.08	27.505	
7,700.00	7,679.74	7,685.36	7,679.74	27.58	24.68	66.03	427.75	261.26	1,047.62	1,013.29	34.34	30.511	
7,800.00	7,779.74	7,785.36	7,779.74	27.93	24.79	66.47	430.06	277.45	1,132.33	1,098.57	33.75	33.546	
7,900.00	7,879.74	7,885.36	7,879.74	28.28	24.97	67.14	433.87	304.26	1,218.92	1,185.34	33.59	36.290	
8,000.00	7,979.74	7,985.36	7,979.74	28.63	24.97	67.14	433.87	304.26	1,306.36	1,273.57	32.78	39.850	
8,100.00	8,079.74	8,085.36	8,079.74	28.99	24.97	67.14	433.87	304.26	1,395.48	1,363.35	32.12	43.442	
8,200.00	8,179.74	8,185.36	8,179.74	29.34	25.13	67.67	437.11	327.00	1,485.20	1,453.10	32.10	46.274	
8,300.00	8,279.74	8,285.36	8,279.74	29.70	25.29	68.15	440.27	349.23	1,576.25	1,544.16	32.09	49.115	
8,400.00	8,379.74	8,385.36	8,379.74	30.05	25.29	68.15	440.27	349.23	1,667.69	1,635.99	31.70	52.615	
8,500.00	8,479.74	8,485.36	8,479.74	30.40	25.29	68.15	440.27	349.23	1,760.06	1,728.68	31.38	56.083	
8,600.00	8,579.74	8,585.36	8,579.74	30.76	25.29	68.15	440.27	349.23	1,853.22	1,822.08	31.14	59.509	
8,700.00	8,679.74	8,685.36	8,679.74	31.11	25.45	68.58	443.31	370.55	1,946.46	1,915.16	31.30	62.189	
8,800.00	8,779.74	8,785.36	8,779.74	31.44	25.64	-27.01	446.90	395.83	2,038.20	2,006.75	31.45	64.804	
8,900.00	8,875.84	8,881.84	8,875.84	31.73	25.64	-20.57	446.90	395.83	2,122.91	2,091.77	31.14	68.180	
9,000.00	8,966.53	8,972.53	8,966.53	32.01	25.64	-16.73	446.90	395.83	2,199.67	2,168.88	30.79	71.451	
9,100.00	9,048.57	9,054.57	9,048.57	32.28	25.81	-14.48	449.78	416.04	2,266.58	2,235.91	30.67	73.901	
9,200.00	9,119.47	9,125.47	9,119.47	32.57	26.03	-13.14	453.72	443.70	2,322.67	2,292.04	30.63	75.833	
9,300.00	9,177.08	9,183.08	9,177.08	32.91	26.03	-12.07	453.72	443.70	2,366.35	2,336.02	30.33	78.025	
9,400.00	9,219.65	9,225.65	9,219.65	33.33	26.21	-11.60	456.61	464.00	2,397.40	2,367.08	30.32	79.071	
9,500.00	9,245.89	9,251.89	9,245.89	33.84	26.45	-11.52	460.66	492.49	2,415.33	2,384.85	30.48	79.236	
9,600.00	9,254.99	9,260.99	9,254.99	34.44	26.45	-11.44	460.66	492.49	2,419.46	2,388.90	30.56	79.181	
9,700.00	9,255.00	9,261.00	9,255.00	35.15	26.67	-11.63	463.93	515.47	2,417.70	2,386.77	30.93	78.156	
9,721.53	9,255.00	9,261.00	9,721.53	35.33	26.70	-11.66	464.47	519.28	2,417.65	2,386.62	31.02	77.929	
9,800.00	9,255.00	9,261.00	9,800.00	36.00	26.91	-11.88	467.68	541.81	2,418.46	2,387.04	31.42	76.974	
9,900.00	9,255.00	9,261.00	9,900.00	36.97	27.00	-12.03	469.08	551.62	2,421.41	2,389.51	31.90	75.906	
10,000.00	9,255.00	9,261.00	10,000.00	38.06	27.62	-12.53	477.17	613.24	2,426.40	2,393.72	32.68	74.238	

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 #205H
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:	#205H	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) - #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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
10,100.00	9,255.00	7,410.47	6,889.00	39.24	29.18	-13.11	488.06	751.19	2,429.80	2,395.98	33.82	71.855
10,200.00	9,255.00	7,534.08	6,889.00	40.50	30.78	-13.23	489.78	874.77	2,430.55	2,395.67	34.87	69.694
10,300.00	9,255.00	7,634.08	6,889.00	41.85	32.20	-13.23	489.76	974.77	2,430.55	2,394.70	35.86	67.782
10,400.00	9,255.00	7,734.08	6,889.00	43.28	33.71	-13.24	489.74	1,074.77	2,430.56	2,393.65	36.91	65.848
10,500.00	9,255.00	7,834.08	6,889.00	44.78	35.31	-13.24	489.72	1,174.77	2,430.57	2,392.54	38.03	63.914
10,600.00	9,255.00	7,934.08	6,889.00	46.35	36.99	-13.24	489.70	1,274.77	2,430.57	2,391.37	39.20	62.000
10,700.00	9,255.00	8,034.08	6,889.00	47.98	38.73	-13.24	489.68	1,374.77	2,430.58	2,390.15	40.43	60.119
10,800.00	9,255.00	8,134.08	6,889.00	49.66	40.53	-13.24	489.66	1,474.77	2,430.59	2,388.88	41.70	58.282
10,900.00	9,255.00	8,234.08	6,889.00	51.40	42.37	-13.24	489.64	1,574.77	2,430.59	2,387.57	43.02	56.497
11,000.00	9,255.00	8,334.08	6,889.00	53.17	44.26	-13.24	489.62	1,674.77	2,430.60	2,386.22	44.38	54.770
11,100.00	9,255.00	8,434.08	6,889.00	54.99	46.19	-13.24	489.60	1,774.77	2,430.61	2,384.84	45.77	53.104
11,200.00	9,255.00	8,534.08	6,889.00	56.84	48.16	-13.24	489.58	1,874.77	2,430.61	2,383.42	47.20	51.501
11,300.00	9,255.00	8,634.08	6,889.00	58.72	50.15	-13.24	489.56	1,974.77	2,430.62	2,381.97	48.65	49.962
11,400.00	9,255.00	8,734.08	6,889.00	60.64	52.17	-13.24	489.54	2,074.77	2,430.63	2,380.49	50.13	48.486
11,500.00	9,255.00	8,834.08	6,889.00	62.58	54.21	-13.24	489.52	2,174.77	2,430.63	2,379.00	51.64	47.072
11,600.00	9,255.00	8,934.08	6,889.00	64.54	56.27	-13.24	489.51	2,274.77	2,430.64	2,377.47	53.16	45.719
11,700.00	9,255.00	9,034.08	6,889.00	66.53	58.35	-13.24	489.49	2,374.77	2,430.64	2,375.93	54.71	44.425
11,800.00	9,255.00	9,134.08	6,889.00	68.54	60.45	-13.24	489.47	2,474.77	2,430.65	2,374.37	56.28	43.188
11,900.00	9,255.00	9,234.08	6,889.00	70.56	62.56	-13.24	489.45	2,574.77	2,430.66	2,372.79	57.87	42.005
12,000.00	9,255.00	9,334.08	6,889.00	72.60	64.68	-13.25	489.43	2,674.77	2,430.66	2,371.20	59.47	40.874
12,100.00	9,255.00	9,434.08	6,889.00	74.66	66.82	-13.25	489.41	2,774.77	2,430.67	2,369.59	61.08	39.793
12,200.00	9,255.00	9,534.08	6,889.00	76.74	68.97	-13.25	489.39	2,874.77	2,430.68	2,367.96	62.71	38.759
12,300.00	9,255.00	9,634.08	6,889.00	78.82	71.13	-13.25	489.37	2,974.77	2,430.68	2,366.33	64.35	37.770
12,400.00	9,255.00	9,734.08	6,889.00	80.92	73.30	-13.25	489.35	3,074.77	2,430.69	2,364.68	66.01	36.824
12,500.00	9,255.00	9,834.08	6,889.00	83.03	75.47	-13.25	489.33	3,174.77	2,430.70	2,363.02	67.67	35.919
12,600.00	9,255.00	9,934.08	6,889.00	85.15	77.66	-13.25	489.31	3,274.77	2,430.70	2,361.36	69.35	35.051
12,700.00	9,255.00	10,034.08	6,889.00	87.28	79.85	-13.25	489.29	3,374.77	2,430.71	2,359.68	71.03	34.220
12,800.00	9,255.00	10,134.08	6,889.00	89.41	82.04	-13.25	489.27	3,474.77	2,430.71	2,357.99	72.72	33.424
12,900.00	9,255.00	10,234.08	6,889.00	91.56	84.25	-13.25	489.25	3,574.77	2,430.72	2,356.30	74.42	32.660
13,000.00	9,255.00	10,334.08	6,889.00	93.71	86.46	-13.25	489.24	3,674.77	2,430.73	2,354.59	76.13	31.927
13,100.00	9,255.00	10,434.08	6,889.00	95.88	88.67	-13.25	489.22	3,774.77	2,430.73	2,352.89	77.85	31.224
13,200.00	9,255.00	10,534.08	6,889.00	98.04	90.89	-13.25	489.20	3,874.77	2,430.74	2,351.17	79.57	30.548
13,300.00	9,255.00	10,634.08	6,889.00	100.22	93.11	-13.25	489.18	3,974.77	2,430.75	2,349.45	81.30	29.899
13,400.00	9,255.00	10,734.08	6,889.00	102.40	95.34	-13.25	489.16	4,074.77	2,430.75	2,347.72	83.03	29.274
13,500.00	9,255.00	10,834.08	6,889.00	104.58	97.57	-13.26	489.14	4,174.77	2,430.76	2,345.99	84.77	28.673
13,600.00	9,255.00	10,934.08	6,889.00	106.77	99.80	-13.26	489.12	4,274.77	2,430.77	2,344.25	86.52	28.095
13,700.00	9,255.00	11,034.08	6,889.00	108.97	102.04	-13.26	489.10	4,374.77	2,430.77	2,342.50	88.27	27.538
13,800.00	9,255.00	11,134.08	6,889.00	111.17	104.28	-13.26	489.08	4,474.77	2,430.78	2,340.76	90.02	27.002
13,900.00	9,255.00	11,234.08	6,889.00	113.38	106.53	-13.26	489.06	4,574.77	2,430.79	2,339.00	91.78	26.484
14,000.00	9,255.00	11,334.08	6,889.00	115.58	108.77	-13.26	489.04	4,674.77	2,430.79	2,337.25	93.55	25.985
14,100.00	9,255.00	11,434.08	6,889.00	117.80	111.02	-13.26	489.02	4,774.77	2,430.80	2,335.49	95.31	25.503
14,200.00	9,255.00	11,534.08	6,889.00	120.01	113.27	-13.26	489.00	4,874.77	2,430.80	2,333.72	97.08	25.038
14,300.00	9,255.00	11,634.08	6,889.00	122.23	115.53	-13.26	488.98	4,974.77	2,430.81	2,331.95	98.86	24.589
14,400.00	9,255.00	11,734.08	6,889.00	124.46	117.78	-13.26	488.97	5,074.77	2,430.82	2,330.18	100.64	24.155
14,500.00	9,255.00	11,834.08	6,889.00	126.68	120.04	-13.26	488.95	5,174.77	2,430.82	2,328.41	102.42	23.735
14,600.00	9,255.00	11,934.08	6,889.00	128.91	122.30	-13.26	488.93	5,274.77	2,430.83	2,326.63	104.20	23.329
14,700.00	9,255.00	12,034.08	6,889.00	131.14	124.56	-13.26	488.91	5,374.77	2,430.84	2,324.85	105.99	22.935
14,800.00	9,255.00	12,134.08	6,889.00	133.38	126.82	-13.26	488.89	5,474.77	2,430.84	2,323.07	107.78	22.555
14,900.00	9,255.00	12,234.08	6,889.00	135.61	129.09	-13.26	488.87	5,574.77	2,430.85	2,321.28	109.57	22.186
15,000.00	9,255.00	12,334.08	6,889.00	137.85	131.36	-13.26	488.85	5,674.77	2,430.86	2,319.49	111.36	21.829
15,100.00	9,255.00	12,434.08	6,889.00	140.09	133.62	-13.27	488.83	5,774.77	2,430.86	2,317.70	113.16	21.482
15,200.00	9,255.00	12,534.08	6,889.00	142.34	135.89	-13.27	488.81	5,874.77	2,430.87	2,315.91	114.96	21.146

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 #205H
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:	#205H	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:	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)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,300.00	9,255.00	12,634.08	6,889.00	144.58	138.16	-13.27	488.79	5,974.77	2,430.88	2,314.12	116.76	20.820	
15,400.00	9,255.00	12,734.08	6,889.00	146.83	140.44	-13.27	488.77	6,074.77	2,430.88	2,312.32	118.56	20.503	
15,500.00	9,255.00	12,834.08	6,889.00	149.08	142.71	-13.27	488.75	6,174.77	2,430.89	2,310.52	120.37	20.196	
15,600.00	9,255.00	12,934.08	6,889.00	151.33	144.98	-13.27	488.73	6,274.77	2,430.89	2,308.72	122.17	19.897	
15,700.00	9,255.00	13,034.08	6,889.00	153.58	147.26	-13.27	488.71	6,374.77	2,430.90	2,306.92	123.98	19.607	
15,800.00	9,255.00	13,134.08	6,889.00	155.84	149.53	-13.27	488.70	6,474.77	2,430.91	2,305.12	125.79	19.325	
15,900.00	9,255.00	13,234.08	6,889.00	158.09	151.81	-13.27	488.68	6,574.77	2,430.91	2,303.31	127.60	19.050	
16,000.00	9,255.00	13,334.08	6,889.00	160.35	154.09	-13.27	488.66	6,674.77	2,430.92	2,301.50	129.42	18.784	
16,100.00	9,255.00	13,434.08	6,889.00	162.61	156.37	-13.27	488.64	6,774.77	2,430.93	2,299.69	131.23	18.524	
16,200.00	9,255.00	13,534.08	6,889.00	164.87	158.65	-13.27	488.62	6,874.77	2,430.93	2,297.88	133.05	18.271	
16,300.00	9,255.00	13,634.08	6,889.00	167.13	160.93	-13.27	488.60	6,974.77	2,430.94	2,296.07	134.87	18.025	
16,400.00	9,255.00	13,734.08	6,889.00	169.40	163.21	-13.27	488.58	7,074.77	2,430.95	2,294.26	136.69	17.785	
16,500.00	9,255.00	13,834.08	6,889.00	171.66	165.49	-13.27	488.56	7,174.77	2,430.95	2,292.45	138.51	17.551	
16,600.00	9,255.00	13,934.08	6,889.00	173.93	167.78	-13.28	488.54	7,274.77	2,430.96	2,290.63	140.33	17.323	
16,700.00	9,255.00	14,034.08	6,889.00	176.19	170.06	-13.28	488.52	7,374.77	2,430.97	2,288.81	142.15	17.101	
16,800.00	9,255.00	14,134.08	6,889.00	178.46	172.34	-13.28	488.50	7,474.77	2,430.97	2,287.00	143.98	16.885	
16,900.00	9,255.00	14,234.08	6,889.00	180.73	174.63	-13.28	488.48	7,574.77	2,430.98	2,285.18	145.80	16.673	
17,000.00	9,255.00	14,334.08	6,889.00	183.00	176.91	-13.28	488.46	7,674.77	2,430.98	2,283.36	147.63	16.467	
17,100.00	9,255.00	14,434.08	6,889.00	185.27	179.20	-13.28	488.44	7,774.77	2,430.99	2,281.54	149.46	16.266	
17,200.00	9,255.00	14,534.08	6,889.00	187.54	181.49	-13.28	488.43	7,874.77	2,431.00	2,279.71	151.28	16.069	
17,300.00	9,255.00	14,634.08	6,889.00	189.81	183.77	-13.28	488.41	7,974.77	2,431.00	2,277.89	153.11	15.877	
17,400.00	9,255.00	14,734.08	6,889.00	192.09	186.06	-13.28	488.39	8,074.77	2,431.01	2,276.07	154.94	15.690	
17,500.00	9,255.00	14,834.08	6,889.00	194.36	188.35	-13.28	488.37	8,174.77	2,431.02	2,274.24	156.78	15.506	
17,600.00	9,255.00	14,934.08	6,889.00	196.64	190.64	-13.28	488.35	8,274.77	2,431.02	2,272.41	158.61	15.327	
17,700.00	9,255.00	15,034.08	6,889.00	198.91	192.93	-13.28	488.33	8,374.77	2,431.03	2,270.59	160.44	15.152	
17,800.00	9,255.00	15,134.08	6,889.00	201.19	195.22	-13.28	488.31	8,474.77	2,431.04	2,268.76	162.27	14.981	
17,900.00	9,255.00	15,234.08	6,889.00	203.47	197.51	-13.28	488.29	8,574.77	2,431.04	2,266.93	164.11	14.814	
18,000.00	9,255.00	15,334.08	6,889.00	205.74	199.80	-13.28	488.27	8,674.77	2,431.05	2,265.10	165.95	14.650	
18,100.00	9,255.00	15,434.08	6,889.00	208.02	202.09	-13.28	488.25	8,774.77	2,431.05	2,263.27	167.78	14.489	
18,200.00	9,255.00	15,534.08	6,889.00	210.30	204.38	-13.29	488.23	8,874.77	2,431.06	2,261.44	169.62	14.333	
18,300.00	9,255.00	15,634.08	6,889.00	212.58	206.67	-13.29	488.21	8,974.77	2,431.07	2,259.61	171.46	14.179	
18,400.00	9,255.00	15,734.08	6,889.00	214.86	208.97	-13.29	488.19	9,074.77	2,431.07	2,257.78	173.29	14.029	
18,500.00	9,255.00	15,834.08	6,889.00	217.14	211.26	-13.29	488.17	9,174.77	2,431.08	2,255.95	175.13	13.881	
18,600.00	9,255.00	15,934.08	6,889.00	219.43	213.55	-13.29	488.16	9,274.77	2,431.09	2,254.11	176.97	13.737	
18,700.00	9,255.00	16,034.08	6,889.00	221.71	215.85	-13.29	488.14	9,374.77	2,431.09	2,252.28	178.81	13.596	
18,800.00	9,255.00	16,134.08	6,889.00	223.99	218.14	-13.29	488.12	9,474.77	2,431.10	2,250.45	180.65	13.457	
18,900.00	9,255.00	16,234.08	6,889.00	226.28	220.43	-13.29	488.10	9,574.77	2,431.11	2,248.61	182.50	13.321	
19,000.00	9,255.00	16,334.08	6,889.00	228.56	222.73	-13.29	488.08	9,674.77	2,431.11	2,246.77	184.34	13.188	
19,100.00	9,255.00	16,434.08	6,889.00	230.84	225.02	-13.29	488.06	9,774.77	2,431.12	2,244.94	186.18	13.058	
19,200.00	9,255.00	16,534.08	6,889.00	233.13	227.32	-13.29	488.04	9,874.77	2,431.13	2,243.10	188.02	12.930	
19,300.00	9,255.00	16,634.08	6,889.00	235.41	229.61	-13.29	488.02	9,974.77	2,431.13	2,241.26	189.87	12.804	
19,400.00	9,255.00	16,734.08	6,889.00	236.87	231.91	-13.29	488.00	10,074.77	2,431.14	2,239.84	191.30	12.709	
19,407.34	9,255.00	16,741.42	6,889.00	236.98	232.08	-13.29	488.00	10,082.11	2,431.14	2,239.74	191.40	12.702	

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 #205H
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:	#205H	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
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	0.00	140.00	0.00	140.00			
100.00	100.00	100.00	100.00	0.13	0.13	0.00	140.00	0.00	140.00	139.74	0.26	546.219
200.00	200.00	200.00	200.00	0.49	0.49	0.00	140.00	0.00	140.00	139.03	0.97	143.848
300.00	300.00	300.00	300.00	0.85	0.85	0.00	140.00	0.00	140.00	138.31	1.69	82.831
400.00	400.00	400.00	400.00	1.20	1.20	0.00	140.00	0.00	140.00	137.59	2.41	58.160
500.00	500.00	500.00	500.00	1.56	1.56	0.00	140.00	0.00	140.00	136.88	3.12	44.813
600.00	600.00	600.00	600.00	1.92	1.92	0.00	140.00	0.00	140.00	136.16	3.84	36.449
700.00	700.00	700.00	700.00	2.28	2.28	0.00	140.00	0.00	140.00	135.44	4.56	30.715
800.00	800.00	800.00	800.00	2.64	2.64	0.00	140.00	0.00	140.00	134.73	5.27	26.541
900.00	899.98	900.02	899.98	2.99	3.00	53.58	140.00	0.00	138.96	132.97	5.99	23.202
1,000.00	999.84	1,000.16	999.84	3.35	3.35	55.40	140.00	0.00	135.91	129.21	6.70	20.277
1,100.00	1,099.45	1,100.55	1,099.45	3.71	3.71	58.61	140.00	0.00	131.15	123.73	7.42	17.672
1,200.00	1,198.72	1,201.28	1,198.72	4.07	4.08	63.38	140.00	0.00	125.26	117.11	8.15	15.374
1,300.00	1,297.86	1,302.14	1,297.86	4.44	4.44	68.92	140.00	0.00	119.94	111.06	8.88	13.508
1,400.00	1,397.01	1,402.99	1,397.01	4.82	4.80	74.90	140.00	0.00	115.86	106.24	9.62	12.047
1,500.00	1,496.15	1,503.85	1,496.15	5.20	5.16	81.24	140.00	0.00	113.13	102.78	10.36	10.923
1,600.00	1,595.30	1,604.70	1,595.30	5.58	5.52	87.80	140.00	0.00	111.88	100.78	11.10	10.078
1,633.16	1,628.18	1,628.18	1,628.18	5.71	5.61	90.00	140.00	0.00	111.79	100.48	11.31	9.883 CC
1,700.00	1,694.44	1,705.56	1,694.44	5.96	5.88	94.42	140.00	0.00	112.13	100.29	11.84	9.468 ES
1,800.00	1,793.59	1,806.41	1,793.59	6.35	6.25	100.92	140.00	0.00	113.89	101.31	12.58	9.051
1,900.00	1,892.74	1,907.27	1,892.74	6.74	6.61	107.16	140.00	0.00	117.09	103.77	13.32	8.791
2,000.00	1,991.88	1,991.88	1,991.88	7.13	6.91	113.00	140.00	0.00	121.60	107.61	13.99	8.691
2,100.00	2,091.03	2,091.13	2,091.12	7.52	7.27	117.73	141.30	-0.64	127.26	112.55	14.72	8.648
2,200.00	2,190.17	2,190.96	2,190.82	7.91	7.62	120.58	145.70	-2.83	133.42	117.98	15.44	8.640
2,300.00	2,289.32	2,309.27	2,290.34	8.30	8.04	122.29	152.06	-5.98	139.65	123.41	16.24	8.599
2,400.00	2,388.46	2,409.54	2,389.81	8.69	8.40	123.83	158.44	-9.15	145.98	129.00	16.97	8.600
2,500.00	2,487.61	2,509.82	2,489.28	9.08	8.76	125.25	164.83	-12.31	152.40	134.69	17.71	8.606
2,600.00	2,586.75	2,589.91	2,588.75	9.48	9.05	126.54	171.21	-15.48	158.91	140.54	18.37	8.650
2,700.00	2,685.90	2,689.63	2,688.22	9.87	9.41	127.74	177.59	-18.65	165.50	146.40	19.10	8.663
2,800.00	2,785.04	2,789.36	2,787.69	10.27	9.77	128.85	183.98	-21.81	172.16	152.32	19.84	8.678
2,900.00	2,884.19	2,889.09	2,887.16	10.66	10.13	129.87	190.36	-24.98	178.87	158.30	20.57	8.695
3,000.00	2,983.34	2,988.81	2,986.63	11.06	10.49	130.82	196.75	-28.15	185.63	164.33	21.31	8.713
3,100.00	3,082.48	3,088.54	3,086.10	11.45	10.85	131.70	203.13	-31.31	192.44	170.40	22.04	8.731
3,200.00	3,181.63	3,188.26	3,185.57	11.85	11.22	132.52	209.52	-34.48	199.30	176.52	22.78	8.750
3,300.00	3,280.77	3,287.99	3,285.04	12.24	11.58	133.29	215.90	-37.65	206.19	182.68	23.51	8.770
3,400.00	3,380.14	3,387.82	3,384.62	12.63	11.94	133.72	222.29	-40.82	211.80	187.55	24.24	8.736
3,500.00	3,479.84	3,487.75	3,484.30	13.00	12.31	133.42	228.69	-43.99	215.01	190.03	24.98	8.608
3,600.00	3,579.75	3,587.67	3,583.96	13.36	12.67	132.43	235.09	-47.16	215.86	190.15	25.71	8.397
3,700.00	3,679.74	3,687.46	3,683.50	13.70	13.03	131.76	241.48	-50.33	214.58	188.15	26.43	8.119
3,800.00	3,779.74	3,787.21	3,782.99	14.03	13.40	131.00	247.86	-53.50	212.94	185.79	27.15	7.842
3,900.00	3,879.74	3,886.95	3,882.48	14.37	13.76	130.00	254.25	-56.67	211.53	183.65	27.88	7.588
4,000.00	3,979.74	3,986.70	3,981.97	14.71	14.13	129.00	260.63	-59.83	210.35	181.75	28.60	7.355
4,100.00	4,079.74	4,086.44	4,081.46	15.04	14.49	128.00	267.02	-63.00	209.42	180.09	29.33	7.141
4,200.00	4,179.74	4,186.19	4,180.95	15.38	14.86	127.00	273.40	-66.17	208.72	178.67	30.05	6.945
4,300.00	4,279.74	4,285.93	4,280.43	15.72	15.22	126.00	279.79	-69.34	208.26	177.49	30.78	6.767
4,400.00	4,379.74	4,385.67	4,379.92	16.07	15.59	125.00	286.18	-72.50	208.05	176.55	31.50	6.605
4,435.47	4,415.21	4,421.05	4,415.21	16.19	15.72	124.00	288.44	-73.63	208.04	176.28	31.76	6.551
4,500.00	4,479.74	4,485.42	4,479.41	16.41	15.95	123.00	292.56	-75.67	208.09	175.86	32.23	6.457
4,600.00	4,579.74	4,585.16	4,578.90	16.75	16.32	122.00	298.95	-78.84	208.37	175.42	32.95	6.324
4,700.00	4,679.74	4,684.91	4,678.39	17.09	16.68	121.00	305.33	-82.01	208.90	175.22	33.68	6.203
4,800.00	4,779.74	4,784.65	4,777.88	17.44	17.05	120.00	311.72	-85.17	209.66	175.26	34.40	6.095
4,900.00	4,879.74	4,884.40	4,877.37	17.78	17.42	119.00	318.10	-88.34	210.67	175.55	35.12	5.998

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 #205H
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:	#205H	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													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	4,979.74	4,984.14	4,976.86	18.13	17.78	52.67	324.49	-91.51	211.91	176.07	35.84	5.912	
5,100.00	5,079.74	5,083.88	5,076.35	18.47	18.15	50.79	330.88	-94.67	213.39	176.83	36.57	5.836	
5,200.00	5,179.74	5,183.63	5,175.84	18.82	18.52	48.94	337.26	-97.84	215.09	177.81	37.29	5.769	
5,300.00	5,279.74	5,283.37	5,275.33	19.17	18.88	47.12	343.65	-101.01	217.02	179.01	38.00	5.710	
5,400.00	5,379.74	5,383.12	5,374.82	19.51	19.25	45.33	350.03	-104.18	219.16	180.44	38.72	5.660	
5,500.00	5,479.74	5,482.86	5,474.31	19.86	19.62	43.58	356.42	-107.34	221.51	182.07	39.44	5.616	
5,600.00	5,579.74	5,582.61	5,573.80	20.21	19.98	41.87	362.80	-110.51	224.07	183.91	40.16	5.580	
5,700.00	5,679.74	5,682.35	5,673.28	20.56	20.35	40.19	369.19	-113.68	226.82	185.94	40.87	5.549	
5,800.00	5,779.74	5,782.09	5,772.77	20.91	20.72	38.56	375.58	-116.85	229.76	188.17	41.59	5.524	
5,900.00	5,879.74	5,881.84	5,872.26	21.25	21.08	36.97	381.96	-120.01	232.88	190.58	42.30	5.505	
6,000.00	5,979.74	5,984.68	5,974.91	21.60	21.46	35.62	387.55	-122.79	235.68	192.64	43.03	5.477	
6,100.00	6,079.74	6,088.72	6,078.91	21.95	21.83	35.05	389.93	-123.97	236.89	193.13	43.75	5.414	
6,200.00	6,179.74	6,189.55	6,179.74	22.30	22.19	35.03	390.00	-124.00	236.92	192.46	44.46	5.329	
6,300.00	6,279.74	6,289.55	6,279.74	22.65	22.54	35.03	390.00	-124.00	236.92	191.76	45.16	5.246	
6,400.00	6,379.74	6,389.55	6,379.74	23.00	22.89	35.03	390.00	-124.00	236.92	191.06	45.87	5.165	
6,500.00	6,479.74	6,489.55	6,479.74	23.35	23.24	35.03	390.00	-124.00	236.92	190.35	46.57	5.087	
6,600.00	6,579.74	6,589.55	6,579.74	23.70	23.60	35.03	390.00	-124.00	236.92	189.65	47.28	5.012	
6,700.00	6,679.74	6,689.55	6,679.74	24.05	23.95	35.03	390.00	-124.00	236.92	188.94	47.98	4.938	
6,800.00	6,779.74	6,789.55	6,779.74	24.41	24.30	35.03	390.00	-124.00	236.92	188.24	48.69	4.866	
6,900.00	6,879.74	6,889.55	6,879.74	24.76	24.66	35.03	390.00	-124.00	236.92	187.53	49.39	4.797	
7,000.00	6,979.74	6,989.55	6,979.74	25.11	25.01	35.03	390.00	-124.00	236.92	186.83	50.10	4.729	
7,100.00	7,079.74	7,089.55	7,079.74	25.46	25.36	35.03	390.00	-124.00	236.92	186.12	50.80	4.664	
7,200.00	7,179.74	7,189.55	7,179.74	25.81	25.72	35.03	390.00	-124.00	236.92	185.41	51.51	4.600	
7,206.53	7,186.27	7,203.92	7,186.27	25.84	25.77	35.03	390.00	-124.00	236.92	185.34	51.58	4.593	
7,300.00	7,279.74	7,281.22	7,271.39	26.17	26.04	35.16	390.11	-123.26	237.58	185.41	52.17	4.554 SF	
7,400.00	7,379.74	7,357.97	7,347.56	26.52	26.29	36.71	391.38	-114.30	245.84	193.36	52.48	4.684	
7,500.00	7,479.74	7,431.08	7,418.36	26.87	26.52	39.56	393.92	-96.47	263.97	211.68	52.29	5.048	
7,600.00	7,579.74	7,500.00	7,482.51	27.22	26.72	43.08	397.45	-71.62	292.44	240.85	51.60	5.668	
7,700.00	7,679.74	7,559.62	7,535.22	27.58	26.89	46.43	401.37	-44.11	331.17	280.90	50.26	6.588	
7,800.00	7,779.74	7,613.75	7,580.35	27.93	27.02	49.51	405.58	-14.56	379.37	330.71	48.66	7.796	
7,900.00	7,879.74	7,661.33	7,617.54	28.28	27.15	52.12	409.75	14.80	435.84	388.92	46.92	9.290	
8,000.00	7,979.74	7,700.00	7,645.87	28.63	27.28	54.14	413.46	40.85	499.27	454.22	45.04	11.084	
8,100.00	8,079.74	7,739.24	7,672.74	28.99	27.43	56.06	417.49	69.15	568.37	524.78	43.59	13.039	
8,200.00	8,179.74	7,770.97	7,692.99	29.34	27.55	57.52	420.93	93.33	642.15	600.01	42.14	15.238	
8,300.00	8,279.74	7,800.00	7,710.32	29.70	27.67	58.77	424.21	116.39	719.72	678.80	40.91	17.591	
8,400.00	8,379.74	7,823.23	7,723.31	30.05	27.78	59.72	426.93	135.45	800.38	760.62	39.76	20.132	
8,500.00	8,479.74	7,850.00	7,737.31	30.40	27.90	60.75	430.14	158.04	883.62	844.62	39.00	22.657	
8,600.00	8,579.74	7,864.00	7,744.20	30.76	27.97	61.26	431.86	170.11	968.89	930.86	38.03	25.477	
8,700.00	8,679.74	7,881.09	7,752.21	31.11	28.06	61.87	433.98	185.05	1,055.95	1,018.59	37.37	28.260	
8,800.00	8,779.27	7,900.00	7,760.53	31.44	28.16	-34.99	436.38	201.86	1,141.44	1,104.65	36.78	31.032	
8,900.00	8,875.84	7,918.59	7,768.17	31.73	28.26	-28.14	438.76	218.64	1,220.76	1,184.63	36.13	33.791	
9,000.00	8,966.53	7,950.00	7,779.81	32.01	28.44	-23.87	442.87	247.51	1,292.54	1,256.80	35.74	36.162	
9,100.00	9,048.57	7,950.00	7,779.81	32.28	28.44	-20.79	442.87	247.51	1,355.50	1,320.73	34.77	38.987	
9,200.00	9,119.47	8,000.00	7,794.99	32.57	28.75	-19.26	449.58	294.66	1,408.52	1,373.68	34.84	40.434	
9,300.00	9,177.08	8,000.00	7,794.99	32.91	28.75	-17.76	449.58	294.66	1,451.16	1,416.94	34.22	42.405	
9,400.00	9,219.65	8,050.00	7,805.97	33.33	29.09	-17.47	456.46	342.94	1,482.76	1,448.20	34.56	42.901	
9,500.00	9,245.89	8,050.00	7,805.97	33.84	29.09	-16.85	456.46	342.94	1,503.12	1,468.58	34.54	43.516	
9,600.00	9,254.99	8,100.00	7,812.65	34.44	29.46	-17.40	463.43	391.98	1,511.82	1,476.47	35.35	42.764	
9,700.00	9,255.00	8,100.00	7,812.65	35.15	29.46	-17.53	463.43	391.98	1,516.37	1,480.40	35.97	42.159	
9,800.00	9,255.00	8,151.85	7,815.00	36.00	29.87	-18.46	470.73	443.24	1,524.03	1,486.97	37.06	41.124	
9,900.00	9,255.00	8,232.79	7,815.00	36.97	30.59	-19.55	480.43	523.59	1,533.69	1,495.39	38.31	40.036	
10,000.00	9,255.00	8,369.48	7,815.00	38.06	31.99	-20.63	489.07	659.98	1,540.24	1,500.48	39.76	38.735	

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 #205H
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:	#205H	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
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	9,255.00	8,484.30	7,815.00	39.24	33.33	-21.03	489.77	774.80	1,543.02	1,501.99	41.03	37.609	
10,200.00	9,255.00	8,584.27	7,815.00	40.50	34.63	-21.13	489.75	874.76	1,543.76	1,501.56	42.20	36.583	
10,300.00	9,255.00	8,684.27	7,815.00	41.85	36.03	-21.13	489.73	974.76	1,543.77	1,500.36	43.41	35.563	
10,400.00	9,255.00	8,784.27	7,815.00	43.28	37.51	-21.13	489.71	1,074.76	1,543.78	1,499.08	44.70	34.538	
10,500.00	9,255.00	8,884.27	7,815.00	44.78	39.08	-21.13	489.70	1,174.76	1,543.79	1,497.73	46.06	33.518	
10,600.00	9,255.00	8,984.27	7,815.00	46.35	40.72	-21.13	489.68	1,274.76	1,543.80	1,496.31	47.48	32.512	
10,700.00	9,255.00	9,084.27	7,815.00	47.98	42.42	-21.13	489.66	1,374.76	1,543.81	1,494.84	48.97	31.526	
10,800.00	9,255.00	9,184.27	7,815.00	49.66	44.17	-21.13	489.64	1,474.76	1,543.82	1,493.31	50.51	30.565	
10,900.00	9,255.00	9,284.27	7,815.00	51.40	45.97	-21.13	489.62	1,574.76	1,543.83	1,491.73	52.10	29.632	
11,000.00	9,255.00	9,384.27	7,815.00	53.17	47.82	-21.13	489.60	1,674.76	1,543.84	1,490.10	53.73	28.731	
11,100.00	9,255.00	9,484.27	7,815.00	54.99	49.70	-21.13	489.58	1,774.76	1,543.85	1,488.44	55.41	27.862	
11,200.00	9,255.00	9,584.27	7,815.00	56.84	51.62	-21.14	489.56	1,874.76	1,543.86	1,486.73	57.12	27.027	
11,300.00	9,255.00	9,684.27	7,815.00	58.72	53.57	-21.14	489.54	1,974.76	1,543.87	1,485.00	58.87	26.225	
11,400.00	9,255.00	9,784.27	7,815.00	60.64	55.55	-21.14	489.52	2,074.76	1,543.88	1,483.23	60.65	25.456	
11,500.00	9,255.00	9,884.27	7,815.00	62.58	57.55	-21.14	489.51	2,174.76	1,543.89	1,481.43	62.46	24.719	
11,600.00	9,255.00	9,984.27	7,815.00	64.54	59.58	-21.14	489.49	2,274.76	1,543.90	1,479.61	64.29	24.014	
11,700.00	9,255.00	10,084.27	7,815.00	66.53	61.62	-21.14	489.47	2,374.76	1,543.91	1,477.76	66.15	23.340	
11,800.00	9,255.00	10,184.27	7,815.00	68.54	63.69	-21.14	489.45	2,474.76	1,543.92	1,475.89	68.03	22.695	
11,900.00	9,255.00	10,284.27	7,815.00	70.56	65.77	-21.14	489.43	2,574.76	1,543.93	1,474.00	69.93	22.079	
12,000.00	9,255.00	10,384.27	7,815.00	72.60	67.86	-21.14	489.41	2,674.76	1,543.94	1,472.09	71.85	21.489	
12,100.00	9,255.00	10,484.27	7,815.00	74.66	69.97	-21.14	489.39	2,774.76	1,543.95	1,470.17	73.78	20.926	
12,200.00	9,255.00	10,584.27	7,815.00	76.74	72.09	-21.15	489.37	2,874.76	1,543.96	1,468.23	75.73	20.387	
12,300.00	9,255.00	10,684.27	7,815.00	78.82	74.22	-21.15	489.35	2,974.76	1,543.97	1,466.27	77.70	19.871	
12,400.00	9,255.00	10,784.27	7,815.00	80.92	76.36	-21.15	489.33	3,074.76	1,543.98	1,464.30	79.68	19.377	
12,500.00	9,255.00	10,884.27	7,815.00	83.03	78.51	-21.15	489.31	3,174.76	1,543.99	1,462.32	81.67	18.904	
12,600.00	9,255.00	10,984.27	7,815.00	85.15	80.67	-21.15	489.30	3,274.76	1,544.00	1,460.32	83.68	18.452	
12,700.00	9,255.00	11,084.27	7,815.00	87.28	82.84	-21.15	489.28	3,374.76	1,544.01	1,458.32	85.69	18.018	
12,800.00	9,255.00	11,184.27	7,815.00	89.41	85.01	-21.15	489.26	3,474.76	1,544.02	1,456.30	87.72	17.602	
12,900.00	9,255.00	11,284.27	7,815.00	91.56	87.19	-21.15	489.24	3,574.76	1,544.03	1,454.28	89.76	17.203	
13,000.00	9,255.00	11,384.27	7,815.00	93.71	89.38	-21.15	489.22	3,674.76	1,544.04	1,452.24	91.80	16.820	
13,100.00	9,255.00	11,484.27	7,815.00	95.88	91.58	-21.15	489.20	3,774.76	1,544.05	1,450.20	93.85	16.452	
13,200.00	9,255.00	11,584.27	7,815.00	98.04	93.78	-21.16	489.18	3,874.76	1,544.06	1,448.15	95.91	16.098	
13,300.00	9,255.00	11,684.27	7,815.00	100.22	95.98	-21.16	489.16	3,974.76	1,544.07	1,446.09	97.98	15.759	
13,400.00	9,255.00	11,784.27	7,815.00	102.40	98.19	-21.16	489.14	4,074.76	1,544.08	1,444.03	100.06	15.432	
13,500.00	9,255.00	11,884.27	7,815.00	104.58	100.40	-21.16	489.12	4,174.76	1,544.09	1,441.95	102.14	15.118	
13,600.00	9,255.00	11,984.27	7,815.00	106.77	102.62	-21.16	489.11	4,274.76	1,544.10	1,439.88	104.23	14.815	
13,700.00	9,255.00	12,084.27	7,815.00	108.97	104.84	-21.16	489.09	4,374.76	1,544.11	1,437.79	106.32	14.523	
13,800.00	9,255.00	12,184.27	7,815.00	111.17	107.07	-21.16	489.07	4,474.76	1,544.12	1,435.71	108.42	14.242	
13,900.00	9,255.00	12,284.27	7,815.00	113.38	109.30	-21.16	489.05	4,574.76	1,544.13	1,433.61	110.52	13.971	
14,000.00	9,255.00	12,384.27	7,815.00	115.58	111.53	-21.16	489.03	4,674.76	1,544.14	1,431.51	112.63	13.710	
14,100.00	9,255.00	12,484.27	7,815.00	117.80	113.77	-21.16	489.01	4,774.76	1,544.15	1,429.41	114.74	13.458	
14,200.00	9,255.00	12,584.27	7,815.00	120.01	116.01	-21.17	488.99	4,874.76	1,544.16	1,427.30	116.86	13.214	
14,300.00	9,255.00	12,684.27	7,815.00	122.23	118.25	-21.17	488.97	4,974.76	1,544.17	1,425.19	118.98	12.978	
14,400.00	9,255.00	12,784.27	7,815.00	124.46	120.49	-21.17	488.95	5,074.76	1,544.18	1,423.08	121.11	12.751	
14,500.00	9,255.00	12,884.27	7,815.00	126.68	122.74	-21.17	488.93	5,174.76	1,544.19	1,420.96	123.24	12.530	
14,600.00	9,255.00	12,984.27	7,815.00	128.91	124.99	-21.17	488.92	5,274.76	1,544.20	1,418.83	125.37	12.317	
14,700.00	9,255.00	13,084.27	7,815.00	131.14	127.24	-21.17	488.90	5,374.76	1,544.21	1,416.71	127.51	12.111	
14,800.00	9,255.00	13,184.27	7,815.00	133.38	129.49	-21.17	488.88	5,474.76	1,544.22	1,414.58	129.64	11.911	
14,900.00	9,255.00	13,284.27	7,815.00	135.61	131.74	-21.17	488.86	5,574.76	1,544.23	1,412.45	131.79	11.718	
15,000.00	9,255.00	13,384.27	7,815.00	137.85	134.00	-21.17	488.84	5,674.76	1,544.24	1,410.31	133.93	11.530	
15,100.00	9,255.00	13,484.27	7,815.00	140.09	136.26	-21.17	488.82	5,774.76	1,544.26	1,408.17	136.08	11.348	
15,200.00	9,255.00	13,584.27	7,815.00	142.34	138.52	-21.17	488.80	5,874.76	1,544.27	1,406.03	138.23	11.172	

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 #205H
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:	#205H	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
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	
15,300.00	9,255.00	13,684.27	7,815.00	144.58	140.78	-21.18	488.78	5,974.76	1,544.28	1,403.89	140.38	11.000	
15,400.00	9,255.00	13,784.27	7,815.00	146.83	143.04	-21.18	488.76	6,074.76	1,544.29	1,401.75	142.54	10.834	
15,500.00	9,255.00	13,884.27	7,815.00	149.08	145.31	-21.18	488.74	6,174.76	1,544.30	1,399.60	144.70	10.673	
15,600.00	9,255.00	13,984.27	7,815.00	151.33	147.57	-21.18	488.72	6,274.76	1,544.31	1,397.45	146.86	10.516	
15,700.00	9,255.00	14,084.27	7,815.00	153.58	149.84	-21.18	488.71	6,374.76	1,544.32	1,395.30	149.02	10.363	
15,800.00	9,255.00	14,184.27	7,815.00	155.84	152.11	-21.18	488.69	6,474.76	1,544.33	1,393.14	151.18	10.215	
15,900.00	9,255.00	14,284.27	7,815.00	158.09	154.38	-21.18	488.67	6,574.76	1,544.34	1,390.99	153.35	10.071	
16,000.00	9,255.00	14,384.27	7,815.00	160.35	156.65	-21.18	488.65	6,674.76	1,544.35	1,388.83	155.52	9.930	
16,100.00	9,255.00	14,484.27	7,815.00	162.61	158.92	-21.18	488.63	6,774.76	1,544.36	1,386.67	157.69	9.794	
16,200.00	9,255.00	14,584.27	7,815.00	164.87	161.19	-21.18	488.61	6,874.76	1,544.37	1,384.51	159.86	9.661	
16,300.00	9,255.00	14,684.27	7,815.00	167.13	163.47	-21.19	488.59	6,974.76	1,544.38	1,382.34	162.03	9.531	
16,400.00	9,255.00	14,784.27	7,815.00	169.40	165.74	-21.19	488.57	7,074.76	1,544.39	1,380.18	164.21	9.405	
16,500.00	9,255.00	14,884.27	7,815.00	171.66	168.02	-21.19	488.55	7,174.76	1,544.40	1,378.01	166.38	9.282	
16,600.00	9,255.00	14,984.27	7,815.00	173.93	170.29	-21.19	488.53	7,274.76	1,544.41	1,375.85	168.56	9.162	
16,700.00	9,255.00	15,084.27	7,815.00	176.19	172.57	-21.19	488.52	7,374.76	1,544.42	1,373.68	170.74	9.045	
16,800.00	9,255.00	15,184.27	7,815.00	178.46	174.85	-21.19	488.50	7,474.76	1,544.43	1,371.51	172.92	8.931	
16,900.00	9,255.00	15,284.27	7,815.00	180.73	177.13	-21.19	488.48	7,574.76	1,544.44	1,369.33	175.11	8.820	
17,000.00	9,255.00	15,384.27	7,815.00	183.00	179.41	-21.19	488.46	7,674.76	1,544.45	1,367.16	177.29	8.711	
17,100.00	9,255.00	15,484.27	7,815.00	185.27	181.69	-21.19	488.44	7,774.76	1,544.46	1,364.99	179.47	8.605	
17,200.00	9,255.00	15,584.27	7,815.00	187.54	183.97	-21.19	488.42	7,874.76	1,544.47	1,362.81	181.66	8.502	
17,300.00	9,255.00	15,684.27	7,815.00	189.81	186.25	-21.20	488.40	7,974.76	1,544.48	1,360.63	183.85	8.401	
17,400.00	9,255.00	15,784.27	7,815.00	192.09	188.53	-21.20	488.38	8,074.76	1,544.49	1,358.45	186.03	8.302	
17,500.00	9,255.00	15,884.27	7,815.00	194.36	190.82	-21.20	488.36	8,174.76	1,544.50	1,356.28	188.22	8.206	
17,600.00	9,255.00	15,984.27	7,815.00	196.64	193.10	-21.20	488.34	8,274.76	1,544.51	1,354.10	190.41	8.111	
17,700.00	9,255.00	16,084.27	7,815.00	198.91	195.39	-21.20	488.32	8,374.76	1,544.52	1,351.91	192.61	8.019	
17,800.00	9,255.00	16,184.27	7,815.00	201.19	197.67	-21.20	488.31	8,474.76	1,544.53	1,349.73	194.80	7.929	
17,900.00	9,255.00	16,284.27	7,815.00	203.47	199.96	-21.20	488.29	8,574.76	1,544.54	1,347.55	196.99	7.841	
18,000.00	9,255.00	16,384.27	7,815.00	205.74	202.24	-21.20	488.27	8,674.76	1,544.55	1,345.36	199.19	7.754	
18,100.00	9,255.00	16,484.27	7,815.00	208.02	204.53	-21.20	488.25	8,774.76	1,544.56	1,343.18	201.38	7.670	
18,200.00	9,255.00	16,584.27	7,815.00	210.30	206.82	-21.20	488.23	8,874.76	1,544.57	1,340.99	203.58	7.587	
18,300.00	9,255.00	16,684.27	7,815.00	212.58	209.10	-21.21	488.21	8,974.76	1,544.58	1,338.81	205.77	7.506	
18,400.00	9,255.00	16,784.27	7,815.00	214.86	211.39	-21.21	488.19	9,074.76	1,544.59	1,336.62	207.97	7.427	
18,500.00	9,255.00	16,884.27	7,815.00	217.14	213.68	-21.21	488.17	9,174.76	1,544.60	1,334.43	210.17	7.349	
18,600.00	9,255.00	16,984.27	7,815.00	219.43	215.97	-21.21	488.15	9,274.76	1,544.61	1,332.24	212.37	7.273	
18,700.00	9,255.00	17,084.27	7,815.00	221.71	218.26	-21.21	488.13	9,374.76	1,544.62	1,330.05	214.57	7.199	
18,800.00	9,255.00	17,184.27	7,815.00	223.99	220.55	-21.21	488.12	9,474.76	1,544.63	1,327.86	216.77	7.126	
18,900.00	9,255.00	17,284.27	7,815.00	226.28	222.84	-21.21	488.10	9,574.76	1,544.64	1,325.67	218.97	7.054	
19,000.00	9,255.00	17,384.27	7,815.00	228.56	225.13	-21.21	488.08	9,674.76	1,544.65	1,323.48	221.18	6.984	
19,100.00	9,255.00	17,484.27	7,815.00	230.84	227.42	-21.21	488.06	9,774.76	1,544.66	1,321.28	223.38	6.915	
19,200.00	9,255.00	17,584.27	7,815.00	233.13	229.71	-21.21	488.04	9,874.76	1,544.67	1,319.09	225.58	6.847	
19,300.00	9,255.00	17,684.27	7,815.00	235.41	232.00	-21.21	488.02	9,974.76	1,544.68	1,316.90	227.79	6.781	
19,400.00	9,255.00	17,784.27	7,815.00	236.87	234.29	-21.22	488.00	10,074.76	1,544.69	1,315.17	229.53	6.730	
19,407.34	9,255.00	17,791.61	7,815.00	236.98	234.46	-21.22	488.00	10,082.11	1,544.69	1,315.04	229.66	6.726	

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 #205H
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:	#205H	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 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	1.00	1.00	0.00	0.00	12.09	140.00	30.00	143.18				
100.00	100.00	101.00	101.00	0.13	0.13	12.09	140.00	30.00	143.18	142.92	0.26	550.914	
200.00	200.00	201.00	201.00	0.49	0.49	12.09	140.00	30.00	143.18	142.20	0.98	146.574	
300.00	300.00	301.00	301.00	0.85	0.85	12.09	140.00	30.00	143.18	141.48	1.69	84.532	
400.00	400.00	401.00	401.00	1.20	1.21	12.09	140.00	30.00	143.18	140.77	2.41	59.392	
500.00	500.00	501.00	501.00	1.56	1.57	12.09	140.00	30.00	143.18	140.05	3.13	45.778	
600.00	600.00	601.00	601.00	1.92	1.92	12.09	140.00	30.00	143.18	139.33	3.84	37.241	
700.00	700.00	701.00	701.00	2.28	2.28	12.09	140.00	30.00	143.18	138.62	4.56	31.388	
800.00	800.00	801.00	801.00	2.64	2.64	12.09	140.00	30.00	143.18	137.90	5.28	27.125	
900.00	899.98	900.98	900.98	2.99	3.00	65.73	140.00	30.00	142.45	136.46	5.99	23.772	
1,000.00	999.84	1,000.84	1,000.84	3.35	3.36	67.72	140.00	30.00	140.38	133.68	6.70	20.937	
1,100.00	1,099.45	1,100.45	1,100.45	3.71	3.71	71.13	140.00	30.00	137.31	129.89	7.42	18.503	
1,200.00	1,198.72	1,200.28	1,199.72	4.07	4.07	76.04	140.00	30.00	133.87	125.73	8.14	16.439	
1,300.00	1,297.86	1,301.14	1,298.86	4.44	4.43	81.53	140.00	30.00	131.31	122.43	8.88	14.794	
1,400.00	1,397.01	1,401.99	1,398.01	4.82	4.80	87.18	140.00	30.00	130.01	120.40	9.61	13.525	
1,449.52	1,446.10	1,447.10	1,447.10	5.01	4.96	90.00	140.00	30.00	129.85	119.89	9.96	13.035 CC	
1,500.00	1,496.15	1,502.85	1,497.15	5.20	5.16	92.88	140.00	30.00	130.02	119.67	10.35	12.560 ES	
1,600.00	1,595.30	1,603.70	1,596.30	5.58	5.52	98.52	140.00	30.00	131.33	120.24	11.09	11.841	
1,700.00	1,694.44	1,704.56	1,695.44	5.96	5.88	104.01	140.00	30.00	133.90	122.07	11.83	11.319	
1,800.00	1,793.59	1,805.41	1,794.59	6.35	6.24	109.24	140.00	30.00	137.67	125.10	12.57	10.956	
1,900.00	1,892.74	1,906.27	1,893.74	6.74	6.60	114.16	140.00	30.00	142.53	129.23	13.30	10.717	
2,000.00	1,991.88	2,007.12	1,992.88	7.13	6.96	118.74	140.00	30.00	148.39	134.36	14.03	10.577	
2,100.00	2,091.03	2,107.97	2,092.03	7.52	7.33	122.94	140.00	30.00	155.12	140.36	14.76	10.511	
2,200.00	2,190.17	2,208.83	2,191.17	7.91	7.69	126.78	140.00	30.00	162.62	147.14	15.48	10.502	
2,300.00	2,289.32	2,309.68	2,290.32	8.30	8.05	130.27	140.00	30.00	170.79	154.58	16.21	10.537	
2,400.00	2,388.46	2,389.46	2,389.46	8.69	8.34	133.43	140.00	30.00	179.54	162.68	16.86	10.651	
2,500.00	2,487.61	2,488.61	2,488.61	9.08	8.69	136.30	140.00	30.00	188.78	171.21	17.57	10.743	
2,600.00	2,586.75	2,588.27	2,588.26	9.48	9.03	139.29	138.64	29.97	198.34	180.07	18.27	10.854	
2,700.00	2,685.90	2,687.29	2,687.16	9.87	9.35	142.93	133.88	29.86	208.29	189.34	18.95	10.994	
2,800.00	2,785.04	2,785.35	2,784.87	10.27	9.67	147.08	125.80	29.69	219.15	199.55	19.61	11.177	
2,900.00	2,884.19	2,882.22	2,881.08	10.66	9.99	151.58	114.55	29.44	231.49	211.23	20.26	11.427	
3,000.00	2,983.34	2,977.71	2,975.50	11.06	10.31	156.31	100.27	29.12	245.85	224.95	20.90	11.764	
3,100.00	3,082.48	3,072.84	3,069.10	11.45	10.63	161.08	83.27	28.74	262.59	241.06	21.53	12.195	
3,200.00	3,181.63	3,168.91	3,163.53	11.85	10.96	165.41	65.66	28.35	281.18	258.99	22.18	12.674	
3,300.00	3,280.77	3,264.97	3,257.97	12.24	11.30	169.21	48.04	27.96	301.18	278.33	22.85	13.183	
3,400.00	3,380.14	3,361.46	3,352.82	12.63	11.65	172.56	30.35	27.57	320.48	296.97	23.52	13.628	
3,500.00	3,479.84	3,458.65	3,448.36	13.00	12.00	175.46	12.53	27.17	337.31	313.11	24.19	13.942	
3,600.00	3,579.75	3,556.41	3,544.46	13.36	12.36	178.06	-5.40	26.78	351.45	326.57	24.88	14.128	
3,700.00	3,679.74	3,654.62	3,641.00	13.70	12.73	127.46	-23.40	26.38	362.95	337.39	25.56	14.201	
3,800.00	3,779.74	3,752.92	3,737.64	14.03	13.10	129.70	-41.43	25.98	374.18	347.94	26.25	14.257	
3,900.00	3,879.74	3,851.22	3,834.28	14.37	13.48	131.81	-59.45	25.58	385.97	359.03	26.94	14.328	
4,000.00	3,979.74	3,949.53	3,930.91	14.71	13.86	133.80	-77.48	25.18	398.25	370.61	27.63	14.412	
4,100.00	4,079.74	4,047.83	4,027.55	15.04	14.24	135.67	-95.50	24.78	410.98	382.65	28.33	14.507	
4,200.00	4,179.74	4,146.13	4,124.18	15.38	14.62	137.42	-113.53	24.38	424.12	395.09	29.03	14.610	
4,300.00	4,279.74	4,244.44	4,220.82	15.72	15.01	139.08	-131.55	23.98	437.64	407.91	29.73	14.720	
4,400.00	4,379.74	4,342.74	4,317.46	16.07	15.40	140.63	-149.58	23.58	451.49	421.06	30.43	14.836	
4,500.00	4,479.74	4,441.05	4,414.09	16.41	15.79	142.09	-167.60	23.18	465.66	434.53	31.14	14.955	
4,600.00	4,579.74	4,539.35	4,510.73	16.75	16.19	143.46	-185.63	22.78	480.11	448.27	31.84	15.078	
4,700.00	4,679.74	4,637.65	4,607.37	17.09	16.59	144.76	-203.65	22.38	494.82	462.27	32.55	15.203	
4,800.00	4,779.74	4,735.96	4,704.00	17.44	16.98	145.98	-221.68	21.98	509.76	476.51	33.25	15.329	
4,900.00	4,879.74	4,834.26	4,800.64	17.78	17.38	147.13	-239.70	21.58	524.92	490.96	33.96	15.456	
5,000.00	4,979.74	4,932.56	4,897.27	18.13	17.79	148.21	-257.73	21.18	540.28	505.61	34.67	15.583	

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 #205H
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:	#205H	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: O-MWD-HDGM														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi-Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	5,079.74	5,030.87	4,993.91	18.47	18.19	149.24		-275.75	20.79	555.81	520.43	35.38	15.710		
5,200.00	5,179.74	5,129.17	5,090.55	18.82	18.59	150.21		-293.78	20.39	571.52	535.43	36.09	15.836		
5,300.00	5,279.74	5,227.48	5,187.18	19.17	19.00	151.13		-311.80	19.99	587.37	550.57	36.80	15.961		
5,400.00	5,379.74	5,325.78	5,283.82	19.51	19.41	152.00		-329.83	19.59	603.37	565.86	37.51	16.085		
5,500.00	5,479.74	5,424.08	5,380.46	19.86	19.82	152.83		-347.85	19.19	619.50	581.28	38.22	16.208		
5,600.00	5,579.74	5,522.39	5,477.09	20.21	20.23	153.61		-365.88	18.79	635.74	596.81	38.93	16.329		
5,700.00	5,679.74	5,620.69	5,573.73	20.56	20.64	154.36		-383.90	18.39	652.10	612.46	39.65	16.448		
5,800.00	5,779.74	5,718.99	5,670.36	20.91	21.05	155.07		-401.93	17.99	668.56	628.21	40.36	16.566		
5,900.00	5,879.74	5,817.30	5,767.00	21.25	21.46	155.74		-419.95	17.59	685.12	644.05	41.07	16.681		
6,000.00	5,979.74	5,915.60	5,863.64	21.60	21.88	156.38		-437.98	17.19	701.76	659.98	41.78	16.795		
6,100.00	6,079.74	6,013.91	5,960.27	21.95	22.29	157.00		-456.00	16.79	718.49	675.99	42.50	16.907		
6,200.00	6,179.74	6,112.21	6,056.91	22.30	22.70	157.58		-474.03	16.39	735.30	692.08	43.21	17.016		
6,300.00	6,279.74	6,210.51	6,153.55	22.65	23.12	158.14		-492.05	15.99	752.17	708.25	43.93	17.123		
6,400.00	6,379.74	6,308.82	6,250.18	23.00	23.54	158.68		-510.08	15.59	769.12	724.47	44.64	17.229		
6,500.00	6,479.74	6,407.12	6,346.82	23.35	23.95	159.19		-528.10	15.19	786.12	740.77	45.36	17.332		
6,600.00	6,579.74	6,505.42	6,443.46	23.70	24.37	159.68		-546.13	14.79	803.19	757.11	46.07	17.433		
6,700.00	6,679.74	6,603.73	6,540.09	24.05	24.79	160.15		-564.15	14.39	820.31	773.52	46.79	17.532		
6,800.00	6,779.74	6,709.77	6,644.36	24.41	25.24	160.63		-583.46	13.97	837.38	789.80	47.58	17.598		
6,900.00	6,879.74	6,846.47	6,779.49	24.76	25.80	161.12		-603.98	13.51	851.48	802.85	48.63	17.509		
7,000.00	6,979.74	6,984.85	6,917.13	25.11	26.33	161.45		-618.16	13.20	861.13	811.53	49.60	17.360		
7,100.00	7,079.74	7,124.29	7,056.35	25.46	26.82	161.62		-625.72	13.03	866.23	815.75	50.48	17.159		
7,200.00	7,179.74	7,248.69	7,180.74	25.81	27.23	161.65		-627.00	13.00	867.10	815.86	51.24	16.923		
7,205.63	7,185.37	7,254.32	7,186.37	25.83	27.24	161.65		-627.00	13.00	867.10	815.82	51.28	16.911		
7,300.00	7,279.74	7,331.28	7,263.33	26.17	27.48	161.63		-627.10	13.38	867.49	815.60	51.88	16.721		
7,400.00	7,379.74	7,385.90	7,317.73	26.52	27.66	161.37		-628.24	17.87	872.10	819.71	52.38	16.648		
7,500.00	7,479.74	7,439.16	7,370.12	26.87	27.84	160.85		-630.58	27.05	881.97	829.21	52.76	16.717		
7,600.00	7,579.74	7,490.25	7,419.35	27.22	28.01	160.11		-633.95	40.25	897.22	844.23	52.99	16.931		
7,700.00	7,679.74	7,538.55	7,464.59	27.58	28.18	159.22		-638.11	56.59	917.99	864.91	53.07	17.296		
7,800.00	7,779.74	7,583.65	7,505.41	27.93	28.33	158.22		-642.84	75.13	944.34	891.35	52.98	17.823		
7,900.00	7,879.74	7,625.35	7,541.72	28.28	28.46	157.19		-647.90	95.00	976.28	923.55	52.73	18.515		
8,000.00	7,979.74	7,663.64	7,573.66	28.63	28.59	156.15		-653.11	115.45	1,013.74	961.42	52.32	19.375		
8,100.00	8,079.74	7,700.00	7,602.62	28.99	28.71	155.10		-658.54	136.74	1,056.52	1,004.71	51.81	20.393		
8,200.00	8,179.74	7,730.47	7,625.78	29.34	28.80	154.18		-663.43	155.92	1,104.35	1,053.21	51.14	21.594		
8,300.00	8,279.74	7,750.00	7,640.06	29.70	28.87	153.57		-666.72	168.83	1,157.01	1,106.76	50.24	23.027		
8,400.00	8,379.74	7,785.71	7,664.96	30.05	28.99	152.44		-673.04	193.63	1,213.82	1,164.16	49.66	24.440		
8,500.00	8,479.74	7,800.00	7,674.46	30.40	29.03	151.98		-675.68	203.97	1,274.82	1,226.12	48.70	26.178		
8,600.00	8,579.74	7,831.35	7,694.38	30.76	29.14	150.95		-681.66	227.43	1,339.22	1,291.12	48.11	27.838		
8,700.00	8,679.74	7,850.00	7,705.58	31.11	29.21	150.34		-685.34	241.87	1,406.97	1,359.65	47.33	29.729		
8,800.00	8,779.74	7,871.29	7,717.77	31.44	29.28	149.66		-689.65	258.78	1,473.03	1,426.47	46.56	31.634		
8,900.00	8,875.84	7,900.00	7,733.17	31.73	29.39	148.94		-695.63	282.26	1,531.36	1,485.52	45.85	33.401		
9,000.00	8,966.53	7,917.75	7,742.07	32.01	29.47	148.24		-699.43	297.14	1,580.63	1,535.75	44.88	35.216		
9,100.00	9,048.57	7,950.00	7,757.02	32.28	29.60	147.57		-706.48	324.83	1,620.06	1,575.92	44.15	36.698		
9,200.00	9,119.47	7,969.51	7,765.27	32.57	29.69	146.91		-710.85	341.96	1,648.74	1,605.53	43.22	38.152		
9,300.00	9,177.08	8,000.00	7,776.95	32.91	29.84	146.29		-717.81	369.25	1,666.32	1,623.80	42.53	39.184		
9,400.00	9,219.65	8,023.81	7,785.01	33.33	29.97	145.77		-723.34	390.95	1,672.40	1,630.55	41.85	39.957		
9,500.00	9,245.89	8,050.00	7,792.81	33.84	30.12	145.34		-729.51	415.18	1,666.91	1,625.52	41.39	40.273		
9,600.00	9,254.99	8,078.34	7,799.94	34.44	30.29	144.90		-736.29	441.76	1,649.91	1,608.73	41.18	40.070		
9,700.00	9,255.00	8,100.00	7,804.47	35.15	30.44	144.50		-741.52	462.28	1,630.05	1,588.92	41.13	39.633		
9,800.00	9,255.00	8,133.31	7,809.87	36.00	30.67	144.16		-749.64	494.12	1,616.64	1,575.16	41.47	38.980		
9,900.00	9,255.00	8,150.00	7,811.86	36.97	30.80	143.80		-753.73	510.18	1,610.09	1,568.12	41.96	38.369		
9,948.65	9,255.00	8,175.02	7,813.93	37.50	30.99	143.40		-759.89	534.34	1,609.14	1,566.71	42.43	37.921		
10,000.00	9,255.00	8,200.00	7,814.91	38.06	31.20	143.00		-766.05	558.53	1,610.16	1,567.20	42.96	37.482		

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 #205H
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:	#205H	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 Toolface (°)	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)				
10,100.00	9,255.00	8,252.53	7,815.00	39.24	31.66	26.58	-778.57	609.54	1,616.65	1,572.47	44.18	36.596
10,200.00	9,255.00	8,413.76	7,815.00	40.50	33.30	27.23	-808.23	767.97	1,624.13	1,578.10	46.03	35.281
10,300.00	9,255.00	8,578.25	7,815.00	41.85	35.25	27.74	-824.62	931.59	1,628.74	1,580.83	47.91	33.998
10,400.00	9,255.00	8,721.01	7,815.00	43.28	37.13	27.84	-827.71	1,074.30	1,629.59	1,579.99	49.60	32.855
10,500.00	9,255.00	8,821.01	7,815.00	44.78	38.54	27.84	-827.76	1,174.30	1,629.59	1,578.40	51.18	31.838
10,600.00	9,255.00	8,921.01	7,815.00	46.35	40.05	27.84	-827.81	1,274.30	1,629.59	1,576.74	52.85	30.837
10,700.00	9,255.00	9,021.01	7,815.00	47.98	41.63	27.84	-827.85	1,374.30	1,629.59	1,575.01	54.58	29.859
10,800.00	9,255.00	9,121.01	7,815.00	49.66	43.28	27.84	-827.90	1,474.30	1,629.59	1,573.22	56.37	28.909
10,900.00	9,255.00	9,221.01	7,815.00	51.40	44.99	27.84	-827.95	1,574.30	1,629.59	1,571.37	58.22	27.990
11,000.00	9,255.00	9,321.01	7,815.00	53.17	46.75	27.84	-828.00	1,674.30	1,629.59	1,569.46	60.12	27.104
11,100.00	9,255.00	9,421.01	7,815.00	54.99	48.56	27.84	-828.05	1,774.30	1,629.59	1,567.52	62.07	26.253
11,200.00	9,255.00	9,521.01	7,815.00	56.84	50.41	27.84	-828.09	1,874.30	1,629.59	1,565.52	64.07	25.436
11,300.00	9,255.00	9,621.01	7,815.00	58.72	52.30	27.84	-828.14	1,974.30	1,629.59	1,563.49	66.10	24.655
11,400.00	9,255.00	9,721.01	7,815.00	60.64	54.22	27.84	-828.19	2,074.30	1,629.59	1,561.43	68.16	23.907
11,500.00	9,255.00	9,821.01	7,815.00	62.58	56.17	27.84	-828.24	2,174.30	1,629.59	1,559.33	70.26	23.193
11,600.00	9,255.00	9,921.01	7,815.00	64.54	58.15	27.84	-828.28	2,274.30	1,629.59	1,557.20	72.39	22.511
11,700.00	9,255.00	10,021.01	7,815.00	66.53	60.15	27.84	-828.33	2,374.30	1,629.59	1,555.04	74.54	21.861
11,800.00	9,255.00	10,121.01	7,815.00	68.54	62.17	27.84	-828.38	2,474.30	1,629.59	1,552.86	76.72	21.240
11,900.00	9,255.00	10,221.01	7,815.00	70.56	64.22	27.84	-828.43	2,574.30	1,629.59	1,550.66	78.93	20.647
12,000.00	9,255.00	10,321.01	7,815.00	72.60	66.28	27.84	-828.47	2,674.30	1,629.59	1,548.44	81.15	20.081
12,100.00	9,255.00	10,421.01	7,815.00	74.66	68.35	27.84	-828.52	2,774.30	1,629.59	1,546.20	83.39	19.541
12,200.00	9,255.00	10,521.01	7,815.00	76.74	70.44	27.84	-828.57	2,874.30	1,629.59	1,543.94	85.65	19.026
12,300.00	9,255.00	10,621.01	7,815.00	78.82	72.55	27.84	-828.62	2,974.30	1,629.59	1,541.66	87.93	18.533
12,400.00	9,255.00	10,721.01	7,815.00	80.92	74.66	27.84	-828.66	3,074.30	1,629.59	1,539.37	90.22	18.063
12,500.00	9,255.00	10,821.01	7,815.00	83.03	76.79	27.84	-828.71	3,174.30	1,629.59	1,537.07	92.52	17.613
12,600.00	9,255.00	10,921.01	7,815.00	85.15	78.93	27.84	-828.76	3,274.30	1,629.59	1,534.75	94.84	17.182
12,700.00	9,255.00	11,021.01	7,815.00	87.28	81.08	27.84	-828.81	3,374.30	1,629.59	1,532.42	97.17	16.770
12,800.00	9,255.00	11,121.01	7,815.00	89.41	83.23	27.84	-828.85	3,474.30	1,629.59	1,530.08	99.51	16.376
12,900.00	9,255.00	11,221.01	7,815.00	91.56	85.40	27.84	-828.90	3,574.30	1,629.59	1,527.73	101.86	15.998
13,000.00	9,255.00	11,321.01	7,815.00	93.71	87.57	27.84	-828.95	3,674.30	1,629.59	1,525.37	104.23	15.635
13,100.00	9,255.00	11,421.01	7,815.00	95.88	89.74	27.84	-829.00	3,774.30	1,629.59	1,523.00	106.60	15.288
13,200.00	9,255.00	11,521.01	7,815.00	98.04	91.93	27.84	-829.04	3,874.30	1,629.59	1,520.62	108.97	14.954
13,300.00	9,255.00	11,621.01	7,815.00	100.22	94.12	27.84	-829.09	3,974.30	1,629.59	1,518.23	111.36	14.633
13,400.00	9,255.00	11,721.01	7,815.00	102.40	96.32	27.84	-829.14	4,074.30	1,629.59	1,515.84	113.76	14.325
13,500.00	9,255.00	11,821.01	7,815.00	104.58	98.52	27.84	-829.19	4,174.30	1,629.59	1,513.44	116.16	14.029
13,600.00	9,255.00	11,921.01	7,815.00	106.77	100.72	27.84	-829.24	4,274.30	1,629.59	1,511.03	118.56	13.745
13,700.00	9,255.00	12,021.01	7,815.00	108.97	102.93	27.84	-829.28	4,374.30	1,629.59	1,508.62	120.98	13.470
13,800.00	9,255.00	12,121.01	7,815.00	111.17	105.15	27.84	-829.33	4,474.30	1,629.59	1,506.20	123.40	13.206
13,900.00	9,255.00	12,221.01	7,815.00	113.38	107.37	27.84	-829.38	4,574.30	1,629.59	1,503.77	125.82	12.952
14,000.00	9,255.00	12,321.01	7,815.00	115.58	109.59	27.84	-829.43	4,674.30	1,629.59	1,501.34	128.25	12.706
14,100.00	9,255.00	12,421.01	7,815.00	117.80	111.82	27.84	-829.47	4,774.30	1,629.59	1,498.91	130.69	12.470
14,200.00	9,255.00	12,521.01	7,815.00	120.01	114.05	27.84	-829.52	4,874.30	1,629.59	1,496.47	133.12	12.241
14,300.00	9,255.00	12,621.01	7,815.00	122.23	116.28	27.84	-829.57	4,974.30	1,629.59	1,494.03	135.57	12.020
14,400.00	9,255.00	12,721.01	7,815.00	124.46	118.52	27.84	-829.62	5,074.30	1,629.59	1,491.58	138.02	11.807
14,500.00	9,255.00	12,821.01	7,815.00	126.68	120.75	27.84	-829.66	5,174.30	1,629.59	1,489.13	140.47	11.601
14,600.00	9,255.00	12,921.01	7,815.00	128.91	122.99	27.84	-829.71	5,274.30	1,629.59	1,486.67	142.92	11.402
14,700.00	9,255.00	13,021.01	7,815.00	131.14	125.24	27.84	-829.76	5,374.30	1,629.59	1,484.21	145.38	11.209
14,800.00	9,255.00	13,121.01	7,815.00	133.38	127.48	27.84	-829.81	5,474.30	1,629.59	1,481.75	147.84	11.022
14,900.00	9,255.00	13,221.01	7,815.00	135.61	129.73	27.84	-829.85	5,574.30	1,629.59	1,479.29	150.31	10.842
15,000.00	9,255.00	13,321.01	7,815.00	137.85	131.98	27.84	-829.90	5,674.30	1,629.59	1,476.82	152.78	10.666
15,100.00	9,255.00	13,421.01	7,815.00	140.09	134.23	27.84	-829.95	5,774.30	1,629.59	1,474.35	155.25	10.497
15,200.00	9,255.00	13,521.01	7,815.00	142.34	136.49	27.84	-830.00	5,874.30	1,629.59	1,471.87	157.72	10.332

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 #205H
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:	#205H	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 Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre N/S (usft)	Offset Wellbore Centre E/W (usft)				Between Centres (usft)	Between Ellipses (usft)
15,300.00	9,255.00	13,621.01	7,815.00	144.58	138.74	27.84	-830.04	5,974.30	1,629.59	1,469.40	160.20	10.172	
15,400.00	9,255.00	13,721.01	7,815.00	146.83	141.00	27.84	-830.09	6,074.30	1,629.60	1,466.92	162.68	10.017	
15,500.00	9,255.00	13,821.01	7,815.00	149.08	143.26	27.84	-830.14	6,174.30	1,629.60	1,464.44	165.16	9.867	
15,600.00	9,255.00	13,921.01	7,815.00	151.33	145.52	27.84	-830.19	6,274.30	1,629.60	1,461.95	167.64	9.721	
15,700.00	9,255.00	14,021.01	7,815.00	153.58	147.78	27.84	-830.23	6,374.30	1,629.60	1,459.47	170.13	9.579	
15,800.00	9,255.00	14,121.01	7,815.00	155.84	150.05	27.84	-830.28	6,474.30	1,629.60	1,456.98	172.62	9.441	
15,900.00	9,255.00	14,221.01	7,815.00	158.09	152.31	27.84	-830.33	6,574.30	1,629.60	1,454.49	175.11	9.306	
16,000.00	9,255.00	14,321.01	7,815.00	160.35	154.58	27.84	-830.38	6,674.30	1,629.60	1,452.00	177.60	9.176	
16,100.00	9,255.00	14,421.01	7,815.00	162.61	156.84	27.84	-830.43	6,774.30	1,629.60	1,449.50	180.09	9.049	
16,200.00	9,255.00	14,521.01	7,815.00	164.87	159.11	27.84	-830.47	6,874.30	1,629.60	1,447.01	182.59	8.925	
16,300.00	9,255.00	14,621.01	7,815.00	167.13	161.38	27.84	-830.52	6,974.30	1,629.60	1,444.51	185.08	8.805	
16,400.00	9,255.00	14,721.01	7,815.00	169.40	163.65	27.84	-830.57	7,074.30	1,629.60	1,442.01	187.58	8.687	
16,500.00	9,255.00	14,821.01	7,815.00	171.66	165.93	27.84	-830.62	7,174.30	1,629.60	1,439.51	190.08	8.573	
16,600.00	9,255.00	14,921.01	7,815.00	173.93	168.20	27.84	-830.66	7,274.30	1,629.60	1,437.01	192.58	8.462	
16,700.00	9,255.00	15,021.01	7,815.00	176.19	170.47	27.84	-830.71	7,374.30	1,629.60	1,434.51	195.09	8.353	
16,800.00	9,255.00	15,121.01	7,815.00	178.46	172.75	27.84	-830.76	7,474.30	1,629.60	1,432.01	197.59	8.247	
16,900.00	9,255.00	15,221.01	7,815.00	180.73	175.02	27.84	-830.81	7,574.30	1,629.60	1,429.50	200.10	8.144	
17,000.00	9,255.00	15,321.01	7,815.00	183.00	177.30	27.84	-830.85	7,674.30	1,629.60	1,426.99	202.61	8.043	
17,100.00	9,255.00	15,421.01	7,815.00	185.27	179.58	27.84	-830.90	7,774.30	1,629.60	1,424.48	205.11	7.945	
17,200.00	9,255.00	15,521.01	7,815.00	187.54	181.86	27.84	-830.95	7,874.30	1,629.60	1,421.97	207.62	7.849	
17,300.00	9,255.00	15,621.01	7,815.00	189.81	184.14	27.84	-831.00	7,974.30	1,629.60	1,419.46	210.13	7.755	
17,400.00	9,255.00	15,721.01	7,815.00	192.09	186.41	27.84	-831.04	8,074.30	1,629.60	1,416.95	212.65	7.663	
17,500.00	9,255.00	15,821.01	7,815.00	194.36	188.70	27.84	-831.09	8,174.30	1,629.60	1,414.44	215.16	7.574	
17,600.00	9,255.00	15,921.01	7,815.00	196.64	190.98	27.84	-831.14	8,274.30	1,629.60	1,411.93	217.67	7.486	
17,700.00	9,255.00	16,021.01	7,815.00	198.91	193.26	27.84	-831.19	8,374.30	1,629.60	1,409.41	220.19	7.401	
17,800.00	9,255.00	16,121.01	7,815.00	201.19	195.54	27.84	-831.23	8,474.30	1,629.60	1,406.90	222.70	7.317	
17,900.00	9,255.00	16,221.01	7,815.00	203.47	197.82	27.84	-831.28	8,574.30	1,629.60	1,404.38	225.22	7.236	
18,000.00	9,255.00	16,321.01	7,815.00	205.74	200.11	27.84	-831.33	8,674.30	1,629.60	1,401.86	227.74	7.156	
18,100.00	9,255.00	16,421.01	7,815.00	208.02	202.39	27.84	-831.38	8,774.30	1,629.60	1,399.34	230.26	7.077	
18,200.00	9,255.00	16,521.01	7,815.00	210.30	204.68	27.84	-831.42	8,874.30	1,629.60	1,396.82	232.78	7.001	
18,300.00	9,255.00	16,621.01	7,815.00	212.58	206.96	27.84	-831.47	8,974.30	1,629.60	1,394.30	235.30	6.926	
18,400.00	9,255.00	16,721.01	7,815.00	214.86	209.25	27.84	-831.52	9,074.30	1,629.60	1,391.78	237.82	6.852	
18,500.00	9,255.00	16,821.01	7,815.00	217.14	211.53	27.84	-831.57	9,174.30	1,629.60	1,389.26	240.34	6.780	
18,600.00	9,255.00	16,921.01	7,815.00	219.43	213.82	27.84	-831.62	9,274.30	1,629.60	1,386.74	242.86	6.710	
18,700.00	9,255.00	17,021.01	7,815.00	221.71	216.11	27.84	-831.66	9,374.30	1,629.60	1,384.22	245.38	6.641	
18,800.00	9,255.00	17,121.01	7,815.00	223.99	218.40	27.84	-831.71	9,474.30	1,629.60	1,381.69	247.91	6.573	
18,900.00	9,255.00	17,221.01	7,815.00	226.28	220.68	27.84	-831.76	9,574.30	1,629.60	1,379.17	250.43	6.507	
19,000.00	9,255.00	17,321.01	7,815.00	228.56	222.97	27.84	-831.81	9,674.30	1,629.60	1,376.64	252.96	6.442	
19,100.00	9,255.00	17,421.01	7,815.00	230.84	225.26	27.84	-831.85	9,774.30	1,629.60	1,374.12	255.48	6.378	
19,200.00	9,255.00	17,521.01	7,815.00	233.13	227.55	27.84	-831.90	9,874.30	1,629.60	1,371.59	258.01	6.316	
19,300.00	9,255.00	17,621.01	7,815.00	235.41	229.84	27.84	-831.95	9,974.30	1,629.60	1,369.06	260.54	6.255	
19,400.00	9,255.00	17,721.01	7,815.00	236.87	232.13	27.84	-832.00	10,074.30	1,629.60	1,367.04	262.56	6.207	
19,407.34	9,255.00	17,728.36	7,815.00	236.98	232.30	27.84	-832.00	10,081.64	1,629.60	1,366.90	262.70	6.203 SF	

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #205H
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:	#205H	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		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	0.00	110.00	0.00	110.00				
100.00	100.00	100.00	100.00	0.13	0.13	0.00	110.00	0.00	110.00	109.74	0.26	429.172	
200.00	200.00	200.00	200.00	0.49	0.49	0.00	110.00	0.00	110.00	109.03	0.97	113.023	
300.00	300.00	300.00	300.00	0.85	0.85	0.00	110.00	0.00	110.00	108.31	1.69	65.081	
400.00	400.00	400.00	400.00	1.20	1.20	0.00	110.00	0.00	110.00	107.59	2.41	45.697	
500.00	500.00	500.00	500.00	1.56	1.56	0.00	110.00	0.00	110.00	106.88	3.12	35.210	
600.00	600.00	600.00	600.00	1.92	1.92	0.00	110.00	0.00	110.00	106.16	3.84	28.638	
700.00	700.00	700.00	700.00	2.28	2.28	0.00	110.00	0.00	110.00	105.44	4.56	24.134	
800.00	800.00	800.00	800.00	2.64	2.64	0.00	110.00	0.00	110.00	104.73	5.27	20.853	
900.00	899.98	900.02	899.98	2.99	3.00	53.74	110.00	0.00	108.96	102.97	5.99	18.193	
1,000.00	999.84	1,000.16	999.84	3.35	3.35	56.07	110.00	0.00	105.95	99.24	6.70	15.806	
1,100.00	1,099.45	1,100.55	1,099.45	3.71	3.71	60.23	110.00	0.00	101.33	93.91	7.42	13.654	
1,200.00	1,198.72	1,201.28	1,198.72	4.07	4.08	66.54	110.00	0.00	95.88	87.74	8.15	11.768	
1,300.00	1,297.86	1,302.14	1,297.86	4.44	4.44	74.00	110.00	0.00	91.44	82.56	8.88	10.297	
1,400.00	1,397.01	1,402.99	1,397.01	4.82	4.80	82.06	110.00	0.00	88.70	79.09	9.62	9.223	
1,494.72	1,490.92	1,509.08	1,490.92	5.18	5.18	90.00	110.00	0.00	87.84	77.48	10.36	8.482 CC, ES	
1,500.00	1,496.15	1,503.85	1,496.15	5.20	5.16	90.45	110.00	0.00	87.84	77.48	10.36	8.482	
1,600.00	1,595.30	1,604.70	1,595.30	5.58	5.52	98.81	110.00	0.00	88.90	77.81	11.09	8.013	
1,700.00	1,694.44	1,705.56	1,694.44	5.96	5.88	106.82	110.00	0.00	91.83	80.00	11.83	7.763	
1,800.00	1,793.59	1,806.41	1,793.59	6.35	6.25	114.20	110.00	0.00	96.44	83.88	12.56	7.679	
1,900.00	1,892.74	1,907.27	1,892.74	6.74	6.61	120.83	110.00	0.00	102.52	89.24	13.28	7.717	
2,000.00	1,991.88	1,991.88	1,991.88	7.13	6.91	126.65	110.00	0.00	109.82	95.87	13.95	7.873	
2,100.00	2,091.03	2,092.98	2,092.98	7.52	7.27	131.17	111.12	-1.01	117.35	102.68	14.67	7.998	
2,200.00	2,190.17	2,194.91	2,194.76	7.91	7.63	133.78	114.91	-4.45	123.55	108.15	15.40	8.023	
2,300.00	2,289.32	2,304.50	2,295.05	8.30	8.02	135.11	120.66	-9.67	128.42	112.26	16.16	7.948	
2,400.00	2,388.46	2,404.65	2,394.58	8.69	8.38	136.27	126.50	-14.97	133.26	116.37	16.88	7.893	
2,500.00	2,487.61	2,504.80	2,494.12	9.08	8.74	137.35	132.34	-20.27	138.14	120.53	17.61	7.844	
2,600.00	2,586.75	2,604.96	2,593.66	9.48	9.10	138.36	138.18	-25.56	143.08	124.74	18.34	7.801	
2,700.00	2,685.90	2,705.11	2,693.19	9.87	9.46	139.30	144.02	-30.86	148.05	128.98	19.07	7.764	
2,800.00	2,785.04	2,805.26	2,792.73	10.27	9.82	140.18	149.86	-36.15	153.06	133.26	19.80	7.731	
2,900.00	2,884.19	2,905.41	2,892.27	10.66	10.19	141.00	155.69	-41.45	158.11	137.58	20.53	7.702	
3,000.00	2,983.34	3,005.57	2,991.80	11.06	10.55	141.77	161.53	-46.75	163.18	141.92	21.26	7.676	
3,100.00	3,082.48	3,105.72	3,091.34	11.45	10.91	142.50	167.37	-52.04	168.29	146.29	21.99	7.652	
3,200.00	3,181.63	3,205.87	3,190.87	11.85	11.28	143.18	173.21	-57.34	173.41	150.89	22.72	7.632	
3,300.00	3,280.77	3,306.02	3,290.41	12.24	11.64	143.82	179.05	-62.64	178.56	155.11	23.45	7.613	
3,400.00	3,380.14	3,406.10	3,390.02	12.63	12.01	144.12	184.89	-67.94	182.19	158.01	24.18	7.533	
3,500.00	3,479.84	3,506.11	3,489.70	13.00	12.38	143.74	190.74	-73.24	183.00	158.09	24.91	7.345	
3,600.00	3,579.75	3,606.19	3,589.30	13.36	12.74	142.68	196.58	-78.54	181.03	155.38	25.64	7.060	
3,700.00	3,679.74	3,706.44	3,688.74	13.70	13.11	87.92	202.41	-83.83	176.51	150.14	26.37	6.694	
3,800.00	3,779.74	3,806.76	3,788.12	14.03	13.48	85.90	208.24	-89.12	171.52	144.43	27.10	6.330	
3,900.00	3,879.74	3,907.07	3,887.49	14.37	13.85	83.77	214.07	-94.41	166.76	138.93	27.83	5.993	
4,000.00	3,979.74	4,007.38	3,986.87	14.71	14.21	81.52	219.90	-99.70	162.23	133.67	28.56	5.680	
4,100.00	4,079.74	4,107.69	4,086.25	15.04	14.58	79.14	225.73	-104.98	157.98	128.68	29.29	5.393	
4,200.00	4,179.74	4,208.01	4,185.62	15.38	14.95	76.64	231.56	-110.27	154.01	123.97	30.03	5.128	
4,300.00	4,279.74	4,308.32	4,285.00	15.72	15.32	74.01	237.39	-115.56	150.35	119.57	30.77	4.886	
4,400.00	4,379.74	4,408.63	4,384.38	16.07	15.69	71.26	243.22	-120.85	147.02	115.51	31.51	4.665	
4,500.00	4,479.74	4,508.94	4,483.75	16.41	16.06	68.38	249.05	-126.14	144.05	111.79	32.26	4.466	
4,600.00	4,579.74	4,609.25	4,583.13	16.75	16.43	65.40	254.88	-131.42	141.46	108.46	33.00	4.287	
4,700.00	4,679.74	4,709.57	4,682.51	17.09	16.80	62.31	260.71	-136.71	139.26	105.52	33.74	4.127	
4,800.00	4,779.74	4,809.88	4,781.88	17.44	17.17	59.13	266.53	-142.00	137.49	103.01	34.49	3.987	
4,900.00	4,879.74	4,889.81	4,881.26	17.78	17.47	55.88	272.36	-147.29	136.15	101.00	35.15	3.873	
5,000.00	4,979.74	4,989.50	4,980.64	18.13	17.83	52.58	278.19	-152.58	135.26	99.37	35.89	3.769	

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 #205H
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:	#205H	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		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	
5,100.00	5,079.74	5,089.19	5,080.01	18.47	18.20	49.25	284.02	-157.86	134.83	98.21	36.63	3.681	
5,143.58	5,123.32	5,132.63	5,123.32	18.62	18.36	47.79	286.56	-160.17	134.79	97.84	36.95	3.648	
5,200.00	5,179.74	5,188.87	5,179.39	18.82	18.57	45.90	289.85	-163.15	134.86	97.50	37.36	3.610	
5,300.00	5,279.74	5,288.56	5,278.77	19.17	18.94	42.57	295.68	-168.44	135.35	97.27	38.09	3.554	
5,400.00	5,379.74	5,388.25	5,378.14	19.51	19.31	39.27	301.51	-173.73	136.30	97.49	38.81	3.512	
5,500.00	5,479.74	5,487.94	5,477.52	19.86	19.68	36.03	307.34	-179.01	137.70	98.16	39.53	3.483	
5,600.00	5,579.74	5,587.63	5,576.90	20.21	20.05	32.86	313.17	-184.30	139.52	99.27	40.25	3.466	
5,700.00	5,679.74	5,687.31	5,676.27	20.56	20.42	29.79	319.00	-189.59	141.77	100.80	40.96	3.461	
5,800.00	5,779.74	5,787.00	5,775.65	20.91	20.79	26.82	324.83	-194.88	144.41	102.73	41.68	3.465	
5,900.00	5,879.74	5,886.69	5,875.03	21.25	21.15	23.96	330.66	-200.17	147.43	105.04	42.38	3.478	
6,000.00	5,979.74	5,986.38	5,974.40	21.60	21.52	21.22	336.48	-205.45	150.80	107.71	43.09	3.500	
6,100.00	6,079.74	6,086.06	6,073.78	21.95	21.89	18.61	342.31	-210.74	154.50	110.71	43.79	3.528	
6,200.00	6,179.74	6,185.75	6,173.16	22.30	22.26	16.12	348.14	-216.03	158.51	114.01	44.49	3.563	
6,300.00	6,279.74	6,285.44	6,272.53	22.65	22.63	13.76	353.97	-221.32	162.80	117.61	45.19	3.602	
6,400.00	6,379.74	6,385.13	6,371.91	23.00	23.00	11.52	359.80	-226.61	167.35	121.46	45.89	3.647	
6,500.00	6,479.74	6,484.82	6,471.29	23.35	23.37	9.41	365.63	-231.89	172.15	125.56	46.59	3.695	
6,600.00	6,579.74	6,584.50	6,570.66	23.70	23.74	7.41	371.46	-237.18	177.17	129.88	47.29	3.746	
6,700.00	6,679.74	6,684.19	6,670.04	24.05	24.11	5.52	377.29	-242.47	182.39	134.40	47.99	3.801	
6,800.00	6,779.74	6,783.88	6,769.42	24.41	24.48	3.74	383.12	-247.76	187.80	139.11	48.69	3.857	
6,900.00	6,879.74	6,888.37	6,873.70	24.76	24.86	2.35	387.94	-252.13	192.19	142.78	49.42	3.889	
7,000.00	6,979.74	6,993.42	6,978.71	25.11	25.24	1.79	389.94	-253.95	194.04	143.92	50.12	3.871	
7,100.00	7,079.74	7,105.55	7,079.74	25.46	25.63	1.77	390.00	-254.00	194.09	143.23	50.86	3.816	
7,200.00	7,179.74	7,205.55	7,179.74	25.81	25.98	1.77	390.00	-254.00	194.09	142.53	51.57	3.764	
7,300.00	7,279.74	7,305.55	7,279.74	26.17	26.33	1.77	390.00	-254.00	194.09	141.82	52.27	3.713	
7,400.00	7,379.74	7,405.55	7,379.74	26.52	26.68	1.77	390.00	-254.00	194.09	141.12	52.98	3.664	
7,500.00	7,479.74	7,505.55	7,479.74	26.87	27.03	1.77	390.00	-254.00	194.09	140.41	53.68	3.616	
7,600.00	7,579.74	7,605.55	7,579.74	27.22	27.38	1.77	390.00	-254.00	194.09	139.70	54.39	3.569	
7,700.00	7,679.74	7,705.55	7,679.74	27.58	27.73	1.77	390.00	-254.00	194.09	139.00	55.09	3.523	
7,800.00	7,779.74	7,805.55	7,779.74	27.93	28.08	1.77	390.00	-254.00	194.09	138.29	55.80	3.478	
7,900.00	7,879.74	7,905.55	7,879.74	28.28	28.43	1.77	390.00	-254.00	194.09	137.59	56.51	3.435	
8,000.00	7,979.74	8,005.55	7,979.74	28.63	28.78	1.77	390.00	-254.00	194.09	136.88	57.21	3.392	
8,100.00	8,079.74	8,105.55	8,079.74	28.99	29.13	1.77	390.00	-254.00	194.09	136.17	57.92	3.351	
8,200.00	8,179.74	8,205.55	8,179.74	29.34	29.49	1.77	390.00	-254.00	194.09	135.46	58.63	3.311	
8,300.00	8,279.74	8,305.55	8,279.74	29.70	29.84	1.77	390.00	-254.00	194.09	134.76	59.34	3.271	
8,400.00	8,379.74	8,405.55	8,379.74	30.05	30.19	1.77	390.00	-254.00	194.09	134.05	60.04	3.232	
8,500.00	8,479.74	8,494.45	8,479.74	30.40	30.50	1.77	390.00	-254.00	194.09	133.38	60.71	3.197	
8,502.67	8,482.41	8,502.88	8,482.41	30.41	30.53	1.77	390.00	-254.00	194.09	133.34	60.75	3.195	
8,600.00	8,579.74	8,592.04	8,577.30	30.76	30.84	2.18	390.20	-252.60	194.36	132.93	61.42	3.164	
8,700.00	8,679.74	8,684.21	8,668.32	31.11	31.13	6.14	392.15	-238.91	197.61	135.52	62.09	3.183	
8,800.00	8,779.27	8,772.02	8,751.92	31.44	31.39	-95.18	395.89	-212.60	208.03	145.56	62.46	3.330	
8,900.00	8,875.84	8,856.48	8,827.60	31.73	31.61	-89.53	401.15	-175.65	226.78	164.36	62.42	3.633	
9,000.00	8,966.53	8,937.71	8,894.46	32.01	31.81	-84.77	407.63	-130.10	252.04	189.93	62.11	4.058	
9,100.00	9,048.57	9,015.95	8,952.10	32.28	32.00	-80.88	415.08	-77.79	282.12	220.32	61.79	4.565	
9,200.00	9,119.47	9,091.60	9,000.48	32.57	32.22	-77.71	423.26	-20.30	315.59	253.87	61.72	5.113	
9,300.00	9,177.08	9,165.12	9,039.78	32.91	32.49	-75.12	432.01	41.16	351.36	289.29	62.06	5.661	
9,400.00	9,219.65	9,237.05	9,070.24	33.33	32.80	-72.97	441.18	105.62	388.50	325.64	62.86	6.181	
9,500.00	9,245.89	9,308.02	9,092.07	33.84	33.16	-71.19	450.69	172.44	426.24	362.19	64.06	6.654	
9,600.00	9,254.99	9,378.71	9,105.35	34.44	33.57	-69.74	460.47	241.13	463.91	398.35	65.55	7.077	
9,700.00	9,255.00	9,451.75	9,110.00	35.15	34.03	-71.87	470.73	313.24	501.22	434.18	67.04	7.477	
9,800.00	9,255.00	9,578.05	9,110.00	36.00	34.99	-73.62	484.38	438.78	533.10	464.07	69.03	7.723	
9,900.00	9,255.00	9,712.61	9,110.00	36.97	36.22	-74.65	489.76	573.20	553.91	482.59	71.31	7.767	
10,000.00	9,255.00	9,814.48	9,110.00	38.06	37.30	-75.09	489.77	675.07	565.96	492.49	73.47	7.703	

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 #205H
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:	#205H	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		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	
10,100.00	9,255.00	9,914.20	9,110.00	39.24	38.46	-75.33	489.75	774.79	572.97	497.19	75.78	7.561	
10,200.00	9,255.00	10,014.17	9,110.00	40.50	39.72	-75.39	489.73	874.76	574.96	496.71	78.25	7.348	
10,300.00	9,255.00	10,114.17	9,110.00	41.85	41.07	-75.39	489.71	974.76	574.99	494.11	80.88	7.109	
10,400.00	9,255.00	10,214.17	9,110.00	43.28	42.51	-75.39	489.69	1,074.76	575.02	491.34	83.68	6.872	
10,500.00	9,255.00	10,314.17	9,110.00	44.78	44.02	-75.39	489.67	1,174.76	575.05	488.43	86.61	6.639	
10,600.00	9,255.00	10,414.17	9,110.00	46.35	45.59	-75.40	489.65	1,274.76	575.07	485.40	89.67	6.413	
10,700.00	9,255.00	10,514.17	9,110.00	47.98	47.23	-75.40	489.64	1,374.76	575.10	482.25	92.85	6.194	
10,800.00	9,255.00	10,614.17	9,110.00	49.66	48.92	-75.40	489.62	1,474.76	575.13	478.99	96.14	5.982	
10,900.00	9,255.00	10,714.17	9,110.00	51.40	50.66	-75.40	489.60	1,574.76	575.16	475.64	99.52	5.780	
11,000.00	9,255.00	10,814.17	9,110.00	53.17	52.44	-75.40	489.58	1,674.76	575.18	472.20	102.98	5.585	
11,100.00	9,255.00	10,914.17	9,110.00	54.99	54.26	-75.40	489.56	1,774.76	575.21	468.69	106.52	5.400	
11,200.00	9,255.00	11,014.17	9,110.00	56.84	56.12	-75.40	489.54	1,874.76	575.24	465.11	110.13	5.223	
11,300.00	9,255.00	11,114.17	9,110.00	58.72	58.01	-75.40	489.52	1,974.76	575.27	461.47	113.80	5.055	
11,400.00	9,255.00	11,214.17	9,110.00	60.64	59.93	-75.40	489.50	2,074.76	575.29	457.77	117.53	4.895	
11,500.00	9,255.00	11,314.17	9,110.00	62.58	61.87	-75.40	489.48	2,174.76	575.32	454.01	121.31	4.743	
11,600.00	9,255.00	11,414.17	9,110.00	64.54	63.84	-75.40	489.47	2,274.76	575.35	450.21	125.13	4.598	
11,700.00	9,255.00	11,514.17	9,110.00	66.53	65.84	-75.40	489.45	2,374.76	575.38	446.37	129.00	4.460	
11,800.00	9,255.00	11,614.17	9,110.00	68.54	67.85	-75.40	489.43	2,474.76	575.40	442.49	132.91	4.329	
11,900.00	9,255.00	11,714.17	9,110.00	70.56	69.88	-75.41	489.41	2,574.76	575.43	438.57	136.86	4.205	
12,000.00	9,255.00	11,814.17	9,110.00	72.60	71.93	-75.41	489.39	2,674.76	575.46	434.63	140.83	4.086	
12,100.00	9,255.00	11,914.17	9,110.00	74.66	73.99	-75.41	489.37	2,774.76	575.49	430.65	144.84	3.973	
12,200.00	9,255.00	12,014.17	9,110.00	76.74	76.07	-75.41	489.35	2,874.76	575.51	426.64	148.87	3.866	
12,300.00	9,255.00	12,114.17	9,110.00	78.82	78.16	-75.41	489.33	2,974.76	575.54	422.61	152.93	3.763	
12,400.00	9,255.00	12,214.17	9,110.00	80.92	80.26	-75.41	489.32	3,074.76	575.57	418.55	157.02	3.666	
12,500.00	9,255.00	12,314.17	9,110.00	83.03	82.37	-75.41	489.30	3,174.76	575.60	414.47	161.12	3.572	
12,600.00	9,255.00	12,414.17	9,110.00	85.15	84.49	-75.41	489.28	3,274.76	575.62	410.38	165.25	3.483	
12,700.00	9,255.00	12,514.17	9,110.00	87.28	86.63	-75.41	489.26	3,374.76	575.65	406.26	169.39	3.398	
12,800.00	9,255.00	12,614.17	9,110.00	89.41	88.77	-75.41	489.24	3,474.76	575.68	402.13	173.55	3.317	
12,900.00	9,255.00	12,714.17	9,110.00	91.56	90.92	-75.41	489.22	3,574.76	575.71	397.98	177.73	3.239	
13,000.00	9,255.00	12,814.17	9,110.00	93.71	93.07	-75.41	489.20	3,674.76	575.73	393.82	181.92	3.165	
13,100.00	9,255.00	12,914.17	9,110.00	95.88	95.24	-75.41	489.18	3,774.76	575.76	389.64	186.12	3.093	
13,200.00	9,255.00	13,014.17	9,110.00	98.04	97.41	-75.41	489.17	3,874.76	575.79	385.45	190.34	3.025	
13,300.00	9,255.00	13,114.17	9,110.00	100.22	99.59	-75.41	489.15	3,974.76	575.82	381.24	194.57	2.959	
13,400.00	9,255.00	13,214.17	9,110.00	102.40	101.77	-75.42	489.13	4,074.76	575.84	377.03	198.81	2.896	
13,500.00	9,255.00	13,314.17	9,110.00	104.58	103.96	-75.42	489.11	4,174.76	575.87	372.81	203.07	2.836	
13,600.00	9,255.00	13,414.17	9,110.00	106.77	106.15	-75.42	489.09	4,274.76	575.90	368.57	207.33	2.778	
13,700.00	9,255.00	13,514.17	9,110.00	108.97	108.35	-75.42	489.07	4,374.76	575.93	364.33	211.60	2.722	
13,800.00	9,255.00	13,614.17	9,110.00	111.17	110.55	-75.42	489.05	4,474.76	575.95	360.07	215.88	2.668	
13,900.00	9,255.00	13,714.17	9,110.00	113.38	112.76	-75.42	489.03	4,574.76	575.98	355.81	220.17	2.616	
14,000.00	9,255.00	13,814.17	9,110.00	115.58	114.97	-75.42	489.02	4,674.76	576.01	351.54	224.47	2.566	
14,100.00	9,255.00	13,914.17	9,110.00	117.80	117.19	-75.42	489.00	4,774.76	576.04	347.26	228.77	2.518	
14,200.00	9,255.00	14,014.17	9,110.00	120.01	119.40	-75.42	488.98	4,874.76	576.06	342.98	233.08	2.471	
14,300.00	9,255.00	14,114.17	9,110.00	122.23	121.63	-75.42	488.96	4,974.76	576.09	338.69	237.40	2.427	
14,400.00	9,255.00	14,214.17	9,110.00	124.46	123.85	-75.42	488.94	5,074.76	576.12	334.39	241.73	2.383	
14,500.00	9,255.00	14,314.17	9,110.00	126.68	126.08	-75.42	488.92	5,174.76	576.15	330.09	246.06	2.342	
14,600.00	9,255.00	14,414.17	9,110.00	128.91	128.31	-75.42	488.90	5,274.76	576.17	325.78	250.39	2.301	
14,700.00	9,255.00	14,514.17	9,110.00	131.14	130.54	-75.42	488.88	5,374.76	576.20	321.47	254.73	2.262	
14,800.00	9,255.00	14,614.17	9,110.00	133.38	132.78	-75.43	488.86	5,474.76	576.23	317.15	259.08	2.224	
14,900.00	9,255.00	14,714.17	9,110.00	135.61	135.02	-75.43	488.85	5,574.76	576.26	312.83	263.43	2.188	
15,000.00	9,255.00	14,814.17	9,110.00	137.85	137.26	-75.43	488.83	5,674.76	576.29	308.50	267.79	2.152	
15,100.00	9,255.00	14,914.17	9,110.00	140.09	139.50	-75.43	488.81	5,774.76	576.31	304.17	272.15	2.118	
15,200.00	9,255.00	15,014.17	9,110.00	142.34	141.75	-75.43	488.79	5,874.76	576.34	299.83	276.51	2.084	

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 #205H
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:	#205H	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							
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	
15,300.00	9,255.00	15,114.17	9,110.00	144.58	143.99	-75.43	488.77	5,974.76	576.37	295.49	280.88	2.052	
15,400.00	9,255.00	15,214.17	9,110.00	146.83	146.24	-75.43	488.75	6,074.76	576.40	291.14	285.25	2.021	
15,500.00	9,255.00	15,314.17	9,110.00	149.08	148.49	-75.43	488.73	6,174.76	576.42	286.80	289.63	1.990	
15,600.00	9,255.00	15,414.17	9,110.00	151.33	150.75	-75.43	488.71	6,274.76	576.45	282.44	294.01	1.961	
15,700.00	9,255.00	15,514.17	9,110.00	153.58	153.00	-75.43	488.70	6,374.76	576.48	278.09	298.39	1.932	
15,800.00	9,255.00	15,614.17	9,110.00	155.84	155.26	-75.43	488.68	6,474.76	576.51	273.73	302.77	1.904	
15,900.00	9,255.00	15,714.17	9,110.00	158.09	157.51	-75.43	488.66	6,574.76	576.53	269.37	307.16	1.877	
16,000.00	9,255.00	15,814.17	9,110.00	160.35	159.77	-75.43	488.64	6,674.76	576.56	265.01	311.56	1.851	
16,100.00	9,255.00	15,914.17	9,110.00	162.61	162.03	-75.43	488.62	6,774.76	576.59	260.64	315.95	1.825	
16,200.00	9,255.00	16,014.17	9,110.00	164.87	164.30	-75.44	488.60	6,874.76	576.62	256.27	320.35	1.800	
16,300.00	9,255.00	16,114.17	9,110.00	167.13	166.56	-75.44	488.58	6,974.76	576.64	251.90	324.75	1.776	
16,400.00	9,255.00	16,214.17	9,110.00	169.40	168.82	-75.44	488.56	7,074.76	576.67	247.52	329.15	1.752	
16,500.00	9,255.00	16,314.17	9,110.00	171.66	171.09	-75.44	488.55	7,174.76	576.70	243.15	333.55	1.729	
16,600.00	9,255.00	16,414.17	9,110.00	173.93	173.35	-75.44	488.53	7,274.76	576.73	238.77	337.96	1.706	
16,700.00	9,255.00	16,514.17	9,110.00	176.19	175.62	-75.44	488.51	7,374.76	576.75	234.39	342.37	1.685	
16,800.00	9,255.00	16,614.17	9,110.00	178.46	177.89	-75.44	488.49	7,474.76	576.78	230.00	346.78	1.663	
16,900.00	9,255.00	16,714.17	9,110.00	180.73	180.16	-75.44	488.47	7,574.76	576.81	225.62	351.19	1.642	
17,000.00	9,255.00	16,814.17	9,110.00	183.00	182.43	-75.44	488.45	7,674.76	576.84	221.23	355.61	1.622	
17,100.00	9,255.00	16,914.17	9,110.00	185.27	184.70	-75.44	488.43	7,774.76	576.86	216.84	360.02	1.602	
17,200.00	9,255.00	17,014.17	9,110.00	187.54	186.98	-75.44	488.41	7,874.76	576.89	212.45	364.44	1.583	
17,300.00	9,255.00	17,114.17	9,110.00	189.81	189.25	-75.44	488.40	7,974.76	576.92	208.06	368.86	1.564	
17,400.00	9,255.00	17,214.17	9,110.00	192.09	191.52	-75.44	488.38	8,074.76	576.95	203.66	373.29	1.546	
17,500.00	9,255.00	17,314.17	9,110.00	194.36	193.80	-75.44	488.36	8,174.76	576.97	199.26	377.71	1.528	
17,600.00	9,255.00	17,414.17	9,110.00	196.64	196.07	-75.45	488.34	8,274.76	577.00	194.87	382.13	1.510	
17,700.00	9,255.00	17,514.17	9,110.00	198.91	198.35	-75.45	488.32	8,374.76	577.03	190.47	386.56	1.493 Level 3	
17,800.00	9,255.00	17,614.17	9,110.00	201.19	200.63	-75.45	488.30	8,474.76	577.06	186.07	390.99	1.476 Level 3	
17,900.00	9,255.00	17,714.17	9,110.00	203.47	202.91	-75.45	488.28	8,574.76	577.08	181.66	395.42	1.459 Level 3	
18,000.00	9,255.00	17,814.17	9,110.00	205.74	205.19	-75.45	488.26	8,674.76	577.11	177.26	399.85	1.443 Level 3	
18,100.00	9,255.00	17,914.17	9,110.00	208.02	207.46	-75.45	488.25	8,774.76	577.14	172.86	404.28	1.428 Level 3	
18,200.00	9,255.00	18,014.17	9,110.00	210.30	209.75	-75.45	488.23	8,874.76	577.17	168.45	408.72	1.412 Level 3	
18,300.00	9,255.00	18,114.17	9,110.00	212.58	212.03	-75.45	488.21	8,974.76	577.19	164.04	413.15	1.397 Level 3	
18,400.00	9,255.00	18,214.17	9,110.00	214.86	214.31	-75.45	488.19	9,074.76	577.22	159.63	417.59	1.382 Level 3	
18,500.00	9,255.00	18,314.17	9,110.00	217.14	216.59	-75.45	488.17	9,174.76	577.25	155.22	422.03	1.368 Level 3	
18,600.00	9,255.00	18,414.17	9,110.00	219.43	218.87	-75.45	488.15	9,274.76	577.28	150.81	426.46	1.354 Level 3	
18,700.00	9,255.00	18,514.17	9,110.00	221.71	221.15	-75.45	488.13	9,374.76	577.30	146.40	430.90	1.340 Level 3	
18,800.00	9,255.00	18,614.17	9,110.00	223.99	223.44	-75.45	488.11	9,474.76	577.33	141.99	435.35	1.326 Level 3	
18,900.00	9,255.00	18,714.17	9,110.00	226.28	225.72	-75.45	488.09	9,574.76	577.36	137.57	439.79	1.313 Level 3	
19,000.00	9,255.00	18,814.17	9,110.00	228.56	228.01	-75.46	488.08	9,674.76	577.39	133.16	444.23	1.300 Level 3	
19,100.00	9,255.00	18,914.17	9,110.00	230.84	230.29	-75.46	488.06	9,774.76	577.41	128.74	448.67	1.287 Level 3	
19,200.00	9,255.00	19,014.17	9,110.00	233.13	232.58	-75.46	488.04	9,874.76	577.44	124.32	453.12	1.274 Level 3	
19,300.00	9,255.00	19,114.17	9,110.00	235.41	234.86	-75.46	488.02	9,974.76	577.47	119.91	457.56	1.262 Level 3	
19,400.00	9,255.00	19,214.17	9,110.00	236.87	237.15	-75.46	488.00	10,074.76	577.50	116.30	461.20	1.252 Level 3	
19,400.00	9,255.00	19,214.17	9,110.00	236.87	237.15	-75.46	488.00	10,074.76	577.50	116.30	461.20	1.252 Level 3	
19,407.34	9,255.00	19,219.41	9,110.00	236.98	237.27	-75.46	488.00	10,080.00	577.50	116.09	461.42	1.252 Level 3, 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 #205H
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:	#205H	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 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	15.26	110.00	30.00	114.02				
100.00	100.00	101.00	101.00	0.13	0.13	15.26	110.00	30.00	114.02	113.76	0.26	438.711	
200.00	200.00	201.00	201.00	0.49	0.49	15.26	110.00	30.00	114.02	113.04	0.98	116.721	
300.00	300.00	301.00	301.00	0.85	0.85	15.26	110.00	30.00	114.02	112.32	1.69	67.316	
400.00	400.00	401.00	401.00	1.20	1.21	15.26	110.00	30.00	114.02	111.61	2.41	47.296	
500.00	500.00	501.00	501.00	1.56	1.57	15.26	110.00	30.00	114.02	110.89	3.13	36.455	
600.00	600.00	601.00	601.00	1.92	1.92	15.26	110.00	30.00	114.02	110.17	3.84	29.656	
700.00	700.00	701.00	701.00	2.28	2.28	15.26	110.00	30.00	114.02	109.46	4.56	24.995	
800.00	800.00	801.00	801.00	2.64	2.64	15.26	110.00	30.00	114.02	108.74	5.28	21.600	
900.00	899.98	900.98	900.98	2.99	3.00	68.08	110.00	30.00	113.38	107.39	5.99	18.921	
1,000.00	999.84	1,000.84	1,000.84	3.35	3.36	71.62	110.00	30.00	111.62	104.91	6.70	16.648	
1,100.00	1,099.45	1,100.45	1,100.45	3.71	3.71	75.99	110.00	30.00	109.18	101.76	7.42	14.713	
1,200.00	1,198.72	1,200.28	1,199.72	4.07	4.07	82.27	110.00	30.00	106.88	98.74	8.14	13.126	
1,300.00	1,297.86	1,301.14	1,298.86	4.44	4.43	89.22	110.00	30.00	105.91	97.03	8.87	11.933	
1,311.08	1,308.85	1,309.85	1,309.85	4.48	4.47	90.00	110.00	30.00	105.90	96.95	8.95	11.835 CC	
1,400.00	1,397.01	1,401.99	1,398.01	4.82	4.80	96.20	110.00	30.00	106.53	96.92	9.61	11.085 ES	
1,500.00	1,496.15	1,502.85	1,497.15	5.20	5.16	102.99	110.00	30.00	108.73	98.38	10.35	10.510	
1,600.00	1,595.30	1,603.70	1,596.30	5.58	5.52	109.44	110.00	30.00	112.40	101.32	11.08	10.145	
1,700.00	1,694.44	1,704.56	1,695.44	5.96	5.88	115.41	110.00	30.00	117.42	105.61	11.81	9.942	
1,800.00	1,793.59	1,805.41	1,794.59	6.35	6.24	120.84	110.00	30.00	123.62	111.08	12.54	9.858	
1,900.00	1,892.74	1,906.27	1,893.74	6.74	6.60	125.73	110.00	30.00	130.83	117.56	13.27	9.861	
2,000.00	1,991.88	1,992.88	1,992.88	7.13	6.91	130.08	110.00	30.00	138.89	124.95	13.94	9.963	
2,100.00	2,091.03	2,093.65	2,093.63	7.52	7.26	134.55	108.50	29.70	147.16	132.51	14.65	10.047	
2,200.00	2,190.17	2,193.93	2,193.78	7.91	7.59	139.76	103.57	28.72	155.30	139.97	15.33	10.132	
2,300.00	2,289.32	2,293.34	2,292.82	8.30	7.91	145.55	95.29	27.07	164.03	148.03	16.00	10.251	
2,400.00	2,388.46	2,391.64	2,390.43	8.69	8.24	151.78	83.79	24.77	174.08	157.41	16.67	10.442	
2,500.00	2,487.61	2,488.97	2,486.72	9.08	8.56	158.00	69.96	22.01	186.14	168.80	17.34	10.736	
2,600.00	2,586.75	2,586.21	2,582.92	9.48	8.90	163.48	56.00	19.23	200.18	182.17	18.01	11.115	
2,700.00	2,685.90	2,683.46	2,679.12	9.87	9.24	168.22	42.04	16.44	215.83	197.14	18.69	11.547	
2,800.00	2,785.04	2,780.71	2,775.32	10.27	9.58	172.32	28.08	13.66	232.77	213.39	19.38	12.011	
2,900.00	2,884.19	2,877.96	2,871.52	10.66	9.93	175.85	14.12	10.88	250.73	230.65	20.07	12.490	
3,000.00	2,983.34	2,975.21	2,967.72	11.06	10.29	178.92	0.15	8.09	269.50	248.73	20.77	12.973	
3,100.00	3,082.48	3,072.46	3,063.92	11.45	10.64	178.42	-13.81	5.31	288.94	267.46	21.48	13.452	
3,200.00	3,181.63	3,169.70	3,160.12	11.85	11.00	-176.09	-27.77	2.52	308.91	286.72	22.19	13.922	
3,300.00	3,280.77	3,266.95	3,256.33	12.24	11.37	-174.04	-41.73	-0.26	329.31	306.41	22.90	14.379	
3,400.00	3,380.14	3,364.54	3,352.87	12.63	11.73	-172.23	-55.74	-3.06	348.23	324.62	23.62	14.746	
3,500.00	3,479.84	3,462.68	3,449.95	13.00	12.11	-170.53	-69.83	-5.87	364.08	339.75	24.33	14.964	
3,600.00	3,579.75	3,561.25	3,547.45	13.36	12.48	-168.87	-83.98	-8.69	376.85	351.81	25.04	15.047	
3,700.00	3,679.74	3,660.11	3,645.24	13.70	12.86	139.81	-98.17	-11.52	386.70	360.95	25.75	15.015	
3,800.00	3,779.74	3,759.03	3,743.10	14.03	13.24	141.46	-112.37	-14.35	396.05	369.58	26.46	14.966	
3,900.00	3,879.74	3,857.95	3,840.96	14.37	13.62	143.03	-126.57	-17.19	405.70	378.53	27.17	14.930	
4,000.00	3,979.74	3,956.87	3,938.81	14.71	14.01	144.53	-140.78	-20.02	415.65	387.77	27.89	14.905	
4,100.00	4,079.74	4,055.80	4,036.67	15.04	14.39	145.95	-154.98	-22.85	425.87	397.27	28.60	14.892	
4,200.00	4,179.74	4,154.72	4,134.53	15.38	14.78	147.31	-169.18	-25.68	436.34	407.03	29.31	14.887	
4,300.00	4,279.74	4,253.64	4,232.39	15.72	15.17	148.61	-183.38	-28.52	447.05	417.03	30.02	14.890	
4,400.00	4,379.74	4,352.56	4,330.24	16.07	15.55	149.85	-197.58	-31.35	457.97	427.24	30.74	14.900	
4,500.00	4,479.74	4,451.49	4,428.10	16.41	15.94	151.02	-211.78	-34.18	469.10	437.65	31.45	14.916	
4,600.00	4,579.74	4,550.41	4,525.96	16.75	16.34	152.15	-225.99	-37.01	480.41	448.25	32.16	14.937	
4,700.00	4,679.74	4,649.33	4,623.81	17.09	16.73	153.22	-240.19	-39.85	491.90	459.03	32.88	14.962	
4,800.00	4,779.74	4,748.26	4,721.67	17.44	17.12	154.24	-254.39	-42.68	503.55	469.96	33.59	14.991	
4,900.00	4,879.74	4,847.18	4,819.53	17.78	17.51	155.22	-268.59	-45.51	515.36	481.06	34.30	15.023	
5,000.00	4,979.74	4,946.10	4,917.38	18.13	17.91	156.15	-282.79	-48.35	527.31	492.29	35.02	15.058	

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 #205H
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:	#205H	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: O-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	5,079.74	5,045.02	5,015.24	18.47	18.30	157.04	-296.99	-51.18	539.39	503.66	35.73	15.095			
5,200.00	5,179.74	5,143.95	5,113.10	18.82	18.70	157.90	-311.19	-54.01	551.59	515.15	36.45	15.135			
5,300.00	5,279.74	5,242.87	5,210.96	19.17	19.10	158.71	-325.40	-56.84	563.91	526.75	37.16	15.175			
5,400.00	5,379.74	5,341.79	5,308.81	19.51	19.49	159.49	-339.60	-59.68	576.34	538.47	37.87	15.217			
5,500.00	5,479.74	5,440.71	5,406.67	19.86	19.89	160.24	-353.80	-62.51	588.87	550.28	38.59	15.260			
5,600.00	5,579.74	5,539.64	5,504.53	20.21	20.29	160.96	-368.00	-65.34	601.50	562.19	39.30	15.304			
5,700.00	5,679.74	5,638.56	5,602.38	20.56	20.69	161.65	-382.20	-68.17	614.21	574.19	40.02	15.349			
5,800.00	5,779.74	5,737.48	5,700.24	20.91	21.09	162.31	-396.40	-71.01	627.01	586.28	40.73	15.393			
5,900.00	5,879.74	5,836.41	5,798.10	21.25	21.48	162.94	-410.61	-73.84	639.89	598.44	41.45	15.439			
6,000.00	5,979.74	5,935.33	5,895.95	21.60	21.88	163.55	-424.81	-76.67	652.84	610.68	42.16	15.484			
6,100.00	6,079.74	6,034.25	5,993.81	21.95	22.28	164.13	-439.01	-79.50	665.86	622.99	42.88	15.530			
6,200.00	6,179.74	6,133.17	6,091.67	22.30	22.68	164.70	-453.21	-82.34	678.95	635.36	43.59	15.575			
6,300.00	6,279.74	6,232.10	6,189.53	22.65	23.09	165.24	-467.41	-85.17	692.10	647.79	44.31	15.620			
6,400.00	6,379.74	6,331.02	6,287.38	23.00	23.49	165.76	-481.61	-88.00	705.31	660.29	45.02	15.665			
6,500.00	6,479.74	6,429.94	6,385.24	23.35	23.89	166.26	-495.82	-90.83	718.57	672.83	45.74	15.710			
6,600.00	6,579.74	6,528.86	6,483.10	23.70	24.29	166.74	-510.02	-93.67	731.89	685.43	46.45	15.755			
6,700.00	6,679.74	6,627.79	6,580.95	24.05	24.69	167.21	-524.22	-96.50	745.26	698.08	47.17	15.799			
6,800.00	6,779.74	6,726.71	6,678.81	24.41	25.09	167.66	-538.42	-99.33	758.67	710.78	47.89	15.843			
6,900.00	6,879.74	6,825.63	6,776.67	24.76	25.50	168.09	-552.62	-102.16	772.13	723.52	48.60	15.886			
7,000.00	6,979.74	6,924.56	6,874.52	25.11	25.90	168.51	-566.82	-105.00	785.63	736.31	49.32	15.929			
7,100.00	7,079.74	7,023.48	6,972.38	25.46	26.30	168.92	-581.02	-107.83	799.17	749.13	50.04	15.972			
7,200.00	7,179.74	7,122.40	7,070.24	25.81	26.70	169.31	-595.23	-110.66	812.74	761.99	50.75	16.014			
7,300.00	7,279.74	7,253.73	7,200.49	26.17	27.23	169.75	-611.60	-113.93	824.62	772.89	51.73	15.942			
7,400.00	7,379.74	7,390.16	7,336.46	26.52	27.74	170.03	-622.42	-116.09	832.15	779.50	52.66	15.803			
7,500.00	7,479.74	7,527.34	7,473.55	26.87	28.21	170.14	-626.88	-116.98	835.25	781.76	53.49	15.615			
7,600.00	7,579.74	7,634.53	7,580.74	27.22	28.55	170.14	-627.00	-117.00	835.33	781.14	54.19	15.415			
7,700.00	7,679.74	7,734.53	7,680.74	27.58	28.86	170.14	-627.00	-117.00	835.33	780.46	54.87	15.223			
7,800.00	7,779.74	7,834.53	7,780.74	27.93	29.17	170.14	-627.00	-117.00	835.33	779.77	55.56	15.036			
7,900.00	7,879.74	7,934.53	7,880.74	28.28	29.48	170.14	-627.00	-117.00	835.33	779.09	56.24	14.853			
8,000.00	7,979.74	8,034.53	7,980.74	28.63	29.80	170.14	-627.00	-117.00	835.33	778.41	56.93	14.674			
8,100.00	8,079.74	8,134.53	8,080.74	28.99	30.11	170.14	-627.00	-117.00	835.33	777.72	57.61	14.499			
8,200.00	8,179.74	8,234.53	8,180.74	29.34	30.43	170.14	-627.00	-117.00	835.33	777.03	58.30	14.329			
8,300.00	8,279.74	8,334.53	8,280.74	29.70	30.75	170.14	-627.00	-117.00	835.33	776.35	58.99	14.162			
8,400.00	8,379.74	8,434.53	8,380.74	30.05	31.06	170.14	-627.00	-117.00	835.33	775.66	59.67	13.998			
8,500.00	8,479.74	8,534.53	8,480.74	30.40	31.38	170.14	-627.00	-117.00	835.33	774.97	60.36	13.839			
8,500.83	8,480.57	8,535.36	8,481.57	30.41	31.39	170.14	-627.00	-117.00	835.33	774.96	60.37	13.837			
8,600.00	8,579.74	8,618.18	8,564.38	30.76	31.65	170.10	-627.16	-116.37	835.76	774.75	61.01	13.698			
8,700.00	8,679.74	8,680.10	8,625.95	31.11	31.85	169.71	-628.71	-110.27	839.98	778.45	61.54	13.650			
8,800.00	8,779.27	8,741.02	8,685.52	31.44	32.05	61.21	-631.83	-98.03	844.90	782.98	61.92	13.645			
8,900.00	8,875.84	8,800.00	8,741.60	31.73	32.24	60.87	-636.33	-80.41	846.10	783.95	62.15	13.614			
9,000.00	8,966.53	8,862.36	8,798.52	32.01	32.42	61.09	-642.60	-55.81	843.47	781.15	62.31	13.536			
9,100.00	9,048.57	8,923.09	8,850.99	32.28	32.59	61.89	-650.14	-26.23	837.07	774.65	62.42	13.411			
9,200.00	9,119.47	8,984.06	8,900.12	32.57	32.75	63.27	-659.04	8.71	827.14	764.58	62.56	13.221			
9,300.00	9,177.08	9,050.00	8,948.62	32.91	32.92	65.28	-670.06	51.95	814.12	751.21	62.91	12.942			
9,400.00	9,219.65	9,107.46	8,986.46	33.33	33.05	67.73	-680.74	93.82	798.52	735.15	63.37	12.601			
9,500.00	9,245.89	9,170.35	9,022.68	33.84	33.20	70.78	-693.43	143.60	781.20	716.99	64.21	12.167			
9,600.00	9,254.99	9,234.42	9,053.58	34.44	33.37	74.31	-707.28	197.95	763.11	697.72	65.39	11.670			
9,700.00	9,255.00	9,302.54	9,079.34	35.15	33.60	76.32	-722.85	259.02	749.68	682.84	66.83	11.217			
9,797.35	9,255.00	9,374.63	9,098.26	35.97	33.92	77.78	-740.02	326.38	745.53	677.14	68.38	10.902			
9,800.00	9,255.00	9,376.66	9,098.66	36.00	33.93	77.82	-740.51	328.30	745.53	677.10	68.43	10.895			
9,900.00	9,255.00	9,454.65	9,108.86	36.97	34.39	78.64	-759.59	403.17	749.88	679.77	70.12	10.695			
10,000.00	9,255.00	9,579.10	9,110.00	38.06	35.32	78.87	-788.34	524.22	760.56	688.40	72.17	10.539			

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 #205H
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:	#205H	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 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	9,255.00	9,743.28	9,110.00	39.24	36.85	79.03	-814.55	686.24	769.16	694.50	74.66	10.302	
10,200.00	9,255.00	9,908.86	9,110.00	40.50	38.66	79.13	-826.80	851.31	774.39	697.08	77.32	10.016	
10,300.00	9,255.00	10,031.86	9,110.00	41.85	40.16	79.14	-827.73	974.30	774.91	694.93	79.98	9.689	
10,400.00	9,255.00	10,131.86	9,110.00	43.28	41.48	79.14	-827.77	1,074.30	774.91	692.17	82.74	9.366	
10,500.00	9,255.00	10,231.86	9,110.00	44.78	42.89	79.14	-827.82	1,174.30	774.91	689.26	85.65	9.047	
10,600.00	9,255.00	10,331.86	9,110.00	46.35	44.37	79.14	-827.87	1,274.30	774.91	686.21	88.70	8.736	
10,700.00	9,255.00	10,431.86	9,110.00	47.98	45.92	79.14	-827.91	1,374.30	774.91	683.03	91.87	8.435	
10,800.00	9,255.00	10,531.86	9,110.00	49.66	47.53	79.14	-827.96	1,474.30	774.91	679.75	95.16	8.144	
10,900.00	9,255.00	10,631.86	9,110.00	51.40	49.20	79.14	-828.01	1,574.30	774.91	676.36	98.54	7.864	
11,000.00	9,255.00	10,731.86	9,110.00	53.17	50.93	79.14	-828.05	1,674.30	774.90	672.89	102.01	7.596	
11,100.00	9,255.00	10,831.86	9,110.00	54.99	52.69	79.14	-828.10	1,774.30	774.90	669.33	105.57	7.340	
11,200.00	9,255.00	10,931.86	9,110.00	56.84	54.50	79.14	-828.15	1,874.30	774.90	665.71	109.20	7.096	
11,300.00	9,255.00	11,031.86	9,110.00	58.72	56.34	79.14	-828.20	1,974.30	774.90	662.01	112.89	6.864	
11,400.00	9,255.00	11,131.86	9,110.00	60.64	58.22	79.14	-828.24	2,074.30	774.90	658.25	116.65	6.643	
11,500.00	9,255.00	11,231.86	9,110.00	62.58	60.13	79.14	-828.29	2,174.30	774.90	654.44	120.46	6.433	
11,600.00	9,255.00	11,331.86	9,110.00	64.54	62.06	79.14	-828.34	2,274.30	774.90	650.59	124.32	6.233	
11,700.00	9,255.00	11,431.86	9,110.00	66.53	64.02	79.14	-828.38	2,374.30	774.90	646.68	128.22	6.043	
11,800.00	9,255.00	11,531.86	9,110.00	68.54	66.00	79.14	-828.43	2,474.30	774.90	642.74	132.17	5.863	
11,900.00	9,255.00	11,631.86	9,110.00	70.56	68.00	79.14	-828.48	2,574.30	774.90	638.75	136.15	5.692	
12,000.00	9,255.00	11,731.86	9,110.00	72.60	70.03	79.14	-828.52	2,674.30	774.90	634.74	140.16	5.529	
12,100.00	9,255.00	11,831.86	9,110.00	74.66	72.07	79.14	-828.57	2,774.30	774.90	630.69	144.21	5.373	
12,200.00	9,255.00	11,931.86	9,110.00	76.74	74.12	79.14	-828.62	2,874.30	774.90	626.61	148.29	5.226	
12,300.00	9,255.00	12,031.86	9,110.00	78.82	76.19	79.14	-828.66	2,974.30	774.90	622.51	152.39	5.085	
12,400.00	9,255.00	12,131.86	9,110.00	80.92	78.27	79.14	-828.71	3,074.30	774.90	618.38	156.52	4.951	
12,500.00	9,255.00	12,231.86	9,110.00	83.03	80.37	79.14	-828.76	3,174.30	774.90	614.24	160.66	4.823	
12,600.00	9,255.00	12,331.86	9,110.00	85.15	82.47	79.14	-828.81	3,274.30	774.90	610.07	164.83	4.701	
12,700.00	9,255.00	12,431.86	9,110.00	87.28	84.59	79.14	-828.85	3,374.30	774.90	605.88	169.02	4.585	
12,800.00	9,255.00	12,531.86	9,110.00	89.41	86.72	79.14	-828.90	3,474.30	774.90	601.67	173.23	4.473	
12,900.00	9,255.00	12,631.86	9,110.00	91.56	88.86	79.14	-828.95	3,574.30	774.90	597.44	177.45	4.367	
13,000.00	9,255.00	12,731.86	9,110.00	93.71	91.00	79.14	-828.99	3,674.30	774.90	593.21	181.69	4.265	
13,100.00	9,255.00	12,831.86	9,110.00	95.88	93.15	79.14	-829.04	3,774.30	774.90	588.95	185.95	4.167	
13,200.00	9,255.00	12,931.86	9,110.00	98.04	95.31	79.14	-829.09	3,874.30	774.90	584.68	190.21	4.074	
13,300.00	9,255.00	13,031.86	9,110.00	100.22	97.48	79.14	-829.13	3,974.30	774.90	580.40	194.49	3.984	
13,400.00	9,255.00	13,131.86	9,110.00	102.40	99.65	79.14	-829.18	4,074.30	774.90	576.11	198.78	3.898	
13,500.00	9,255.00	13,231.86	9,110.00	104.58	101.83	79.14	-829.23	4,174.30	774.90	571.81	203.09	3.816	
13,600.00	9,255.00	13,331.86	9,110.00	106.77	104.02	79.14	-829.27	4,274.30	774.90	567.50	207.40	3.736	
13,700.00	9,255.00	13,431.86	9,110.00	108.97	106.20	79.14	-829.32	4,374.30	774.90	563.18	211.72	3.660	
13,800.00	9,255.00	13,531.86	9,110.00	111.17	108.40	79.14	-829.37	4,474.30	774.90	558.85	216.05	3.587	
13,900.00	9,255.00	13,631.86	9,110.00	113.38	110.60	79.14	-829.42	4,574.30	774.90	554.51	220.39	3.516	
14,000.00	9,255.00	13,731.86	9,110.00	115.58	112.80	79.14	-829.46	4,674.30	774.90	550.16	224.74	3.448	
14,100.00	9,255.00	13,831.86	9,110.00	117.80	115.01	79.14	-829.51	4,774.30	774.90	545.80	229.09	3.382	
14,200.00	9,255.00	13,931.86	9,110.00	120.01	117.22	79.14	-829.56	4,874.30	774.89	541.44	233.45	3.319	
14,300.00	9,255.00	14,031.86	9,110.00	122.23	119.44	79.14	-829.60	4,974.30	774.89	537.07	237.82	3.258	
14,400.00	9,255.00	14,131.86	9,110.00	124.46	121.66	79.14	-829.65	5,074.30	774.89	532.70	242.20	3.199	
14,500.00	9,255.00	14,231.86	9,110.00	126.68	123.88	79.14	-829.70	5,174.30	774.89	528.31	246.58	3.143	
14,600.00	9,255.00	14,331.86	9,110.00	128.91	126.10	79.14	-829.74	5,274.30	774.89	523.93	250.97	3.088	
14,700.00	9,255.00	14,431.86	9,110.00	131.14	128.33	79.14	-829.79	5,374.30	774.89	519.53	255.36	3.035	
14,800.00	9,255.00	14,531.86	9,110.00	133.38	130.56	79.14	-829.84	5,474.30	774.89	515.14	259.76	2.983	
14,900.00	9,255.00	14,631.86	9,110.00	135.61	132.80	79.14	-829.88	5,574.30	774.89	510.73	264.16	2.933	
15,000.00	9,255.00	14,731.86	9,110.00	137.85	135.03	79.14	-829.93	5,674.30	774.89	506.32	268.57	2.885	
15,100.00	9,255.00	14,831.86	9,110.00	140.09	137.27	79.14	-829.98	5,774.30	774.89	501.91	272.98	2.839	
15,200.00	9,255.00	14,931.86	9,110.00	142.34	139.51	79.14	-830.03	5,874.30	774.89	497.50	277.40	2.793	

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 #205H
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:	#205H	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		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	
15,300.00	9,255.00	15,031.86	9,110.00	144.58	141.76	79.14	-830.07	5,974.30	774.89	493.08	281.82	2.750	
15,400.00	9,255.00	15,131.86	9,110.00	146.83	144.00	79.14	-830.12	6,074.30	774.89	488.65	286.24	2.707	
15,500.00	9,255.00	15,231.86	9,110.00	149.08	146.25	79.14	-830.17	6,174.30	774.89	484.22	290.67	2.666	
15,600.00	9,255.00	15,331.86	9,110.00	151.33	148.50	79.14	-830.21	6,274.30	774.89	479.79	295.10	2.626	
15,700.00	9,255.00	15,431.86	9,110.00	153.58	150.75	79.14	-830.26	6,374.30	774.89	475.36	299.53	2.587	
15,800.00	9,255.00	15,531.86	9,110.00	155.84	153.00	79.14	-830.31	6,474.30	774.89	470.92	303.97	2.549	
15,900.00	9,255.00	15,631.86	9,110.00	158.09	155.26	79.14	-830.35	6,574.30	774.89	466.48	308.41	2.513	
16,000.00	9,255.00	15,731.86	9,110.00	160.35	157.51	79.14	-830.40	6,674.30	774.89	462.04	312.85	2.477	
16,100.00	9,255.00	15,831.86	9,110.00	162.61	159.77	79.14	-830.45	6,774.30	774.89	457.59	317.30	2.442	
16,200.00	9,255.00	15,931.86	9,110.00	164.87	162.03	79.14	-830.49	6,874.30	774.89	453.14	321.75	2.408	
16,300.00	9,255.00	16,031.86	9,110.00	167.13	164.29	79.14	-830.54	6,974.30	774.89	448.69	326.20	2.375	
16,400.00	9,255.00	16,131.86	9,110.00	169.40	166.55	79.14	-830.59	7,074.30	774.89	444.23	330.66	2.343	
16,500.00	9,255.00	16,231.86	9,110.00	171.66	168.81	79.14	-830.64	7,174.30	774.89	439.78	335.11	2.312	
16,600.00	9,255.00	16,331.86	9,110.00	173.93	171.08	79.14	-830.68	7,274.30	774.89	435.32	339.57	2.282	
16,700.00	9,255.00	16,431.86	9,110.00	176.19	173.34	79.14	-830.73	7,374.30	774.89	430.86	344.03	2.252	
16,800.00	9,255.00	16,531.86	9,110.00	178.46	175.61	79.14	-830.78	7,474.30	774.89	426.39	348.49	2.224	
16,900.00	9,255.00	16,631.86	9,110.00	180.73	177.88	79.14	-830.82	7,574.30	774.89	421.93	352.96	2.195	
17,000.00	9,255.00	16,731.86	9,110.00	183.00	180.14	79.14	-830.87	7,674.30	774.89	417.46	357.43	2.168	
17,100.00	9,255.00	16,831.86	9,110.00	185.27	182.41	79.14	-830.92	7,774.30	774.89	412.99	361.90	2.141	
17,200.00	9,255.00	16,931.86	9,110.00	187.54	184.68	79.14	-830.96	7,874.30	774.89	408.52	366.37	2.115	
17,300.00	9,255.00	17,031.86	9,110.00	189.81	186.96	79.14	-831.01	7,974.30	774.88	404.05	370.84	2.090	
17,400.00	9,255.00	17,131.86	9,110.00	192.09	189.23	79.14	-831.06	8,074.30	774.88	399.57	375.31	2.065	
17,500.00	9,255.00	17,231.86	9,110.00	194.36	191.50	79.14	-831.10	8,174.30	774.88	395.10	379.79	2.040	
17,600.00	9,255.00	17,331.86	9,110.00	196.64	193.78	79.14	-831.15	8,274.30	774.88	390.62	384.27	2.017	
17,700.00	9,255.00	17,431.86	9,110.00	198.91	196.05	79.14	-831.20	8,374.30	774.88	386.14	388.75	1.993	
17,800.00	9,255.00	17,531.86	9,110.00	201.19	198.33	79.14	-831.25	8,474.30	774.88	381.66	393.23	1.971	
17,900.00	9,255.00	17,631.86	9,110.00	203.47	200.60	79.14	-831.29	8,574.30	774.88	377.18	397.71	1.948	
18,000.00	9,255.00	17,731.86	9,110.00	205.74	202.88	79.14	-831.34	8,674.30	774.88	372.69	402.19	1.927	
18,100.00	9,255.00	17,831.86	9,110.00	208.02	205.16	79.14	-831.39	8,774.30	774.88	368.21	406.67	1.905	
18,200.00	9,255.00	17,931.86	9,110.00	210.30	207.44	79.14	-831.43	8,874.30	774.88	363.72	411.16	1.885	
18,300.00	9,255.00	18,031.86	9,110.00	212.58	209.72	79.14	-831.48	8,974.30	774.88	359.23	415.65	1.864	
18,400.00	9,255.00	18,131.86	9,110.00	214.86	212.00	79.14	-831.53	9,074.30	774.88	354.75	420.14	1.844	
18,500.00	9,255.00	18,231.86	9,110.00	217.14	214.28	79.14	-831.57	9,174.30	774.88	350.26	424.63	1.825	
18,600.00	9,255.00	18,331.86	9,110.00	219.43	216.56	79.14	-831.62	9,274.30	774.88	345.76	429.12	1.806	
18,700.00	9,255.00	18,431.86	9,110.00	221.71	218.84	79.14	-831.67	9,374.30	774.88	341.27	433.61	1.787	
18,800.00	9,255.00	18,531.86	9,110.00	223.99	221.12	79.14	-831.71	9,474.30	774.88	336.78	438.10	1.769	
18,900.00	9,255.00	18,631.86	9,110.00	226.28	223.40	79.14	-831.76	9,574.30	774.88	332.29	442.59	1.751	
19,000.00	9,255.00	18,731.86	9,110.00	228.56	225.69	79.14	-831.81	9,674.30	774.88	327.79	447.09	1.733	
19,100.00	9,255.00	18,831.86	9,110.00	230.84	227.97	79.14	-831.86	9,774.30	774.88	323.30	451.58	1.716	
19,200.00	9,255.00	18,931.86	9,110.00	233.13	230.25	79.14	-831.90	9,874.30	774.88	318.80	456.08	1.699	
19,300.00	9,255.00	19,031.86	9,110.00	235.41	232.54	79.14	-831.95	9,974.30	774.88	314.30	460.58	1.682	
19,400.00	9,255.00	19,131.86	9,110.00	236.87	234.82	79.14	-832.00	10,074.30	774.88	310.62	464.26	1.669	
19,407.34	9,255.00	19,139.20	9,110.00	236.98	234.99	79.14	-832.00	10,081.64	774.88	310.35	464.53	1.668 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 #205H
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:	#205H	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) - #135H - 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)	Separation Factor			
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	899.98	900.02	899.98	2.99	3.00	144.89	0.00	30.00	31.41	25.42	5.99 5.245			
1,000.00	999.84	999.84	999.84	3.35	3.35	149.66	0.00	30.00	35.82	29.12	6.70 5.346			
1,100.00	1,099.45	1,100.94	1,100.92	3.71	3.71	155.23	0.56	28.31	41.83	34.42	7.41 5.646			
1,200.00	1,198.72	1,202.25	1,202.09	4.07	4.07	160.69	2.24	23.22	47.77	39.66	8.11 5.893			
1,300.00	1,297.86	1,303.87	1,303.30	4.44	4.43	165.48	5.06	14.72	51.46	42.66	8.80 5.848			
1,400.00	1,397.01	1,403.81	1,402.67	4.82	4.79	169.81	8.41	4.58	53.60	44.09	9.51 5.635			
1,500.00	1,496.15	1,503.71	1,502.00	5.20	5.15	173.79	11.77	-5.55	56.02	45.79	10.23 5.477			
1,600.00	1,595.30	1,603.61	1,601.33	5.58	5.52	177.43	15.12	-15.68	58.69	47.74	10.95 5.360			
1,700.00	1,694.44	1,703.51	1,700.65	5.96	5.89	-179.27	18.48	-25.81	61.58	49.90	11.68 5.274			
1,800.00	1,793.59	1,803.41	1,799.98	6.35	6.26	-176.27	21.83	-35.95	64.65	52.24	12.41 5.211			
1,900.00	1,892.74	1,903.30	1,899.30	6.74	6.63	-173.55	25.18	-46.08	67.88	54.74	13.14 5.166			
2,000.00	1,991.88	2,003.20	1,998.63	7.13	7.01	-171.08	28.54	-56.21	71.25	57.37	13.88 5.134			
2,100.00	2,091.03	2,103.10	2,097.96	7.52	7.38	-168.83	31.89	-66.34	74.74	60.12	14.62 5.113			
2,200.00	2,190.17	2,203.00	2,197.28	7.91	7.76	-166.79	35.25	-76.47	78.34	62.98	15.36 5.099			
2,300.00	2,289.32	2,302.90	2,296.61	8.30	8.14	-164.93	38.60	-86.60	82.02	65.92	16.11 5.092			
2,400.00	2,388.46	2,402.80	2,395.94	8.69	8.51	-163.23	41.95	-96.74	85.79	68.93	16.86 5.089			
2,500.00	2,487.61	2,502.69	2,495.26	9.08	8.89	-161.68	45.31	-106.87	89.62	72.02	17.61 5.090			
2,600.00	2,586.75	2,602.59	2,594.59	9.48	9.27	-160.25	48.66	-117.00	93.52	75.16	18.36 5.093			
2,700.00	2,685.90	2,702.49	2,693.92	9.87	9.65	-158.94	52.02	-127.13	97.47	78.35	19.12 5.099			
2,800.00	2,785.04	2,802.39	2,793.24	10.27	10.04	-157.73	55.37	-137.26	101.46	81.59	19.87 5.106			
2,900.00	2,884.19	2,902.29	2,892.57	10.66	10.42	-156.62	58.72	-147.39	105.50	84.87	20.63 5.114			
3,000.00	2,983.34	3,002.18	2,991.90	11.06	10.80	-155.58	62.08	-157.52	109.57	88.18	21.39 5.123			
3,100.00	3,082.48	3,102.08	3,091.22	11.45	11.18	-154.62	65.43	-167.66	113.68	91.53	22.15 5.133			
3,200.00	3,181.63	3,201.98	3,190.55	11.85	11.56	-153.73	68.78	-177.79	117.81	94.90	22.91 5.143			
3,300.00	3,280.77	3,301.88	3,289.88	12.24	11.95	-152.90	72.14	-187.92	121.97	98.30	23.67 5.153			
3,400.00	3,380.14	3,401.81	3,389.23	12.63	12.33	-151.74	75.49	-198.05	124.48	100.05	24.44 5.094			
3,500.00	3,479.84	3,501.72	3,488.57	13.00	12.71	-149.81	78.85	-208.19	124.01	98.81	25.21 4.920			
3,600.00	3,579.75	3,601.48	3,587.76	13.36	13.09	-146.95	82.20	-218.30	120.74	94.76	25.98 4.647			
3,700.00	3,679.74	3,700.98	3,686.70	13.70	13.48	164.03	85.54	-228.40	115.10	88.34	26.77 4.300			
3,800.00	3,779.74	3,800.41	3,785.56	14.03	13.86	168.64	88.88	-238.48	109.42	81.86	27.56 3.970			
3,900.00	3,879.74	3,899.22	3,883.83	14.37	14.24	173.54	92.11	-248.24	104.64	76.29	28.35 3.691			
4,000.00	3,979.74	3,997.56	3,981.88	14.71	14.60	177.36	94.45	-255.31	101.68	72.58	29.10 3.494			
4,100.00	4,079.74	4,096.30	4,080.53	15.04	14.96	179.54	95.74	-259.20	100.27	70.45	29.82 3.363			
4,200.00	4,179.74	4,204.48	4,179.74	15.38	15.33	-180.00	96.00	-260.00	100.00	69.47	30.53 3.275			
4,300.00	4,279.74	4,304.48	4,279.74	15.72	15.67	-180.00	96.00	-260.00	100.00	68.78	31.22 3.203			
4,400.00	4,379.74	4,404.48	4,379.74	16.07	16.01	-180.00	96.00	-260.00	100.00	68.10	31.90 3.135			
4,500.00	4,479.74	4,504.48	4,479.74	16.41	16.35	-180.00	96.00	-260.00	100.00	67.41	32.59 3.069			
4,600.00	4,579.74	4,604.48	4,579.74	16.75	16.69	-180.00	96.00	-260.00	100.00	66.72	33.28 3.005			
4,700.00	4,679.74	4,704.48	4,679.74	17.09	17.03	-180.00	96.00	-260.00	100.00	66.04	33.96 2.944			
4,800.00	4,779.74	4,804.48	4,779.74	17.44	17.37	-180.00	96.00	-260.00	100.00	65.35	34.65 2.886			
4,900.00	4,879.74	4,904.48	4,879.74	17.78	17.72	-180.00	96.00	-260.00	100.00	64.65	35.35 2.829			
5,000.00	4,979.74	5,004.48	4,979.74	18.13	18.06	-180.00	96.00	-260.00	100.00	63.96	36.04 2.775			
5,100.00	5,079.74	5,104.48	5,079.74	18.47	18.41	-180.00	96.00	-260.00	100.00	63.27	36.73 2.723			

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 #205H
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:	#205H	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) - #135H - OH - Prelim A													Offset Site Error:
Survey Program: 0-MWD+HDGM													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	
5,200.00	5,179.74	5,204.48	5,179.74	18.82	18.75	-180.00	96.00	-260.00	100.00	62.58	37.42	2.672	
5,300.00	5,279.74	5,304.48	5,279.74	19.17	19.10	-180.00	96.00	-260.00	100.00	61.88	38.12	2.623	
5,400.00	5,379.74	5,404.48	5,379.74	19.51	19.44	-180.00	96.00	-260.00	100.00	61.19	38.81	2.576	
5,500.00	5,479.74	5,504.48	5,479.74	19.86	19.79	-180.00	96.00	-260.00	100.00	60.49	39.51	2.531	
5,600.00	5,579.74	5,604.48	5,579.74	20.21	20.14	-180.00	96.00	-260.00	100.00	59.79	40.21	2.487	
5,700.00	5,679.74	5,704.48	5,679.74	20.56	20.48	-180.00	96.00	-260.00	100.00	59.09	40.91	2.445	
5,800.00	5,779.74	5,804.48	5,779.74	20.91	20.83	-180.00	96.00	-260.00	100.00	58.40	41.60	2.404	
5,900.00	5,879.74	5,904.48	5,879.74	21.25	21.18	-180.00	96.00	-260.00	100.00	57.70	42.30	2.364	
6,000.00	5,979.74	6,004.48	5,979.74	21.60	21.53	-180.00	96.00	-260.00	100.00	57.00	43.00	2.325	
6,100.00	6,079.74	6,104.48	6,079.74	21.95	21.88	-180.00	96.00	-260.00	100.00	56.30	43.70	2.288	
6,200.00	6,179.74	6,204.48	6,179.74	22.30	22.23	-180.00	96.00	-260.00	100.00	55.60	44.40	2.252	
6,300.00	6,279.74	6,304.48	6,279.74	22.65	22.57	-180.00	96.00	-260.00	100.00	54.90	45.10	2.217	
6,400.00	6,379.74	6,404.48	6,379.74	23.00	22.92	-180.00	96.00	-260.00	100.00	54.19	45.81	2.183	
6,500.00	6,479.74	6,504.48	6,479.74	23.35	23.27	-180.00	96.00	-260.00	100.00	53.49	46.51	2.150	
6,600.00	6,579.74	6,604.48	6,579.74	23.70	23.62	-180.00	96.00	-260.00	100.00	52.79	47.21	2.118	
6,700.00	6,679.74	6,704.48	6,679.74	24.05	23.98	-180.00	96.00	-260.00	100.00	52.09	47.91	2.087	
6,800.00	6,779.74	6,804.48	6,779.74	24.41	24.33	-180.00	96.00	-260.00	100.00	51.38	48.62	2.057	
6,900.00	6,879.74	6,904.48	6,879.74	24.76	24.68	-180.00	96.00	-260.00	100.00	50.68	49.32	2.028	
7,000.00	6,979.74	7,004.48	6,979.74	25.11	25.03	-180.00	96.00	-260.00	100.00	49.97	50.03	1.999	
7,100.00	7,079.74	7,104.48	7,079.74	25.46	25.38	-180.00	96.00	-260.00	100.00	49.27	50.73	1.971	
7,200.00	7,179.74	7,204.48	7,179.74	25.81	25.73	-180.00	96.00	-260.00	100.00	48.57	51.43	1.944	
7,300.00	7,279.74	7,304.48	7,279.74	26.17	26.08	-180.00	96.00	-260.00	100.00	47.86	52.14	1.918	
7,400.00	7,379.74	7,404.48	7,379.74	26.52	26.43	-180.00	96.00	-260.00	100.00	47.15	52.85	1.892	
7,500.00	7,479.74	7,504.48	7,479.74	26.87	26.79	-180.00	96.00	-260.00	100.00	46.45	53.55	1.867	
7,600.00	7,579.74	7,604.48	7,579.74	27.22	27.14	-180.00	96.00	-260.00	100.00	45.74	54.26	1.843	
7,700.00	7,679.74	7,704.48	7,679.74	27.58	27.49	-180.00	96.00	-260.00	100.00	45.04	54.96	1.819	
7,800.00	7,779.74	7,804.48	7,779.74	27.93	27.84	-180.00	96.00	-260.00	100.00	44.33	55.67	1.796	
7,900.00	7,879.74	7,904.48	7,879.74	28.28	28.20	-180.00	96.00	-260.00	100.00	43.62	56.38	1.774	
8,000.00	7,979.74	8,004.48	7,979.74	28.63	28.55	-180.00	96.00	-260.00	100.00	42.92	57.08	1.752	
8,100.00	8,079.74	8,104.48	8,079.74	28.99	28.90	-180.00	96.00	-260.00	100.00	42.21	57.79	1.730	
8,200.00	8,179.74	8,204.48	8,179.74	29.34	29.26	-180.00	96.00	-260.00	100.00	41.50	58.50	1.709	
8,300.00	8,279.74	8,304.48	8,279.74	29.70	29.61	-180.00	96.00	-260.00	100.00	40.79	59.21	1.689	
8,400.00	8,379.74	8,404.48	8,379.74	30.05	29.96	-180.00	96.00	-260.00	100.00	40.08	59.92	1.669	
8,500.00	8,479.74	8,504.48	8,479.74	30.40	30.32	-180.00	96.00	-260.00	100.00	39.38	60.62	1.650	
8,503.15	8,482.89	8,501.33	8,482.89	30.41	30.30	-180.00	96.00	-260.00	100.00	39.38	60.62	1.650	
8,600.00	8,579.74	8,593.94	8,578.13	30.76	30.62	179.18	95.69	-258.56	100.33	39.07	61.26	1.638	
8,700.00	8,679.74	8,687.92	8,670.90	31.11	30.92	171.47	92.68	-244.50	104.85	43.25	61.60	1.702	
8,800.00	8,779.27	8,777.52	8,756.03	31.44	31.18	53.19	86.88	-217.47	114.47	53.35	61.12	1.873	
8,900.00	8,875.84	8,864.42	8,833.51	31.73	31.42	44.66	78.67	-179.17	125.03	65.43	59.59	2.098	
9,000.00	8,966.53	8,949.09	8,902.47	32.01	31.66	37.92	68.40	-131.26	135.21	78.15	57.07	2.369	
9,100.00	9,048.57	9,031.97	8,962.26	32.28	31.90	32.52	56.39	-75.25	144.09	90.35	53.74	2.681	
9,200.00	9,119.47	9,113.43	9,012.39	32.57	32.17	28.13	42.95	-12.55	150.98	101.10	49.88	3.027	
9,300.00	9,177.08	9,193.85	9,052.46	32.91	32.48	24.48	28.35	55.55	155.44	109.59	45.85	3.390	
9,400.00	9,219.65	9,273.57	9,082.19	33.33	32.85	21.38	12.86	127.81	157.16	115.11	42.05	3.737	
9,500.00	9,245.89	9,352.90	9,101.31	33.84	33.27	18.68	-3.26	203.02	155.95	116.97	38.99	4.000	
9,600.00	9,254.99	9,432.17	9,109.63	34.44	33.76	16.25	-19.77	280.04	151.71	114.54	37.17	4.082	
9,700.00	9,255.00	9,528.05	9,110.00	35.15	34.44	13.35	-38.42	374.08	149.06	112.67	36.39	4.096	
9,800.00	9,255.00	9,629.30	9,110.00	36.00	35.29	10.16	-53.08	474.25	147.33	111.52	35.81	4.114	
9,900.00	9,255.00	9,730.09	9,110.00	36.97	36.27	6.89	-62.37	574.60	146.06	110.55	35.51	4.113	
10,000.00	9,255.00	9,830.42	9,110.00	38.06	37.34	3.56	-66.36	674.84	145.28	109.70	35.58	4.083	
10,100.00	9,255.00	9,930.27	9,110.00	39.24	38.53	0.79	-66.57	774.69	145.01	108.92	36.10	4.017	
10,162.84	9,255.00	10,006.92	9,110.00	40.03	39.49	0.00	-66.60	837.50	145.00	108.41	36.59	3.962	

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 #205H
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:	#205H	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) - #135H - 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	9,255.00	10,030.24	9,110.00	40.50	39.80	-0.01	-66.62	874.66	145.00	108.19	36.81	3.939	
10,300.00	9,255.00	10,130.24	9,110.00	41.85	41.17	-0.01	-66.66	974.66	145.00	107.45	37.55	3.861	
10,400.00	9,255.00	10,230.24	9,110.00	43.28	42.62	-0.01	-66.71	1,074.66	145.00	106.65	38.35	3.781	
10,500.00	9,255.00	10,330.24	9,110.00	44.78	44.14	-0.01	-66.76	1,174.66	145.00	105.81	39.19	3.700	
10,600.00	9,255.00	10,430.24	9,110.00	46.35	45.73	-0.01	-66.81	1,274.66	145.00	104.93	40.07	3.618	
10,700.00	9,255.00	10,530.24	9,110.00	47.98	47.38	-0.01	-66.85	1,374.66	145.00	104.00	41.00	3.537	
10,800.00	9,255.00	10,630.24	9,110.00	49.66	49.08	-0.01	-66.90	1,474.66	145.00	103.04	41.96	3.455	
10,900.00	9,255.00	10,730.24	9,110.00	51.40	50.83	-0.01	-66.95	1,574.66	145.00	102.04	42.96	3.375	
11,000.00	9,255.00	10,830.24	9,110.00	53.17	52.62	-0.01	-67.00	1,674.66	145.00	101.00	44.00	3.296	
11,100.00	9,255.00	10,930.24	9,110.00	54.99	54.45	-0.01	-67.05	1,774.66	145.00	99.94	45.06	3.218	
11,200.00	9,255.00	11,030.24	9,110.00	56.84	56.32	-0.01	-67.09	1,874.66	145.00	98.85	46.15	3.142	
11,300.00	9,255.00	11,130.24	9,110.00	58.72	58.21	-0.01	-67.14	1,974.66	145.00	97.73	47.27	3.067	
11,400.00	9,255.00	11,230.24	9,110.00	60.64	60.14	-0.01	-67.19	2,074.66	145.00	96.58	48.42	2.995	
11,500.00	9,255.00	11,330.24	9,110.00	62.58	62.09	-0.01	-67.24	2,174.66	145.00	95.41	49.59	2.924	
11,600.00	9,255.00	11,430.24	9,110.00	64.54	64.07	-0.01	-67.28	2,274.66	145.00	94.22	50.78	2.856	
11,700.00	9,255.00	11,530.24	9,110.00	66.53	66.07	-0.01	-67.33	2,374.66	145.00	93.01	51.99	2.789	
11,800.00	9,255.00	11,630.24	9,110.00	68.54	68.09	-0.01	-67.38	2,474.66	145.00	91.79	53.21	2.725	
11,900.00	9,255.00	11,730.24	9,110.00	70.56	70.12	-0.01	-67.43	2,574.66	145.00	90.54	54.46	2.662	
12,000.00	9,255.00	11,830.24	9,110.00	72.60	72.18	-0.01	-67.47	2,674.66	145.00	89.28	55.72	2.602	
12,100.00	9,255.00	11,930.24	9,110.00	74.66	74.24	-0.01	-67.52	2,774.66	145.00	88.00	57.00	2.544	
12,200.00	9,255.00	12,030.24	9,110.00	76.74	76.32	-0.01	-67.57	2,874.66	145.00	86.71	58.29	2.487	
12,300.00	9,255.00	12,130.24	9,110.00	78.82	78.42	-0.01	-67.62	2,974.66	145.00	85.40	59.60	2.433	
12,400.00	9,255.00	12,230.24	9,110.00	80.92	80.52	-0.01	-67.66	3,074.66	145.00	84.08	60.92	2.380	
12,500.00	9,255.00	12,330.24	9,110.00	83.03	82.64	-0.01	-67.71	3,174.66	145.00	82.75	62.25	2.329	
12,600.00	9,255.00	12,430.24	9,110.00	85.15	84.77	-0.01	-67.76	3,274.66	145.00	81.41	63.59	2.280	
12,700.00	9,255.00	12,530.24	9,110.00	87.28	86.90	-0.01	-67.81	3,374.66	145.00	80.06	64.94	2.233	
12,800.00	9,255.00	12,630.24	9,110.00	89.41	89.05	-0.01	-67.85	3,474.66	145.00	78.70	66.30	2.187	
12,900.00	9,255.00	12,730.24	9,110.00	91.56	91.20	-0.01	-67.90	3,574.66	145.00	77.33	67.67	2.143	
13,000.00	9,255.00	12,830.24	9,110.00	93.71	93.36	-0.01	-67.95	3,674.66	145.00	75.95	69.05	2.100	
13,100.00	9,255.00	12,930.24	9,110.00	95.88	95.53	-0.01	-68.00	3,774.66	145.00	74.57	70.43	2.059	
13,200.00	9,255.00	13,030.24	9,110.00	98.04	97.70	-0.01	-68.04	3,874.66	145.00	73.17	71.83	2.019	
13,300.00	9,255.00	13,130.24	9,110.00	100.22	99.88	-0.01	-68.09	3,974.66	145.00	71.77	73.23	1.980	
13,400.00	9,255.00	13,230.24	9,110.00	102.40	102.07	-0.01	-68.14	4,074.66	145.00	70.37	74.63	1.943	
13,500.00	9,255.00	13,330.24	9,110.00	104.58	104.26	-0.01	-68.19	4,174.66	145.00	68.95	76.05	1.907	
13,600.00	9,255.00	13,430.24	9,110.00	106.77	106.45	-0.01	-68.24	4,274.66	145.00	67.53	77.47	1.872	
13,700.00	9,255.00	13,530.24	9,110.00	108.97	108.65	-0.01	-68.28	4,374.66	145.00	66.11	78.89	1.838	
13,800.00	9,255.00	13,630.24	9,110.00	111.17	110.86	-0.01	-68.33	4,474.66	145.00	64.68	80.32	1.805	
13,900.00	9,255.00	13,730.24	9,110.00	113.38	113.07	-0.01	-68.38	4,574.66	145.00	63.24	81.76	1.774	
14,000.00	9,255.00	13,830.24	9,110.00	115.58	115.28	-0.01	-68.43	4,674.66	145.00	61.80	83.20	1.743	
14,100.00	9,255.00	13,930.24	9,110.00	117.80	117.50	-0.01	-68.47	4,774.66	145.00	60.35	84.65	1.713	
14,200.00	9,255.00	14,030.24	9,110.00	120.01	119.72	-0.01	-68.52	4,874.66	145.00	58.91	86.09	1.684	
14,300.00	9,255.00	14,130.24	9,110.00	122.23	121.94	-0.01	-68.57	4,974.66	145.00	57.45	87.55	1.656	
14,400.00	9,255.00	14,230.24	9,110.00	124.46	124.17	-0.01	-68.62	5,074.66	145.00	55.99	89.01	1.629	
14,500.00	9,255.00	14,330.24	9,110.00	126.68	126.40	-0.01	-68.66	5,174.66	145.00	54.53	90.47	1.603	
14,600.00	9,255.00	14,430.24	9,110.00	128.91	128.63	-0.01	-68.71	5,274.66	145.00	53.07	91.93	1.577	
14,700.00	9,255.00	14,530.24	9,110.00	131.14	130.86	-0.01	-68.76	5,374.66	145.00	51.60	93.40	1.552	
14,800.00	9,255.00	14,630.24	9,110.00	133.38	133.10	-0.01	-68.81	5,474.66	145.00	50.13	94.87	1.528	
14,900.00	9,255.00	14,730.24	9,110.00	135.61	135.34	-0.01	-68.85	5,574.66	145.00	48.65	96.35	1.505	
15,000.00	9,255.00	14,830.24	9,110.00	137.85	137.58	-0.01	-68.90	5,674.66	145.00	47.17	97.83	1.482 Level 3	
15,100.00	9,255.00	14,930.24	9,110.00	140.09	139.83	-0.01	-68.95	5,774.66	145.00	45.69	99.31	1.460 Level 3	
15,200.00	9,255.00	15,030.24	9,110.00	142.34	142.07	-0.01	-69.00	5,874.66	145.00	44.21	100.79	1.439 Level 3	
15,300.00	9,255.00	15,130.24	9,110.00	144.58	144.32	-0.01	-69.04	5,974.66	145.00	42.72	102.28	1.418 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 #205H
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:	#205H	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) - #135H - 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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	9,255.00	15,230.24	9,110.00	146.83	146.57	-0.01	-69.09	6,074.66	145.00	41.24	103.76	1.397	Level 3
15,500.00	9,255.00	15,330.24	9,110.00	149.08	148.82	-0.01	-69.14	6,174.66	145.00	39.75	105.25	1.378	Level 3
15,600.00	9,255.00	15,430.24	9,110.00	151.33	151.08	-0.01	-69.19	6,274.66	145.00	38.25	106.75	1.358	Level 3
15,700.00	9,255.00	15,530.24	9,110.00	153.58	153.33	-0.01	-69.24	6,374.66	145.00	36.76	108.24	1.340	Level 3
15,800.00	9,255.00	15,630.24	9,110.00	155.84	155.59	-0.01	-69.28	6,474.66	145.00	35.26	109.74	1.321	Level 3
15,900.00	9,255.00	15,730.24	9,110.00	158.09	157.85	-0.01	-69.33	6,574.66	145.00	33.76	111.24	1.304	Level 3
16,000.00	9,255.00	15,830.24	9,110.00	160.35	160.11	0.00	-69.38	6,674.66	145.00	32.26	112.74	1.286	Level 3
16,100.00	9,255.00	15,930.24	9,110.00	162.61	162.37	0.00	-69.43	6,774.66	145.00	30.76	114.24	1.269	Level 3
16,200.00	9,255.00	16,030.24	9,110.00	164.87	164.63	0.00	-69.47	6,874.66	145.00	29.25	115.75	1.253	Level 3
16,300.00	9,255.00	16,130.24	9,110.00	167.13	166.89	0.00	-69.52	6,974.66	145.00	27.75	117.25	1.237	Level 2
16,400.00	9,255.00	16,230.24	9,110.00	169.40	169.16	0.00	-69.57	7,074.66	145.00	26.24	118.76	1.221	Level 2
16,500.00	9,255.00	16,330.24	9,110.00	171.66	171.43	0.00	-69.62	7,174.66	145.00	24.73	120.27	1.206	Level 2
16,600.00	9,255.00	16,430.24	9,110.00	173.93	173.69	0.00	-69.66	7,274.66	145.00	23.22	121.78	1.191	Level 2
16,700.00	9,255.00	16,530.24	9,110.00	176.19	175.96	0.00	-69.71	7,374.66	145.00	21.71	123.29	1.176	Level 2
16,800.00	9,255.00	16,630.24	9,110.00	178.46	178.23	0.00	-69.76	7,474.66	145.00	20.19	124.81	1.162	Level 2
16,900.00	9,255.00	16,730.24	9,110.00	180.73	180.50	0.00	-69.81	7,574.66	145.00	18.68	126.32	1.148	Level 2
17,000.00	9,255.00	16,830.24	9,110.00	183.00	182.77	0.00	-69.85	7,674.66	145.00	17.16	127.84	1.134	Level 2
17,100.00	9,255.00	16,930.24	9,110.00	185.27	185.05	0.00	-69.90	7,774.66	145.00	15.64	129.36	1.121	Level 2
17,200.00	9,255.00	17,030.24	9,110.00	187.54	187.32	0.00	-69.95	7,874.66	145.00	14.12	130.88	1.108	Level 2
17,300.00	9,255.00	17,130.24	9,110.00	189.81	189.59	0.00	-70.00	7,974.66	145.00	12.60	132.40	1.095	Level 2
17,400.00	9,255.00	17,230.24	9,110.00	192.09	191.87	0.00	-70.04	8,074.66	145.00	11.08	133.92	1.083	Level 2
17,500.00	9,255.00	17,330.24	9,110.00	194.36	194.14	0.00	-70.09	8,174.66	145.00	9.56	135.44	1.071	Level 2
17,600.00	9,255.00	17,430.24	9,110.00	196.64	196.42	0.00	-70.14	8,274.66	145.00	8.03	136.97	1.059	Level 2
17,700.00	9,255.00	17,530.24	9,110.00	198.91	198.70	0.00	-70.19	8,374.66	145.00	6.51	138.49	1.047	Level 2
17,800.00	9,255.00	17,630.24	9,110.00	201.19	200.98	0.00	-70.23	8,474.66	145.00	4.98	140.02	1.036	Level 2
17,900.00	9,255.00	17,730.24	9,110.00	203.47	203.25	0.00	-70.28	8,574.66	145.00	3.46	141.54	1.024	Level 2
18,000.00	9,255.00	17,830.24	9,110.00	205.74	205.53	0.00	-70.33	8,674.66	145.00	1.93	143.07	1.013	Level 2
18,100.00	9,255.00	17,930.24	9,110.00	208.02	207.81	0.00	-70.38	8,774.66	145.00	0.40	144.60	1.003	Level 2
18,200.00	9,255.00	18,030.24	9,110.00	210.30	210.09	0.00	-70.43	8,874.66	145.00	-1.13	146.13	0.992	Level 1
18,300.00	9,255.00	18,130.24	9,110.00	212.58	212.38	0.00	-70.47	8,974.66	145.00	-2.66	147.66	0.982	Level 1
18,400.00	9,255.00	18,230.24	9,110.00	214.86	214.66	0.00	-70.52	9,074.66	145.00	-4.19	149.19	0.972	Level 1
18,500.00	9,255.00	18,330.24	9,110.00	217.14	216.94	0.00	-70.57	9,174.66	145.00	-5.72	150.72	0.962	Level 1
18,600.00	9,255.00	18,430.24	9,110.00	219.43	219.22	0.00	-70.62	9,274.66	145.00	-7.25	152.25	0.952	Level 1
18,700.00	9,255.00	18,530.24	9,110.00	221.71	221.51	0.00	-70.66	9,374.66	145.00	-8.79	153.79	0.943	Level 1
18,800.00	9,255.00	18,630.24	9,110.00	223.99	223.79	0.00	-70.71	9,474.66	145.00	-10.32	155.32	0.934	Level 1
18,900.00	9,255.00	18,730.24	9,110.00	226.28	226.07	0.00	-70.76	9,574.66	145.00	-11.85	156.85	0.924	Level 1
19,000.00	9,255.00	18,830.24	9,110.00	228.56	228.36	0.00	-70.81	9,674.66	145.00	-13.39	158.39	0.915	Level 1
19,100.00	9,255.00	18,930.24	9,110.00	230.84	230.64	0.00	-70.85	9,774.66	145.00	-14.93	159.93	0.907	Level 1
19,200.00	9,255.00	19,030.24	9,110.00	233.13	232.93	0.00	-70.90	9,874.66	145.00	-16.46	161.46	0.898	Level 1
19,300.00	9,255.00	19,130.24	9,110.00	235.41	235.22	0.00	-70.95	9,974.66	145.00	-18.00	163.00	0.890	Level 1
19,400.00	9,255.00	19,230.24	9,110.00	236.87	237.25	0.00	-71.00	10,074.66	145.00	-19.04	164.04	0.884	Level 1
19,407.34	9,255.00	19,237.58	9,110.00	236.98	237.36	0.00	-71.00	10,082.00	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	Local Co-ordinate Reference:	Well #205H
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:	#205H	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:
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)	Separation Factor
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
200.00	200.00	200.00	200.00	0.49	0.49	45.00	30.00	30.00	42.43	41.45	0.97
300.00	300.00	300.00	300.00	0.85	0.85	45.00	30.00	30.00	42.43	40.74	1.69
400.00	400.00	400.00	400.00	1.20	1.20	45.00	30.00	30.00	42.43	40.02	2.41
500.00	500.00	500.00	500.00	1.56	1.56	45.00	30.00	30.00	42.43	39.30	3.12
600.00	600.00	600.00	600.00	1.92	1.92	45.00	30.00	30.00	42.43	38.59	3.84
700.00	700.00	700.00	700.00	2.28	2.28	45.00	30.00	30.00	42.43	37.87	4.56
800.00	800.00	800.00	800.00	2.64	2.64	45.00	30.00	30.00	42.43	37.15	5.27
900.00	899.98	900.02	899.98	2.99	3.00	100.30	30.00	30.00	42.70	36.72	5.99
1,000.00	999.84	999.84	999.84	3.35	3.35	107.00	30.00	30.00	43.94	37.24	6.70
1,100.00	1,099.45	1,100.02	1,100.00	3.71	3.71	115.15	31.18	28.71	46.62	39.21	7.41
1,200.00	1,198.72	1,200.46	1,200.29	4.07	4.07	122.00	34.73	24.83	50.36	42.24	8.13
1,300.00	1,297.86	1,300.57	1,300.09	4.44	4.43	126.29	40.07	19.01	53.92	45.08	8.84
1,400.00	1,397.01	1,400.43	1,399.63	4.82	4.78	129.89	45.49	13.08	57.65	48.09	9.56
1,500.00	1,496.15	1,500.30	1,499.18	5.20	5.15	133.05	50.92	7.15	61.58	51.29	10.29
1,600.00	1,595.30	1,600.17	1,598.72	5.58	5.51	135.82	56.35	1.22	65.67	54.66	11.01
1,700.00	1,694.44	1,700.04	1,698.27	5.96	5.87	138.26	61.77	-4.71	69.90	58.16	11.74
1,800.00	1,793.59	1,800.09	1,797.81	6.35	6.24	140.42	67.20	-10.63	74.24	61.77	12.46
1,900.00	1,892.74	1,900.22	1,897.36	6.74	6.61	142.33	72.63	-16.56	78.67	65.48	13.19
2,000.00	1,991.88	2,000.35	1,996.91	7.13	6.97	144.05	78.05	-22.49	83.18	69.26	13.92
2,100.00	2,091.03	2,100.48	2,096.45	7.52	7.34	145.58	83.48	-28.42	87.76	73.11	14.65
2,200.00	2,190.17	2,200.61	2,196.00	7.91	7.71	146.96	88.91	-34.35	92.40	77.02	15.37
2,300.00	2,289.32	2,300.74	2,295.54	8.30	8.08	148.21	94.34	-40.27	97.08	80.98	16.10
2,400.00	2,388.46	2,400.88	2,395.09	8.69	8.45	149.34	99.76	-46.20	101.81	84.97	16.83
2,500.00	2,487.61	2,501.01	2,494.63	9.08	8.82	150.38	105.19	-52.13	106.57	89.00	17.56
2,600.00	2,586.75	2,598.86	2,594.18	9.48	9.18	151.32	110.62	-58.06	111.36	93.08	18.28
2,700.00	2,685.90	2,701.27	2,693.72	9.87	9.56	152.19	116.04	-63.99	116.18	97.16	19.02
2,800.00	2,785.04	2,801.40	2,793.27	10.27	9.93	152.98	121.47	-69.91	121.03	101.27	19.75
2,900.00	2,884.19	2,901.53	2,892.81	10.66	10.30	153.72	126.90	-75.84	125.89	105.41	20.48
3,000.00	2,983.34	3,001.66	2,992.36	11.06	10.68	154.40	132.32	-81.77	130.78	109.57	21.21
3,100.00	3,082.48	3,098.21	3,091.90	11.45	11.03	155.03	137.75	-87.70	135.68	113.75	21.93
3,200.00	3,181.63	3,198.08	3,191.45	11.85	11.40	155.62	143.18	-93.63	140.60	117.94	22.66
3,300.00	3,280.77	3,297.94	3,290.99	12.24	11.78	156.17	148.61	-99.55	145.53	122.14	23.39
3,400.00	3,380.14	3,402.11	3,390.61	12.63	12.16	156.41	154.04	-105.49	148.73	124.59	24.13
3,500.00	3,479.84	3,502.12	3,490.28	13.00	12.53	156.09	159.47	-111.42	148.73	123.87	24.86
3,600.00	3,579.75	3,602.20	3,589.87	13.36	12.91	155.18	164.90	-117.35	145.57	119.98	25.59
3,700.00	3,679.74	3,702.47	3,689.28	13.70	13.28	100.64	170.32	-123.27	139.45	113.13	26.32
3,800.00	3,779.74	3,797.21	3,788.64	14.03	13.63	98.81	175.74	-129.19	132.67	105.65	27.02
3,900.00	3,879.74	3,896.89	3,887.99	14.37	14.00	96.78	181.15	-135.10	126.04	98.29	27.75
4,000.00	3,979.74	4,003.44	3,987.34	14.71	14.40	94.53	186.57	-141.02	119.59	91.08	28.51
4,100.00	4,079.74	4,103.76	4,086.69	15.04	14.77	92.03	191.99	-146.94	113.35	84.10	29.25
4,200.00	4,179.74	4,204.09	4,186.05	15.38	15.15	89.25	197.40	-152.85	107.34	77.34	30.00
4,300.00	4,279.74	4,304.41	4,285.40	15.72	15.52	86.15	202.82	-158.77	101.62	70.87	30.75
4,400.00	4,379.74	4,404.74	4,384.75	16.07	15.89	82.69	208.23	-164.69	96.23	64.72	31.51
4,500.00	4,479.74	4,505.06	4,484.10	16.41	16.27	78.83	213.65	-170.60	91.23	58.95	32.27
4,600.00	4,579.74	4,605.38	4,583.46	16.75	16.64	74.55	219.07	-176.52	86.69	53.64	33.05
4,700.00	4,679.74	4,705.71	4,682.81	17.09	17.01	69.83	224.48	-182.44	82.69	48.86	33.83
4,800.00	4,779.74	4,806.03	4,782.16	17.44	17.39	64.68	229.90	-188.35	79.30	44.69	34.61
4,900.00	4,879.74	4,906.36	4,881.51	17.78	17.76	59.11	235.32	-194.27	76.61	41.22	35.39
5,000.00	4,979.74	5,006.68	4,980.87	18.13	18.14	53.21	240.73	-200.19	74.70	38.53	36.17
5,100.00	5,079.74	5,107.01	5,080.22	18.47	18.51	47.06	246.15	-206.10	73.62	36.69	36.94

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 #205H
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:	#205H	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													0.00 usft
Reference	Offset	Semi-Major Axis		Distance		Minimum Separation		Warning		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
5,173.43	5,153.17	5,166.19	5,153.17	18.73	18.73	42.47	250.13	-210.45	73.38	35.95	37.44	1.960	
5,200.00	5,179.74	5,207.33	5,179.57	18.82	18.88	40.81	251.57	-212.02	73.42	35.73	37.69	1.948	
5,300.00	5,279.74	5,307.65	5,278.92	19.17	19.26	34.60	256.98	-217.94	74.09	35.67	38.42	1.928	
5,400.00	5,379.74	5,407.98	5,378.28	19.51	19.63	28.56	262.40	-223.85	75.62	36.48	39.14	1.932	
5,500.00	5,479.74	5,508.30	5,477.63	19.86	20.01	22.83	267.82	-229.77	77.95	38.11	39.84	1.957	
5,600.00	5,579.74	5,608.63	5,576.98	20.21	20.38	17.48	273.23	-235.68	81.02	40.49	40.53	1.999	
5,700.00	5,679.74	5,691.05	5,676.33	20.56	20.69	12.55	278.65	-241.60	84.74	43.60	41.14	2.060	
5,800.00	5,779.74	5,790.84	5,775.80	20.91	21.06	8.07	284.07	-247.52	89.03	47.22	41.81	2.129	
5,900.00	5,879.74	5,892.56	5,877.32	21.25	21.43	4.92	288.23	-252.06	92.60	50.10	42.50	2.179	
6,000.00	5,979.74	5,994.59	5,979.32	21.60	21.79	3.69	289.95	-253.94	94.15	50.96	43.18	2.180	
6,100.00	6,079.74	6,104.99	6,079.74	21.95	22.18	3.65	290.00	-254.00	94.19	50.28	43.91	2.145	
6,200.00	6,179.74	6,204.99	6,179.74	22.30	22.52	3.65	290.00	-254.00	94.19	49.58	44.61	2.111	
6,300.00	6,279.74	6,304.99	6,279.74	22.65	22.87	3.65	290.00	-254.00	94.19	48.88	45.31	2.079	
6,400.00	6,379.74	6,404.99	6,379.74	23.00	23.21	3.65	290.00	-254.00	94.19	48.18	46.01	2.047	
6,500.00	6,479.74	6,504.99	6,479.74	23.35	23.56	3.65	290.00	-254.00	94.19	47.48	46.71	2.017	
6,600.00	6,579.74	6,604.99	6,579.74	23.70	23.91	3.65	290.00	-254.00	94.19	46.78	47.41	1.987	
6,700.00	6,679.74	6,704.99	6,679.74	24.05	24.25	3.65	290.00	-254.00	94.19	46.08	48.11	1.958	
6,800.00	6,779.74	6,804.99	6,779.74	24.41	24.60	3.65	290.00	-254.00	94.19	45.38	48.81	1.930	
6,900.00	6,879.74	6,904.99	6,879.74	24.76	24.95	3.65	290.00	-254.00	94.19	44.68	49.51	1.902	
7,000.00	6,979.74	7,004.99	6,979.74	25.11	25.30	3.65	290.00	-254.00	94.19	43.97	50.22	1.876	
7,100.00	7,079.74	7,104.99	7,079.74	25.46	25.64	3.65	290.00	-254.00	94.19	43.27	50.92	1.850	
7,200.00	7,179.74	7,204.99	7,179.74	25.81	25.99	3.65	290.00	-254.00	94.19	42.57	51.62	1.825	
7,300.00	7,279.74	7,304.99	7,279.74	26.17	26.34	3.65	290.00	-254.00	94.19	41.86	52.33	1.800	
7,400.00	7,379.74	7,404.99	7,379.74	26.52	26.69	3.65	290.00	-254.00	94.19	41.16	53.03	1.776	
7,500.00	7,479.74	7,504.99	7,479.74	26.87	27.04	3.65	290.00	-254.00	94.19	40.46	53.73	1.753	
7,600.00	7,579.74	7,604.99	7,579.74	27.22	27.39	3.65	290.00	-254.00	94.19	39.75	54.44	1.730	
7,700.00	7,679.74	7,704.99	7,679.74	27.58	27.74	3.65	290.00	-254.00	94.19	39.05	55.14	1.708	
7,800.00	7,779.74	7,804.99	7,779.74	27.93	28.09	3.65	290.00	-254.00	94.19	38.34	55.85	1.687	
7,900.00	7,879.74	7,904.99	7,879.74	28.28	28.44	3.65	290.00	-254.00	94.19	37.64	56.56	1.665	
8,000.00	7,979.74	8,004.99	7,979.74	28.63	28.79	3.65	290.00	-254.00	94.19	36.93	57.26	1.645	
8,100.00	8,079.74	8,104.99	8,079.74	28.99	29.14	3.65	290.00	-254.00	94.19	36.22	57.97	1.625	
8,200.00	8,179.74	8,204.99	8,179.74	29.34	29.49	3.65	290.00	-254.00	94.19	35.52	58.67	1.605	
8,300.00	8,279.74	8,304.99	8,279.74	29.70	29.84	3.65	290.00	-254.00	94.19	34.81	59.38	1.586	
8,400.00	8,379.74	8,404.99	8,379.74	30.05	30.19	3.65	290.00	-254.00	94.19	34.10	60.09	1.568	
8,500.00	8,479.74	8,504.99	8,479.74	30.40	30.54	3.65	290.00	-254.00	94.19	33.40	60.79	1.549	
8,600.00	8,579.74	8,604.99	8,579.74	30.76	30.90	3.65	290.00	-254.00	94.19	32.69	61.50	1.532	
8,700.00	8,679.74	8,704.99	8,679.74	31.11	31.25	3.65	290.00	-254.00	94.19	31.98	62.21	1.514 ES	
8,800.00	8,779.27	8,805.46	8,779.27	31.44	31.60	-108.49	290.00	-254.00	96.53	33.69	62.84	1.536	
8,900.00	8,875.84	8,891.11	8,875.84	31.73	31.90	-120.17	290.00	-254.00	107.45	44.15	63.30	1.698	
9,000.00	8,966.53	8,980.59	8,965.16	32.01	32.21	-131.07	292.20	-250.56	134.54	70.79	63.75	2.110	
9,100.00	9,048.57	9,068.01	9,050.83	32.28	32.49	-135.74	301.35	-236.26	178.01	113.84	64.17	2.774	
9,200.00	9,119.47	9,152.65	9,130.38	32.57	32.75	-135.84	316.79	-212.10	233.39	168.87	64.52	3.617	
9,300.00	9,177.08	9,233.23	9,201.42	32.91	32.96	-132.89	337.21	-180.18	298.07	233.28	64.78	4.601	
9,400.00	9,219.65	9,309.20	9,262.91	33.33	33.14	-127.64	361.19	-142.68	370.18	305.22	64.96	5.698	
9,500.00	9,245.89	9,404.71	9,331.27	33.84	33.33	-121.47	396.16	-86.04	447.68	382.87	64.81	6.907	
9,600.00	9,254.99	9,636.88	9,455.06	34.44	34.19	-119.07	462.84	96.72	517.83	454.68	63.14	8.201	
9,700.00	9,255.00	9,929.06	9,506.00	35.15	35.91	-117.68	490.23	380.10	554.66	490.64	64.02	8.664	
9,800.00	9,255.00	10,026.42	9,506.00	36.00	36.65	-116.35	490.20	477.46	575.05	509.23	65.82	8.736	
9,900.00	9,255.00	10,124.84	9,506.00	36.97	37.51	-115.39	490.18	575.88	590.96	523.20	67.76	8.722	
10,000.00	9,255.00	10,224.05	9,506.00	38.06	38.50	-114.74	490.16	675.09	602.26	532.43	69.83	8.625	
10,100.00	9,255.00	10,323.78	9,506.00	39.24	39.60	-114.37	490.14	774.82	608.85	536.83	72.03	8.453	
10,200.00	9,255.00	10,423.75	9,506.00	40.50	40.80	-114.27	490.11	874.79	610.73	536.41	74.32	8.217	

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 #205H
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:	#205H	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:	0.00 usft
Survey Program: 0-MWDD+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	
10,300.00	9,255.00	10,523.75	9,506.00	41.85	42.10	-114.27	490.09	974.79	610.75	534.00	76.75	7.958	
10,400.00	9,255.00	10,623.75	9,506.00	43.28	43.47	-114.27	490.07	1,074.79	610.77	531.44	79.33	7.699	
10,500.00	9,255.00	10,723.75	9,506.00	44.78	44.93	-114.26	490.04	1,174.79	610.79	528.74	82.06	7.443	
10,600.00	9,255.00	10,823.75	9,506.00	46.35	46.45	-114.26	490.02	1,274.79	610.82	525.91	84.91	7.194	
10,700.00	9,255.00	10,923.75	9,506.00	47.98	48.04	-114.26	490.00	1,374.79	610.84	522.97	87.87	6.952	
10,800.00	9,255.00	11,023.75	9,506.00	49.66	49.68	-114.26	489.98	1,474.79	610.86	519.92	90.94	6.717	
10,900.00	9,255.00	11,123.75	9,506.00	51.40	51.37	-114.26	489.95	1,574.79	610.88	516.79	94.09	6.492	
11,000.00	9,255.00	11,223.75	9,506.00	53.17	53.11	-114.26	489.93	1,674.79	610.90	513.57	97.34	6.276	
11,100.00	9,255.00	11,323.75	9,506.00	54.99	54.89	-114.26	489.91	1,774.79	610.93	510.27	100.65	6.070	
11,200.00	9,255.00	11,423.75	9,506.00	56.84	56.71	-114.26	489.88	1,874.79	610.95	506.91	104.04	5.872	
11,300.00	9,255.00	11,523.75	9,506.00	58.72	58.57	-114.26	489.86	1,974.79	610.97	503.48	107.49	5.684	
11,400.00	9,255.00	11,623.75	9,506.00	60.64	60.45	-114.26	489.84	2,074.79	610.99	500.00	110.99	5.505	
11,500.00	9,255.00	11,723.75	9,506.00	62.58	62.37	-114.25	489.81	2,174.79	611.01	496.47	114.55	5.334	
11,600.00	9,255.00	11,823.75	9,506.00	64.54	64.31	-114.25	489.79	2,274.79	611.04	492.89	118.15	5.172	
11,700.00	9,255.00	11,923.75	9,506.00	66.53	66.27	-114.25	489.77	2,374.79	611.06	489.27	121.79	5.017	
11,800.00	9,255.00	12,023.75	9,506.00	68.54	68.25	-114.25	489.75	2,474.79	611.08	485.61	125.47	4.870	
11,900.00	9,255.00	12,123.75	9,506.00	70.56	70.26	-114.25	489.72	2,574.79	611.10	481.91	129.19	4.730	
12,000.00	9,255.00	12,223.75	9,506.00	72.60	72.28	-114.25	489.70	2,674.79	611.13	478.19	132.94	4.597	
12,100.00	9,255.00	12,323.75	9,506.00	74.66	74.32	-114.25	489.68	2,774.79	611.15	474.43	136.72	4.470	
12,200.00	9,255.00	12,423.75	9,506.00	76.74	76.38	-114.25	489.65	2,874.79	611.17	470.64	140.53	4.349	
12,300.00	9,255.00	12,523.75	9,506.00	78.82	78.45	-114.25	489.63	2,974.79	611.19	466.83	144.36	4.234	
12,400.00	9,255.00	12,623.75	9,506.00	80.92	80.53	-114.25	489.61	3,074.79	611.21	463.00	148.21	4.124	
12,500.00	9,255.00	12,723.75	9,506.00	83.03	82.62	-114.25	489.59	3,174.79	611.24	459.15	152.09	4.019	
12,600.00	9,255.00	12,823.75	9,506.00	85.15	84.73	-114.24	489.56	3,274.79	611.26	455.27	155.99	3.919	
12,700.00	9,255.00	12,923.75	9,506.00	87.28	86.84	-114.24	489.54	3,374.79	611.28	451.38	159.90	3.823	
12,800.00	9,255.00	13,023.75	9,506.00	89.41	88.97	-114.24	489.52	3,474.79	611.30	447.47	163.83	3.731	
12,900.00	9,255.00	13,123.75	9,506.00	91.56	91.10	-114.24	489.49	3,574.79	611.32	443.54	167.78	3.644	
13,000.00	9,255.00	13,223.75	9,506.00	93.71	93.25	-114.24	489.47	3,674.79	611.35	439.60	171.74	3.560	
13,100.00	9,255.00	13,323.75	9,506.00	95.88	95.40	-114.24	489.45	3,774.79	611.37	435.65	175.72	3.479	
13,200.00	9,255.00	13,423.75	9,506.00	98.04	97.55	-114.24	489.42	3,874.79	611.39	431.68	179.71	3.402	
13,300.00	9,255.00	13,523.75	9,506.00	100.22	99.72	-114.24	489.40	3,974.79	611.41	427.70	183.71	3.328	
13,400.00	9,255.00	13,623.75	9,506.00	102.40	101.89	-114.24	489.38	4,074.79	611.44	423.71	187.72	3.257	
13,500.00	9,255.00	13,723.75	9,506.00	104.58	104.07	-114.24	489.36	4,174.79	611.46	419.71	191.75	3.189	
13,600.00	9,255.00	13,823.75	9,506.00	106.77	106.25	-114.24	489.33	4,274.79	611.48	415.70	195.78	3.123	
13,700.00	9,255.00	13,923.75	9,506.00	108.97	108.43	-114.23	489.31	4,374.79	611.50	411.68	199.82	3.060	
13,800.00	9,255.00	14,023.75	9,506.00	111.17	110.63	-114.23	489.29	4,474.79	611.52	407.65	203.87	3.000	
13,900.00	9,255.00	14,123.75	9,506.00	113.38	112.82	-114.23	489.26	4,574.79	611.55	403.61	207.93	2.941	
14,000.00	9,255.00	14,223.75	9,506.00	115.58	115.03	-114.23	489.24	4,674.79	611.57	399.57	212.00	2.885	
14,100.00	9,255.00	14,323.75	9,506.00	117.80	117.23	-114.23	489.22	4,774.79	611.59	395.51	216.08	2.830	
14,200.00	9,255.00	14,423.75	9,506.00	120.01	119.44	-114.23	489.20	4,874.79	611.61	391.46	220.16	2.778	
14,300.00	9,255.00	14,523.75	9,506.00	122.23	121.65	-114.23	489.17	4,974.79	611.63	387.39	224.25	2.728	
14,400.00	9,255.00	14,623.75	9,506.00	124.46	123.87	-114.23	489.15	5,074.79	611.66	383.32	228.34	2.679	
14,500.00	9,255.00	14,723.75	9,506.00	126.68	126.09	-114.23	489.13	5,174.79	611.68	379.24	232.44	2.632	
14,600.00	9,255.00	14,823.75	9,506.00	128.91	128.31	-114.23	489.10	5,274.79	611.70	375.16	236.55	2.586	
14,700.00	9,255.00	14,923.75	9,506.00	131.14	130.54	-114.22	489.08	5,374.79	611.72	371.07	240.66	2.542	
14,800.00	9,255.00	15,023.75	9,506.00	133.38	132.77	-114.22	489.06	5,474.79	611.75	366.97	244.77	2.499	
14,900.00	9,255.00	15,123.75	9,506.00	135.61	135.00	-114.22	489.03	5,574.79	611.77	362.87	248.89	2.458	
15,000.00	9,255.00	15,223.75	9,506.00	137.85	137.23	-114.22	489.01	5,674.79	611.79	358.77	253.02	2.418	
15,100.00	9,255.00	15,323.75	9,506.00	140.09	139.47	-114.22	488.99	5,774.79	611.81	354.66	257.15	2.379	
15,200.00	9,255.00	15,423.75	9,506.00	142.34	141.71	-114.22	488.97	5,874.79	611.83	350.55	261.28	2.342	
15,300.00	9,255.00	15,523.75	9,506.00	144.58	143.95	-114.22	488.94	5,974.79	611.86	346.43	265.42	2.305	
15,400.00	9,255.00	15,623.75	9,506.00	146.83	146.19	-114.22	488.92	6,074.79	611.88	342.31	269.56	2.270	

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 #205H
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:	#205H	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:	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	Semi Major Axis	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
15,500.00	9,255.00	15,723.75	9,506.00	149.08	148.44	-114.22		488.90	6,174.79	611.90	338.19	273.71	2.236	
15,600.00	9,255.00	15,823.75	9,506.00	151.33	150.69	-114.22		488.87	6,274.79	611.92	334.06	277.86	2.202	
15,700.00	9,255.00	15,923.75	9,506.00	153.58	152.94	-114.22		488.85	6,374.79	611.94	329.93	282.01	2.170	
15,800.00	9,255.00	16,023.75	9,506.00	155.84	155.19	-114.21		488.83	6,474.79	611.97	325.80	286.17	2.138	
15,900.00	9,255.00	16,123.75	9,506.00	158.09	157.44	-114.21		488.80	6,574.79	611.99	321.66	290.33	2.108	
16,000.00	9,255.00	16,223.75	9,506.00	160.35	159.69	-114.21		488.78	6,674.79	612.01	317.52	294.49	2.078	
16,100.00	9,255.00	16,323.75	9,506.00	162.61	161.95	-114.21		488.76	6,774.79	612.03	313.38	298.65	2.049	
16,200.00	9,255.00	16,423.75	9,506.00	164.87	164.21	-114.21		488.74	6,874.79	612.06	309.24	302.82	2.021	
16,300.00	9,255.00	16,523.75	9,506.00	167.13	166.46	-114.21		488.71	6,974.79	612.08	305.09	306.99	1.994	
16,400.00	9,255.00	16,623.75	9,506.00	169.40	168.72	-114.21		488.69	7,074.79	612.10	300.94	311.16	1.967	
16,500.00	9,255.00	16,723.75	9,506.00	171.66	170.98	-114.21		488.67	7,174.79	612.12	296.79	315.33	1.941	
16,600.00	9,255.00	16,823.75	9,506.00	173.93	173.25	-114.21		488.64	7,274.79	612.14	292.63	319.51	1.916	
16,700.00	9,255.00	16,923.75	9,506.00	176.19	175.51	-114.21		488.62	7,374.79	612.17	288.48	323.69	1.891	
16,800.00	9,255.00	17,023.75	9,506.00	178.46	177.78	-114.21		488.60	7,474.79	612.19	284.32	327.87	1.867	
16,900.00	9,255.00	17,123.75	9,506.00	180.73	180.04	-114.20		488.58	7,574.79	612.21	280.16	332.05	1.844	
17,000.00	9,255.00	17,223.75	9,506.00	183.00	182.31	-114.20		488.55	7,674.79	612.23	276.00	336.24	1.821	
17,100.00	9,255.00	17,323.75	9,506.00	185.27	184.58	-114.20		488.53	7,774.79	612.25	271.83	340.42	1.799	
17,200.00	9,255.00	17,423.75	9,506.00	187.54	186.85	-114.20		488.51	7,874.79	612.28	267.67	344.61	1.777	
17,300.00	9,255.00	17,523.75	9,506.00	189.81	189.12	-114.20		488.48	7,974.79	612.30	263.50	348.80	1.755	
17,400.00	9,255.00	17,623.75	9,506.00	192.09	191.39	-114.20		488.46	8,074.79	612.32	259.33	352.99	1.735	
17,500.00	9,255.00	17,723.75	9,506.00	194.36	193.66	-114.20		488.44	8,174.79	612.34	255.16	357.19	1.714	
17,600.00	9,255.00	17,823.75	9,506.00	196.64	195.93	-114.20		488.41	8,274.79	612.37	250.98	361.38	1.695	
17,700.00	9,255.00	17,923.75	9,506.00	198.91	198.20	-114.20		488.39	8,374.79	612.39	246.81	365.58	1.675	
17,800.00	9,255.00	18,023.75	9,506.00	201.19	200.48	-114.20		488.37	8,474.79	612.41	242.63	369.78	1.656	
17,900.00	9,255.00	18,123.75	9,506.00	203.47	202.75	-114.19		488.35	8,574.79	612.43	238.46	373.98	1.638	
18,000.00	9,255.00	18,223.75	9,506.00	205.74	205.03	-114.19		488.32	8,674.79	612.45	234.28	378.18	1.619	
18,100.00	9,255.00	18,323.75	9,506.00	208.02	207.31	-114.19		488.30	8,774.79	612.48	230.10	382.38	1.602	
18,200.00	9,255.00	18,423.75	9,506.00	210.30	209.58	-114.19		488.28	8,874.79	612.50	225.91	386.58	1.584	
18,300.00	9,255.00	18,523.75	9,506.00	212.58	211.86	-114.19		488.25	8,974.79	612.52	221.73	390.79	1.567	
18,400.00	9,255.00	18,623.75	9,506.00	214.86	214.14	-114.19		488.23	9,074.79	612.54	217.55	394.99	1.551	
18,500.00	9,255.00	18,723.75	9,506.00	217.14	216.42	-114.19		488.21	9,174.79	612.56	213.36	399.20	1.534	
18,600.00	9,255.00	18,823.75	9,506.00	219.43	218.70	-114.19		488.18	9,274.79	612.59	209.18	403.41	1.519	
18,700.00	9,255.00	18,923.75	9,506.00	221.71	220.98	-114.19		488.16	9,374.79	612.61	204.99	407.62	1.503	
18,800.00	9,255.00	19,023.75	9,506.00	223.99	223.26	-114.19		488.14	9,474.79	612.63	200.80	411.83	1.488 Level 3	
18,900.00	9,255.00	19,123.75	9,506.00	226.28	225.54	-114.19		488.12	9,574.79	612.65	196.61	416.04	1.473 Level 3	
19,000.00	9,255.00	19,223.75	9,506.00	228.56	227.82	-114.18		488.09	9,674.79	612.68	192.42	420.25	1.458 Level 3	
19,100.00	9,255.00	19,323.75	9,506.00	230.84	230.11	-114.18		488.07	9,774.79	612.70	188.23	424.47	1.443 Level 3	
19,200.00	9,255.00	19,423.75	9,506.00	233.13	232.39	-114.18		488.05	9,874.79	612.72	184.04	428.68	1.429 Level 3	
19,300.00	9,255.00	19,523.75	9,506.00	235.41	234.67	-114.18		488.02	9,974.79	612.74	179.84	432.90	1.415 Level 3	
19,400.00	9,255.00	19,623.75	9,506.00	236.87	236.96	-114.18		488.00	10,074.79	612.76	176.42	436.34	1.404 Level 3	
19,407.34	9,255.00	19,631.09	9,506.00	236.98	237.13	-114.18		488.00	10,082.13	612.77	176.17	436.60	1.404 Level 3, SF	

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #205H
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:	#205H	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		Minimum Separation	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	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	0.13	0.00	30.00	0.00	30.00	29.74	0.26	117.047	
200.00	200.00	200.00	200.00	0.49	0.49	0.00	30.00	0.00	30.00	29.03	0.97	30.825	
300.00	300.00	300.00	300.00	0.85	0.85	0.00	30.00	0.00	30.00	28.31	1.69	17.749	
400.00	400.00	400.00	400.00	1.20	1.20	0.00	30.00	0.00	30.00	27.59	2.41	12.463	
500.00	500.00	500.00	500.00	1.56	1.56	0.00	30.00	0.00	30.00	26.88	3.12	9.603	
600.00	600.00	600.00	600.00	1.92	1.92	0.00	30.00	0.00	30.00	26.16	3.84	7.810	
700.00	700.00	700.00	700.00	2.28	2.28	0.00	30.00	0.00	30.00	25.44	4.56	6.582	
800.00	800.00	800.00	800.00	2.64	2.64	0.00	30.00	0.00	30.00	24.73	5.27	5.687	
900.00	899.98	900.02	899.98	2.99	3.00	55.76	30.00	0.00	28.98	22.99	5.99	4.839	
1,000.00	999.84	1,000.16	999.84	3.35	3.35	65.23	30.00	0.00	26.39	19.69	6.70	3.938	
1,100.00	1,099.45	1,100.55	1,099.45	3.71	3.71	84.39	30.00	0.00	24.07	16.65	7.42	3.244	
1,122.03	1,121.35	1,121.35	1,121.35	3.79	3.79	90.00	30.00	0.00	23.96	16.38	7.57	3.163 CC, ES	
1,200.00	1,198.72	1,201.28	1,198.72	4.07	4.08	111.90	30.00	0.00	25.85	17.71	8.14	3.175	
1,300.00	1,297.86	1,302.14	1,297.86	4.44	4.44	133.28	30.00	0.00	33.04	24.18	8.86	3.729	
1,400.00	1,397.01	1,402.99	1,397.01	4.82	4.80	145.98	30.00	0.00	43.08	33.50	9.58	4.497	
1,500.00	1,496.15	1,503.85	1,496.15	5.20	5.16	153.68	30.00	0.00	54.40	44.11	10.30	5.283	
1,600.00	1,595.30	1,604.70	1,595.30	5.58	5.52	158.67	30.00	0.00	66.36	55.35	11.02	6.024	
1,700.00	1,694.44	1,705.56	1,694.44	5.96	5.88	162.13	30.00	0.00	78.67	66.93	11.74	6.703	
1,800.00	1,793.59	1,806.41	1,793.59	6.35	6.25	164.64	30.00	0.00	91.18	78.72	12.46	7.319	
1,900.00	1,892.74	1,907.27	1,892.74	6.74	6.61	166.55	30.00	0.00	103.83	90.65	13.18	7.877	
2,000.00	1,991.88	1,991.88	1,991.88	7.13	6.91	168.04	30.00	0.00	116.56	102.71	13.85	8.418	
2,100.00	2,091.03	2,090.81	2,090.79	7.52	7.25	169.88	28.68	-0.58	129.43	114.88	14.55	8.898	
2,200.00	2,190.17	2,189.31	2,189.17	7.91	7.57	172.74	24.28	-2.52	142.72	127.49	15.23	9.373	
2,300.00	2,289.32	2,287.16	2,286.68	8.30	7.89	176.32	16.84	-5.79	156.84	140.94	15.91	9.861	
2,400.00	2,388.46	2,385.25	2,384.22	8.69	8.22	-179.95	7.33	-9.97	171.98	155.39	16.59	10.366	
2,500.00	2,487.61	2,483.52	2,481.93	9.08	8.55	-176.81	-2.24	-14.18	187.75	170.46	17.28	10.862	
2,600.00	2,586.75	2,581.78	2,579.63	9.48	8.89	-174.15	-11.82	-18.39	203.98	186.00	17.98	11.342	
2,700.00	2,685.90	2,680.05	2,677.34	9.87	9.23	-171.89	-21.39	-22.61	220.58	201.89	18.69	11.803	
2,800.00	2,785.04	2,778.31	2,775.04	10.27	9.57	-169.94	-30.97	-26.82	237.47	218.07	19.40	12.243	
2,900.00	2,884.19	2,876.57	2,872.75	10.66	9.91	-168.25	-40.54	-31.03	254.59	234.48	20.11	12.662	
3,000.00	2,983.34	2,974.84	2,970.45	11.06	10.26	-166.78	-50.12	-35.24	271.90	251.08	20.82	13.058	
3,100.00	3,082.48	3,073.10	3,068.16	11.45	10.61	-165.48	-59.69	-39.45	289.37	267.83	21.54	13.435	
3,200.00	3,181.63	3,171.36	3,165.86	11.85	10.97	-164.33	-69.26	-43.66	306.96	284.70	22.26	13.791	
3,300.00	3,280.77	3,269.63	3,263.57	12.24	11.32	-163.31	-78.84	-47.87	324.65	301.67	22.98	14.128	
3,400.00	3,380.14	3,368.16	3,361.54	12.63	11.68	-162.39	-88.44	-52.10	340.66	316.96	23.70	14.373	
3,500.00	3,479.84	3,467.11	3,459.93	13.00	12.04	-161.36	-98.08	-56.34	353.48	329.06	24.42	14.475	
3,600.00	3,579.75	3,566.34	3,558.60	13.36	12.40	-160.22	-107.75	-60.59	363.16	338.02	25.14	14.447	
3,700.00	3,679.74	3,665.75	3,657.44	13.70	12.77	148.09	-117.44	-64.85	369.90	344.05	25.85	14.310	
3,800.00	3,779.74	3,765.18	3,756.31	14.03	13.13	149.43	-127.13	-69.11	376.03	349.47	26.56	14.158	
3,900.00	3,879.74	3,864.61	3,855.17	14.37	13.50	150.72	-136.81	-73.38	382.36	355.09	27.27	14.021	
4,000.00	3,979.74	3,964.04	3,954.04	14.71	13.87	151.97	-146.50	-77.64	388.88	360.89	27.98	13.897	
4,100.00	4,079.74	4,063.47	4,052.91	15.04	14.24	153.17	-156.19	-81.90	395.57	366.88	28.70	13.785	
4,200.00	4,179.74	4,162.91	4,151.77	15.38	14.61	154.34	-165.88	-86.16	402.44	373.03	29.41	13.685	
4,300.00	4,279.74	4,262.34	4,250.64	15.72	14.98	155.47	-175.57	-90.42	409.47	379.35	30.12	13.594	
4,400.00	4,379.74	4,361.77	4,349.51	16.07	15.36	156.56	-185.26	-94.68	416.65	385.82	30.83	13.512	
4,500.00	4,479.74	4,461.20	4,448.37	16.41	15.73	157.61	-194.94	-98.95	423.98	392.43	31.55	13.439	
4,600.00	4,579.74	4,560.63	4,547.24	16.75	16.10	158.63	-204.63	-103.21	431.45	399.19	32.26	13.373	
4,700.00	4,679.74	4,660.06	4,646.11	17.09	16.48	159.61	-214.32	-107.47	439.05	406.07	32.98	13.314	
4,800.00	4,779.74	4,759.50	4,744.97	17.44	16.85	160.56	-224.01	-111.73	446.77	413.08	33.69	13.261	
4,900.00	4,879.74	4,858.93	4,843.84	17.78	17.23	161.47	-233.70	-115.99	454.61	420.20	34.40	13.214	
5,000.00	4,979.74	4,958.36	4,942.71	18.13	17.61	162.36	-243.39	-120.25	462.56	427.44	35.12	13.172	

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 #205H
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:	#205H	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		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	5,079.74	5,057.79	5,041.58	18.47	17.98	163.21	-253.08	-124.52	470.62	434.79	35.83	13.135		
5,200.00	5,179.74	5,157.22	5,140.44	18.82	18.36	164.04	-262.76	-128.78	478.78	442.23	36.54	13.101		
5,300.00	5,279.74	5,256.66	5,239.31	19.17	18.74	164.84	-272.45	-133.04	487.03	449.78	37.26	13.072		
5,400.00	5,379.74	5,356.09	5,338.18	19.51	19.11	165.61	-282.14	-137.30	495.38	457.41	37.97	13.046		
5,500.00	5,479.74	5,455.52	5,437.04	19.86	19.49	166.35	-291.83	-141.56	503.81	465.13	38.69	13.023		
5,600.00	5,579.74	5,554.95	5,535.91	20.21	19.87	167.07	-301.52	-145.82	512.33	472.93	39.40	13.003		
5,700.00	5,679.74	5,654.38	5,634.78	20.56	20.25	167.77	-311.21	-150.09	520.92	480.81	40.11	12.986		
5,800.00	5,779.74	5,753.81	5,733.64	20.91	20.63	168.45	-320.89	-154.35	529.59	488.76	40.83	12.972		
5,900.00	5,879.74	5,853.25	5,832.51	21.25	21.01	169.10	-330.58	-158.61	538.33	496.79	41.54	12.959		
6,000.00	5,979.74	5,952.68	5,931.38	21.60	21.39	169.73	-340.27	-162.87	547.14	504.88	42.25	12.949		
6,100.00	6,079.74	6,052.11	6,030.24	21.95	21.77	170.35	-349.96	-167.13	556.01	513.04	42.97	12.940		
6,200.00	6,179.74	6,151.54	6,129.11	22.30	22.15	170.94	-359.65	-171.39	564.94	521.26	43.68	12.933		
6,300.00	6,279.74	6,250.97	6,227.98	22.65	22.53	171.51	-369.34	-175.66	573.93	529.54	44.40	12.927		
6,400.00	6,379.74	6,350.41	6,326.84	23.00	22.91	172.07	-379.03	-179.92	582.98	537.87	45.11	12.923		
6,500.00	6,479.74	6,449.84	6,425.71	23.35	23.29	172.61	-388.71	-184.18	592.08	546.26	45.82	12.921		
6,600.00	6,579.74	6,549.27	6,524.58	23.70	23.68	173.14	-398.40	-188.44	601.23	554.69	46.54	12.919		
6,700.00	6,679.74	6,648.70	6,623.45	24.05	24.06	173.64	-408.09	-192.70	610.43	563.18	47.25	12.918		
6,800.00	6,779.74	6,748.13	6,722.31	24.41	24.44	174.14	-417.78	-196.96	619.68	571.71	47.97	12.919		
6,900.00	6,879.74	6,847.56	6,821.18	24.76	24.82	174.61	-427.47	-201.23	628.96	580.28	48.68	12.920		
7,000.00	6,979.74	6,947.00	6,920.05	25.11	25.20	175.08	-437.16	-205.49	638.30	588.90	49.40	12.922		
7,100.00	7,079.74	7,046.43	7,018.91	25.46	25.59	175.53	-446.85	-209.75	647.67	597.56	50.11	12.925		
7,200.00	7,179.74	7,145.86	7,117.78	25.81	25.97	175.97	-456.53	-214.01	657.08	606.26	50.82	12.928		
7,300.00	7,279.74	7,245.29	7,216.65	26.17	26.35	176.39	-466.22	-218.27	666.53	614.99	51.54	12.932		
7,400.00	7,379.74	7,344.72	7,315.51	26.52	26.73	176.81	-475.91	-222.53	676.01	623.76	52.25	12.937		
7,500.00	7,479.74	7,444.16	7,414.38	26.87	27.12	177.21	-485.60	-226.80	685.53	632.56	52.97	12.942		
7,600.00	7,579.74	7,543.59	7,513.25	27.22	27.50	177.60	-495.29	-231.06	695.08	641.40	53.68	12.948		
7,700.00	7,679.74	7,643.02	7,612.11	27.58	27.88	177.98	-504.98	-235.32	704.66	650.26	54.40	12.954		
7,800.00	7,779.74	7,742.45	7,710.98	27.93	28.27	178.35	-514.66	-239.58	714.28	659.16	55.11	12.960		
7,900.00	7,879.74	7,841.88	7,809.85	28.28	28.65	178.72	-524.35	-243.84	723.92	668.09	55.83	12.967		
8,000.00	7,979.74	7,941.32	7,908.71	28.63	29.03	179.07	-534.04	-248.10	733.58	677.04	56.54	12.974		
8,100.00	8,079.74	8,040.75	8,007.58	28.99	29.42	179.41	-543.73	-252.37	743.28	686.02	57.26	12.981		
8,200.00	8,179.74	8,140.18	8,106.45	29.34	29.80	179.74	-553.42	-256.63	753.00	695.03	57.97	12.988		
8,300.00	8,279.74	8,242.94	8,208.63	29.70	30.20	-179.92	-563.40	-261.02	762.72	704.01	58.72	12.990		
8,400.00	8,379.74	8,345.07	8,310.34	30.05	30.69	-179.61	-572.92	-265.21	769.95	710.31	59.64	12.909		
8,500.00	8,479.74	8,507.88	8,473.06	30.40	31.16	-179.48	-576.88	-266.95	772.94	712.46	60.48	12.779		
8,600.00	8,579.74	8,614.56	8,579.74	30.76	31.51	-179.48	-577.00	-267.00	773.03	711.84	61.19	12.634		
8,700.00	8,679.74	8,714.56	8,679.74	31.11	31.83	-179.48	-577.00	-267.00	773.03	711.16	61.87	12.494		
8,800.00	8,779.27	8,814.09	8,779.27	31.44	32.14	73.74	-577.00	-267.00	770.63	708.11	62.52	12.325		
8,900.00	8,875.84	8,910.66	8,875.84	31.73	32.46	76.17	-577.00	-267.00	763.79	700.66	63.13	12.099		
9,000.00	8,966.53	8,964.55	8,929.67	32.01	32.63	78.43	-578.39	-265.35	756.40	692.83	63.57	11.899		
9,100.00	9,048.57	9,016.29	8,980.95	32.28	32.81	80.65	-582.76	-260.14	752.47	688.56	63.91	11.774		
9,138.46	9,077.28	9,036.08	9,000.36	32.39	32.88	81.47	-585.21	-257.21	752.11	688.07	64.04	11.744		
9,200.00	9,119.47	9,067.58	9,030.96	32.57	32.99	82.73	-590.01	-251.50	753.09	688.84	64.26	11.720		
9,300.00	9,177.08	9,118.22	9,079.16	32.91	33.16	84.51	-599.96	-239.64	759.28	694.58	64.70	11.735		
9,400.00	9,219.65	9,168.02	9,125.05	33.33	33.33	85.84	-612.37	-224.84	771.88	706.57	65.30	11.820		
9,500.00	9,245.89	9,216.76	9,168.17	33.84	33.49	86.58	-626.96	-207.46	791.45	725.41	66.04	11.984		
9,600.00	9,254.99	9,264.16	9,208.10	34.44	33.64	86.63	-643.35	-187.92	818.22	751.40	66.82	12.245		
9,700.00	9,255.00	9,315.77	9,249.03	35.15	33.81	89.56	-663.55	-163.86	854.56	786.99	67.58	12.646		
9,800.00	9,255.00	10,070.62	9,506.00	36.00	37.09	107.77	-827.05	476.93	838.33	769.39	68.94	12.160		
9,900.00	9,255.00	10,169.05	9,506.00	36.97	37.96	107.98	-827.10	575.36	821.55	750.98	70.57	11.641		
10,000.00	9,255.00	10,268.26	9,506.00	38.06	38.95	108.14	-827.15	674.57	809.73	737.26	72.47	11.174		
10,100.00	9,255.00	10,367.99	9,506.00	39.24	40.06	108.24	-827.20	774.30	802.87	728.27	74.60	10.762		

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 #205H
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:	#205H	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	
10,199.91	9,255.00	10,467.86	9,506.00	40.50	41.28	108.27	-827.25	874.17	800.69	723.72	76.97	10.403	
10,200.00	9,255.00	10,467.96	9,506.00	40.50	41.28	108.26	-827.25	874.27	800.95	723.97	76.97	10.406	
10,300.00	9,255.00	10,567.96	9,506.00	41.85	42.59	108.26	-827.30	974.27	800.95	721.42	79.53	10.071	
10,400.00	9,255.00	10,667.96	9,506.00	43.28	43.98	108.26	-827.35	1,074.27	800.95	718.71	82.24	9.739	
10,500.00	9,255.00	10,767.96	9,506.00	44.78	45.44	108.26	-827.40	1,174.27	800.96	715.86	85.10	9.412	
10,600.00	9,255.00	10,867.96	9,506.00	46.35	46.98	108.26	-827.46	1,274.27	800.96	712.87	88.09	9.093	
10,700.00	9,255.00	10,967.96	9,506.00	47.98	48.58	108.26	-827.51	1,374.27	800.97	709.78	91.19	8.783	
10,800.00	9,255.00	11,067.96	9,506.00	49.66	50.23	108.26	-827.56	1,474.27	800.97	706.57	94.40	8.485	
10,900.00	9,255.00	11,167.96	9,506.00	51.40	51.93	108.26	-827.61	1,574.27	800.98	703.27	97.70	8.198	
11,000.00	9,255.00	11,267.96	9,506.00	53.17	53.68	108.26	-827.66	1,674.27	800.98	699.89	101.09	7.924	
11,100.00	9,255.00	11,367.96	9,506.00	54.99	55.47	108.26	-827.71	1,774.27	800.98	696.43	104.55	7.661	
11,200.00	9,255.00	11,467.96	9,506.00	56.84	57.29	108.26	-827.77	1,874.27	800.99	692.90	108.08	7.411	
11,300.00	9,255.00	11,567.96	9,506.00	58.72	59.15	108.26	-827.82	1,974.27	800.99	689.31	111.68	7.172	
11,400.00	9,255.00	11,667.96	9,506.00	60.64	61.04	108.26	-827.87	2,074.27	801.00	685.66	115.33	6.945	
11,500.00	9,255.00	11,767.96	9,506.00	62.58	62.96	108.26	-827.92	2,174.27	801.00	681.96	119.04	6.729	
11,600.00	9,255.00	11,867.96	9,506.00	64.54	64.90	108.26	-827.97	2,274.27	801.00	678.21	122.79	6.523	
11,700.00	9,255.00	11,967.96	9,506.00	66.53	66.87	108.26	-828.02	2,374.27	801.01	674.42	126.59	6.328	
11,800.00	9,255.00	12,067.96	9,506.00	68.54	68.86	108.26	-828.08	2,474.27	801.01	670.59	130.42	6.142	
11,900.00	9,255.00	12,167.96	9,506.00	70.56	70.87	108.26	-828.13	2,574.27	801.02	666.73	134.29	5.965	
12,000.00	9,255.00	12,267.96	9,506.00	72.60	72.89	108.26	-828.18	2,674.27	801.02	662.83	138.19	5.796	
12,100.00	9,255.00	12,367.96	9,506.00	74.66	74.94	108.26	-828.23	2,774.27	801.02	658.90	142.12	5.636	
12,200.00	9,255.00	12,467.96	9,506.00	76.74	76.99	108.26	-828.28	2,874.27	801.03	654.94	146.08	5.483	
12,300.00	9,255.00	12,567.96	9,506.00	78.82	79.06	108.26	-828.33	2,974.27	801.03	650.96	150.07	5.338	
12,400.00	9,255.00	12,667.96	9,506.00	80.92	81.15	108.26	-828.38	3,074.27	801.04	646.96	154.08	5.199	
12,500.00	9,255.00	12,767.96	9,506.00	83.03	83.24	108.26	-828.44	3,174.27	801.04	642.93	158.11	5.066	
12,600.00	9,255.00	12,867.96	9,506.00	85.15	85.35	108.26	-828.49	3,274.27	801.05	638.89	162.16	4.940	
12,700.00	9,255.00	12,967.96	9,506.00	87.28	87.47	108.26	-828.54	3,374.27	801.05	634.82	166.23	4.819	
12,800.00	9,255.00	13,067.96	9,506.00	89.41	89.59	108.26	-828.59	3,474.27	801.05	630.74	170.32	4.703	
12,900.00	9,255.00	13,167.96	9,506.00	91.56	91.73	108.26	-828.64	3,574.27	801.06	626.64	174.42	4.593	
13,000.00	9,255.00	13,267.96	9,506.00	93.71	93.87	108.26	-828.69	3,674.27	801.06	622.53	178.54	4.487	
13,100.00	9,255.00	13,367.96	9,506.00	95.88	96.02	108.26	-828.75	3,774.27	801.07	618.40	182.67	4.385	
13,200.00	9,255.00	13,467.96	9,506.00	98.04	98.18	108.26	-828.80	3,874.27	801.07	614.26	186.81	4.288	
13,300.00	9,255.00	13,567.96	9,506.00	100.22	100.35	108.26	-828.85	3,974.27	801.07	610.10	190.97	4.195	
13,400.00	9,255.00	13,667.96	9,506.00	102.40	102.52	108.26	-828.90	4,074.27	801.08	605.94	195.14	4.105	
13,500.00	9,255.00	13,767.96	9,506.00	104.58	104.69	108.26	-828.95	4,174.27	801.08	601.77	199.32	4.019	
13,600.00	9,255.00	13,867.96	9,506.00	106.77	106.88	108.26	-829.00	4,274.27	801.09	597.58	203.50	3.936	
13,700.00	9,255.00	13,967.96	9,506.00	108.97	109.06	108.26	-829.06	4,374.27	801.09	593.39	207.70	3.857	
13,800.00	9,255.00	14,067.96	9,506.00	111.17	111.26	108.26	-829.11	4,474.27	801.09	589.18	211.91	3.780	
13,900.00	9,255.00	14,167.96	9,506.00	113.38	113.45	108.26	-829.16	4,574.27	801.10	584.97	216.13	3.707	
14,000.00	9,255.00	14,267.96	9,506.00	115.58	115.66	108.26	-829.21	4,674.27	801.10	580.75	220.35	3.636	
14,100.00	9,255.00	14,367.96	9,506.00	117.80	117.86	108.26	-829.26	4,774.27	801.11	576.53	224.58	3.567	
14,200.00	9,255.00	14,467.96	9,506.00	120.01	120.07	108.26	-829.31	4,874.27	801.11	572.29	228.82	3.501	
14,300.00	9,255.00	14,567.96	9,506.00	122.23	122.28	108.26	-829.36	4,974.27	801.11	568.05	233.06	3.437	
14,400.00	9,255.00	14,667.96	9,506.00	124.46	124.50	108.26	-829.42	5,074.27	801.12	563.81	237.31	3.376	
14,500.00	9,255.00	14,767.96	9,506.00	126.68	126.72	108.26	-829.47	5,174.27	801.12	559.55	241.57	3.316	
14,600.00	9,255.00	14,867.96	9,506.00	128.91	128.94	108.26	-829.52	5,274.27	801.13	555.30	245.83	3.259	
14,700.00	9,255.00	14,967.96	9,506.00	131.14	131.17	108.26	-829.57	5,374.27	801.13	551.03	250.10	3.203	
14,800.00	9,255.00	15,067.96	9,506.00	133.38	133.40	108.26	-829.62	5,474.27	801.14	546.76	254.37	3.149	
14,900.00	9,255.00	15,167.96	9,506.00	135.61	135.63	108.26	-829.67	5,574.27	801.14	542.49	258.65	3.097	
15,000.00	9,255.00	15,267.96	9,506.00	137.85	137.86	108.26	-829.73	5,674.27	801.14	538.21	262.93	3.047	
15,100.00	9,255.00	15,367.96	9,506.00	140.09	140.10	108.26	-829.78	5,774.27	801.15	533.93	267.22	2.998	
15,200.00	9,255.00	15,467.96	9,506.00	142.34	142.34	108.26	-829.83	5,874.27	801.15	529.64	271.51	2.951	

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 #205H
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:	#205H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi-Major Axis (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	9,255.00	15,567.96	9,506.00	144.58	144.58	108.26		-829.88	5,974.27	801.16	525.35	275.80	2.905	
15,400.00	9,255.00	15,667.96	9,506.00	146.83	146.82	108.26		-829.93	6,074.27	801.16	521.06	280.10	2.860	
15,500.00	9,255.00	15,767.96	9,506.00	149.08	149.07	108.26		-829.98	6,174.27	801.16	516.76	284.40	2.817	
15,600.00	9,255.00	15,867.96	9,506.00	151.33	151.32	108.26		-830.04	6,274.27	801.17	512.46	288.71	2.775	
15,700.00	9,255.00	15,967.96	9,506.00	153.58	153.57	108.26		-830.09	6,374.27	801.17	508.16	293.02	2.734	
15,800.00	9,255.00	16,067.96	9,506.00	155.84	155.82	108.26		-830.14	6,474.26	801.18	503.85	297.33	2.695	
15,900.00	9,255.00	16,167.96	9,506.00	158.09	158.07	108.26		-830.19	6,574.26	801.18	499.54	301.64	2.656	
16,000.00	9,255.00	16,267.96	9,506.00	160.35	160.32	108.26		-830.24	6,674.26	801.18	495.22	305.96	2.619	
16,100.00	9,255.00	16,367.96	9,506.00	162.61	162.58	108.26		-830.29	6,774.26	801.19	490.91	310.28	2.582	
16,200.00	9,255.00	16,467.96	9,506.00	164.87	164.84	108.26		-830.34	6,874.26	801.19	486.59	314.60	2.547	
16,300.00	9,255.00	16,567.96	9,506.00	167.13	167.09	108.26		-830.40	6,974.26	801.20	482.27	318.93	2.512	
16,400.00	9,255.00	16,667.96	9,506.00	169.40	169.35	108.26		-830.45	7,074.26	801.20	477.94	323.26	2.479	
16,500.00	9,255.00	16,767.96	9,506.00	171.66	171.61	108.26		-830.50	7,174.26	801.21	473.62	327.59	2.446	
16,600.00	9,255.00	16,867.96	9,506.00	173.93	173.88	108.26		-830.55	7,274.26	801.21	469.29	331.92	2.414	
16,700.00	9,255.00	16,967.96	9,506.00	176.19	176.14	108.26		-830.60	7,374.26	801.21	464.96	336.26	2.383	
16,800.00	9,255.00	17,067.96	9,506.00	178.46	178.40	108.26		-830.65	7,474.26	801.22	460.63	340.59	2.352	
16,900.00	9,255.00	17,167.96	9,506.00	180.73	180.67	108.26		-830.71	7,574.26	801.22	456.29	344.93	2.323	
17,000.00	9,255.00	17,267.96	9,506.00	183.00	182.94	108.26		-830.76	7,674.26	801.23	451.95	349.27	2.294	
17,100.00	9,255.00	17,367.96	9,506.00	185.27	185.21	108.26		-830.81	7,774.26	801.23	447.62	353.61	2.266	
17,200.00	9,255.00	17,467.96	9,506.00	187.54	187.47	108.26		-830.86	7,874.26	801.23	443.27	357.96	2.238	
17,300.00	9,255.00	17,567.96	9,506.00	189.81	189.74	108.26		-830.91	7,974.26	801.24	438.93	362.31	2.211	
17,400.00	9,255.00	17,667.96	9,506.00	192.09	192.01	108.26		-830.96	8,074.26	801.24	434.59	366.65	2.185	
17,500.00	9,255.00	17,767.96	9,506.00	194.36	194.29	108.26		-831.02	8,174.26	801.25	430.24	371.00	2.160	
17,600.00	9,255.00	17,867.96	9,506.00	196.64	196.56	108.26		-831.07	8,274.26	801.25	425.90	375.35	2.135	
17,700.00	9,255.00	17,967.96	9,506.00	198.91	198.83	108.26		-831.12	8,374.26	801.25	421.55	379.71	2.110	
17,800.00	9,255.00	18,067.96	9,506.00	201.19	201.11	108.26		-831.17	8,474.26	801.26	417.20	384.06	2.086	
17,900.00	9,255.00	18,167.96	9,506.00	203.47	203.38	108.26		-831.22	8,574.26	801.26	412.85	388.42	2.063	
18,000.00	9,255.00	18,267.96	9,506.00	205.74	205.66	108.26		-831.27	8,674.26	801.27	408.49	392.77	2.040	
18,100.00	9,255.00	18,367.96	9,506.00	208.02	207.93	108.26		-831.32	8,774.26	801.27	404.14	397.13	2.018	
18,200.00	9,255.00	18,467.96	9,506.00	210.30	210.21	108.26		-831.38	8,874.26	801.27	399.78	401.49	1.996	
18,300.00	9,255.00	18,567.96	9,506.00	212.58	212.49	108.26		-831.43	8,974.26	801.28	395.43	405.85	1.974	
18,400.00	9,255.00	18,667.96	9,506.00	214.86	214.77	108.26		-831.48	9,074.26	801.28	391.07	410.21	1.953	
18,500.00	9,255.00	18,767.96	9,506.00	217.14	217.05	108.25		-831.53	9,174.26	801.29	386.71	414.58	1.933	
18,600.00	9,255.00	18,867.96	9,506.00	219.43	219.33	108.25		-831.58	9,274.26	801.29	382.35	418.94	1.913	
18,700.00	9,255.00	18,967.96	9,506.00	221.71	221.61	108.25		-831.63	9,374.26	801.30	377.99	423.31	1.893	
18,800.00	9,255.00	19,067.96	9,506.00	223.99	223.89	108.25		-831.69	9,474.26	801.30	373.63	427.67	1.874	
18,900.00	9,255.00	19,167.96	9,506.00	226.28	226.17	108.25		-831.74	9,574.26	801.30	369.26	432.04	1.855	
19,000.00	9,255.00	19,267.96	9,506.00	228.56	228.45	108.25		-831.79	9,674.26	801.31	364.90	436.41	1.836	
19,100.00	9,255.00	19,367.96	9,506.00	230.84	230.73	108.25		-831.84	9,774.26	801.31	360.54	440.78	1.818	
19,200.00	9,255.00	19,467.96	9,506.00	233.13	233.02	108.25		-831.89	9,874.26	801.32	356.17	445.15	1.800	
19,300.00	9,255.00	19,567.96	9,506.00	235.41	235.30	108.25		-831.94	9,974.26	801.32	351.80	449.52	1.783	
19,400.00	9,255.00	19,667.96	9,506.00	236.87	237.58	108.25		-832.00	10,074.26	801.32	348.23	453.09	1.769	
19,407.34	9,255.00	19,675.30	9,506.00	236.98	237.75	108.25		-832.00	10,081.61	801.32	347.97	453.35	1.768 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 #205H
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:	#205H	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										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		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)			
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	899.98	900.02	899.98	2.99	3.00	61.16	220.00	30.00	221.19	215.20	5.99 36.933
1,000.00	999.84	999.84	999.84	3.35	3.35	62.41	220.00	30.00	218.71	212.01	6.70 32.636
1,100.00	1,099.45	1,095.60	1,095.58	3.71	3.69	64.08	221.10	28.84	215.69	208.29	7.40 29.148
1,200.00	1,198.72	1,191.58	1,191.44	4.07	4.04	65.83	224.41	25.36	213.19	205.09	8.10 26.310
1,300.00	1,297.86	1,287.89	1,287.40	4.44	4.38	67.06	229.96	19.53	212.16	203.34	8.81 24.069
1,305.62	1,303.44	1,312.04	1,292.46	4.46	4.47	67.11	230.30	19.16	212.14	203.22	8.92 23.779 CC
1,400.00	1,397.01	1,387.31	1,386.28	4.82	4.74	67.84	237.15	11.96	212.25	202.71	9.55 22.230
1,500.00	1,496.15	1,487.27	1,485.68	5.20	5.10	68.61	244.41	4.32	212.41	202.12	10.29 20.640
1,600.00	1,595.30	1,587.23	1,585.08	5.58	5.47	69.37	251.67	-3.31	212.60	201.56	11.04 19.258
1,700.00	1,694.44	1,687.19	1,684.49	5.96	5.84	70.14	258.93	-10.95	212.83	201.04	11.79 18.048
1,800.00	1,793.59	1,787.15	1,783.89	6.35	6.21	70.90	266.19	-18.58	213.10	200.55	12.55 16.982
1,900.00	1,892.74	1,887.11	1,883.29	6.74	6.59	71.67	273.45	-26.22	213.40	200.10	13.31 16.035
2,000.00	1,991.88	1,987.07	1,982.69	7.13	6.96	72.43	280.71	-33.86	213.75	199.68	14.07 15.191
2,100.00	2,091.03	2,087.03	2,082.10	7.52	7.34	73.18	287.97	-41.49	214.13	199.29	14.84 14.434
2,200.00	2,190.17	2,186.99	2,181.50	7.91	7.71	73.94	295.23	-49.13	214.55	198.95	15.60 13.751
2,300.00	2,289.32	2,286.95	2,280.90	8.30	8.09	74.69	302.49	-56.76	215.00	198.63	16.37 13.133
2,400.00	2,388.46	2,386.90	2,380.30	8.69	8.47	75.44	309.74	-64.40	215.50	198.36	17.14 12.572
2,500.00	2,487.61	2,486.86	2,479.71	9.08	8.84	76.18	317.00	-72.03	216.03	198.11	17.91 12.060
2,600.00	2,586.75	2,586.82	2,579.11	9.48	9.22	76.92	324.26	-79.67	216.59	197.91	18.69 11.591
2,700.00	2,685.90	2,686.78	2,678.51	9.87	9.60	77.66	331.52	-87.30	217.19	197.73	19.46 11.161
2,800.00	2,785.04	2,786.74	2,777.91	10.27	9.98	78.39	338.78	-94.94	217.83	197.60	20.23 10.765
2,900.00	2,884.19	2,886.70	2,877.32	10.66	10.36	79.12	346.04	-102.58	218.51	197.49	21.01 10.400
3,000.00	2,983.34	2,986.66	2,976.72	11.06	10.74	79.85	353.30	-110.21	219.21	197.43	21.79 10.062
3,100.00	3,082.48	3,086.62	3,076.12	11.45	11.12	80.57	360.56	-117.85	219.96	197.39	22.56 9.748
3,200.00	3,181.63	3,186.58	3,175.52	11.85	11.50	81.28	367.82	-125.48	220.73	197.39	23.34 9.457 ES
3,300.00	3,280.77	3,286.54	3,274.93	12.24	11.88	81.99	375.08	-133.12	221.55	197.43	24.12 9.185
3,400.00	3,380.14	3,386.52	3,374.35	12.63	12.27	82.23	382.34	-140.76	222.64	197.75	24.89 8.946
3,500.00	3,479.84	3,486.47	3,473.75	13.00	12.65	81.59	389.60	-148.39	224.22	198.59	25.64 8.746
3,600.00	3,579.75	3,586.26	3,572.98	13.36	13.03	80.11	396.84	-156.01	226.41	200.05	26.37 8.587
3,700.00	3,679.74	3,685.79	3,671.95	13.70	13.41	24.85	404.07	-163.62	229.44	202.37	27.08 8.474
3,800.00	3,779.74	3,785.23	3,770.84	14.03	13.79	22.41	411.29	-171.21	233.05	205.28	27.78 8.390
3,900.00	3,879.74	3,884.67	3,869.73	14.37	14.17	20.05	418.51	-178.81	237.08	208.60	28.48 8.325
4,000.00	3,979.74	3,984.12	3,968.62	14.71	14.55	17.76	425.74	-186.40	241.49	212.32	29.17 8.278
4,100.00	4,079.74	4,083.56	4,067.51	15.04	14.93	15.56	432.96	-194.00	246.28	216.41	29.87 8.245
4,200.00	4,179.74	4,183.00	4,166.40	15.38	15.31	13.45	440.18	-201.60	251.42	220.86	30.57 8.226
4,300.00	4,279.74	4,282.45	4,265.29	15.72	15.69	11.43	447.40	-209.19	256.89	225.63	31.26 8.218
4,400.00	4,379.74	4,381.89	4,364.18	16.07	16.07	9.49	454.62	-216.79	262.67	230.71	31.96 8.220
4,500.00	4,479.74	4,481.33	4,463.06	16.41	16.45	7.63	461.84	-224.38	268.74	236.09	32.65 8.231
4,600.00	4,579.74	4,580.77	4,561.95	16.75	16.83	5.86	469.07	-231.98	275.08	241.73	33.34 8.249
4,700.00	4,679.74	4,680.22	4,660.84	17.09	17.21	4.17	476.29	-239.58	281.67	247.63	34.04 8.275
4,800.00	4,779.74	4,784.05	4,764.17	17.44	17.61	2.60	483.30	-246.95	288.02	253.26	34.76 8.287
4,900.00	4,879.74	4,891.04	4,870.93	17.78	18.00	1.59	488.00	-251.89	292.24	256.77	35.47 8.238
5,000.00	4,979.74	4,998.38	4,978.24	18.13	18.38	1.18	489.94	-253.94	294.01	257.84	36.17 8.128

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 #205H
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:	#205H	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
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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,079.74	5,100.11	5,079.74	18.47	18.72	1.17	490.00	-254.00	294.06	257.20	36.86	7.977	
5,200.00	5,179.74	5,200.11	5,179.74	18.82	19.06	1.17	490.00	-254.00	294.06	256.50	37.56	7.830	
5,300.00	5,279.74	5,300.11	5,279.74	19.17	19.41	1.17	490.00	-254.00	294.06	255.81	38.25	7.688	
5,400.00	5,379.74	5,400.11	5,379.74	19.51	19.75	1.17	490.00	-254.00	294.06	255.11	38.95	7.550	
5,500.00	5,479.74	5,500.11	5,479.74	19.86	20.09	1.17	490.00	-254.00	294.06	254.42	39.64	7.418	
5,600.00	5,579.74	5,600.11	5,579.74	20.21	20.43	1.17	490.00	-254.00	294.06	253.72	40.34	7.290	
5,700.00	5,679.74	5,700.11	5,679.74	20.56	20.78	1.17	490.00	-254.00	294.06	253.03	41.04	7.166	
5,800.00	5,779.74	5,800.11	5,779.74	20.91	21.12	1.17	490.00	-254.00	294.06	252.33	41.73	7.046	
5,900.00	5,879.74	5,900.11	5,879.74	21.25	21.47	1.17	490.00	-254.00	294.06	251.63	42.43	6.930	
6,000.00	5,979.74	6,000.11	5,979.74	21.60	21.81	1.17	490.00	-254.00	294.06	250.93	43.13	6.818	
6,100.00	6,079.74	6,100.11	6,079.74	21.95	22.16	1.17	490.00	-254.00	294.06	250.23	43.83	6.709	
6,200.00	6,179.74	6,200.11	6,179.74	22.30	22.50	1.17	490.00	-254.00	294.06	249.53	44.53	6.604	
6,300.00	6,279.74	6,300.11	6,279.74	22.65	22.85	1.17	490.00	-254.00	294.06	248.83	45.23	6.501	
6,400.00	6,379.74	6,400.11	6,379.74	23.00	23.20	1.17	490.00	-254.00	294.06	248.13	45.93	6.402	
6,500.00	6,479.74	6,500.11	6,479.74	23.35	23.54	1.17	490.00	-254.00	294.06	247.43	46.63	6.306	
6,600.00	6,579.74	6,600.11	6,579.74	23.70	23.89	1.17	490.00	-254.00	294.06	246.73	47.34	6.212	
6,700.00	6,679.74	6,700.11	6,679.74	24.05	24.24	1.17	490.00	-254.00	294.06	246.02	48.04	6.121	
6,800.00	6,779.74	6,800.11	6,779.74	24.41	24.59	1.17	490.00	-254.00	294.06	245.32	48.74	6.033	
6,900.00	6,879.74	6,900.11	6,879.74	24.76	24.93	1.17	490.00	-254.00	294.06	244.62	49.44	5.947	
7,000.00	6,979.74	7,000.11	6,979.74	25.11	25.28	1.17	490.00	-254.00	294.06	243.91	50.15	5.864	
7,100.00	7,079.74	7,100.11	7,079.74	25.46	25.63	1.17	490.00	-254.00	294.06	243.21	50.85	5.783	
7,200.00	7,179.74	7,200.11	7,179.74	25.81	25.98	1.17	490.00	-254.00	294.06	242.50	51.56	5.704	
7,300.00	7,279.74	7,300.11	7,279.74	26.17	26.33	1.17	490.00	-254.00	294.06	241.80	52.26	5.627	
7,400.00	7,379.74	7,400.11	7,379.74	26.52	26.68	1.17	490.00	-254.00	294.06	241.09	52.97	5.552	
7,500.00	7,479.74	7,500.11	7,479.74	26.87	27.03	1.17	490.00	-254.00	294.06	240.39	53.67	5.479	
7,600.00	7,579.74	7,600.11	7,579.74	27.22	27.38	1.17	490.00	-254.00	294.06	239.68	54.38	5.408	
7,700.00	7,679.74	7,700.11	7,679.74	27.58	27.73	1.17	490.00	-254.00	294.06	238.98	55.08	5.338	
7,800.00	7,779.74	7,800.11	7,779.74	27.93	28.08	1.17	490.00	-254.00	294.06	238.27	55.79	5.271	
7,900.00	7,879.74	7,900.11	7,879.74	28.28	28.43	1.17	490.00	-254.00	294.06	237.56	56.50	5.205	
8,000.00	7,979.74	8,000.11	7,979.74	28.63	28.78	1.17	490.00	-254.00	294.06	236.86	57.20	5.141	
8,100.00	8,079.74	8,100.11	8,079.74	28.99	29.13	1.17	490.00	-254.00	294.06	236.15	57.91	5.078	
8,200.00	8,179.74	8,200.11	8,179.74	29.34	29.49	1.17	490.00	-254.00	294.06	235.44	58.62	5.017	
8,300.00	8,279.74	8,300.11	8,279.74	29.70	29.84	1.17	490.00	-254.00	294.06	234.74	59.33	4.957	
8,400.00	8,379.74	8,400.11	8,379.74	30.05	30.19	1.17	490.00	-254.00	294.06	234.03	60.03	4.898	
8,500.00	8,479.74	8,500.11	8,479.74	30.40	30.54	1.17	490.00	-254.00	294.06	233.32	60.74	4.841	
8,600.00	8,579.74	8,600.11	8,579.74	30.76	30.89	1.17	490.00	-254.00	294.06	232.61	61.45	4.785	
8,700.00	8,679.74	8,700.11	8,679.74	31.11	31.24	1.17	490.00	-254.00	294.06	231.90	62.16	4.731	
8,800.00	8,779.27	8,800.58	8,779.27	31.44	31.60	-107.73	490.00	-254.00	296.52	233.70	62.82	4.720	
8,900.00	8,875.84	8,904.01	8,875.84	31.73	31.96	-111.32	490.00	-254.00	305.34	241.90	63.44	4.813	
9,000.00	8,966.53	8,986.67	8,966.53	32.01	32.25	-116.04	490.00	-254.00	323.68	259.75	63.93	5.063	
9,100.00	9,048.57	9,068.71	9,048.57	32.28	32.54	-120.45	490.00	-254.00	355.11	290.72	64.39	5.515	
9,200.00	9,119.47	9,139.62	9,119.47	32.57	32.79	-123.23	490.00	-254.00	401.75	336.96	64.78	6.201	
9,300.00	9,177.08	9,202.77	9,177.08	32.91	33.02	-123.28	490.00	-254.00	463.39	398.27	65.13	7.115	
9,400.00	9,219.65	9,239.80	9,219.65	33.33	33.15	-119.31	490.00	-254.00	537.90	472.54	65.35	8.231	
9,500.00	9,245.89	9,266.04	9,245.89	33.84	33.24	-109.24	490.00	-254.00	622.01	556.50	65.51	9.495	
9,600.00	9,254.99	9,275.14	9,254.99	34.44	33.27	-90.53	490.00	-254.00	712.08	646.50	65.58	10.858	
9,700.00	9,255.00	9,275.14	9,255.00	35.15	33.27	-90.00	490.00	-254.00	803.96	738.35	65.61	12.254	
9,800.00	9,255.00	10,465.67	9,960.00	36.00	38.07	-144.31	489.86	477.44	874.27	822.67	51.60	16.943	
9,900.00	9,255.00	10,564.09	9,960.00	36.97	38.93	-143.14	489.84	575.86	884.81	831.53	53.28	16.607	
10,000.00	9,255.00	10,663.30	9,960.00	38.06	39.91	-142.32	489.82	675.07	892.40	837.43	54.97	16.235	
10,100.00	9,255.00	10,763.03	9,960.00	39.24	41.00	-141.85	489.80	774.80	896.86	840.22	56.64	15.835	
10,200.00	9,255.00	10,862.99	9,960.00	40.50	42.19	-141.72	489.78	874.77	898.13	839.86	58.27	15.414	

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 #205H
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:	#205H	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:
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
10,300.00	9,255.00	10,962.99	9,960.00	41.85	43.47	-141.72	489.76	974.77	898.15	838.20	59.95	14.983	
10,400.00	9,255.00	11,062.99	9,960.00	43.28	44.84	-141.71	489.74	1,074.77	898.17	836.43	61.73	14.549	
10,500.00	9,255.00	11,162.99	9,960.00	44.78	46.28	-141.71	489.72	1,174.77	898.18	834.56	63.62	14.117	
10,600.00	9,255.00	11,262.99	9,960.00	46.35	47.78	-141.71	489.70	1,274.77	898.20	832.59	65.61	13.691	
10,700.00	9,255.00	11,362.99	9,960.00	47.98	49.35	-141.71	489.68	1,374.77	898.22	830.54	67.68	13.272	
10,800.00	9,255.00	11,462.99	9,960.00	49.66	50.97	-141.71	489.67	1,474.77	898.24	828.42	69.82	12.865	
10,900.00	9,255.00	11,562.99	9,960.00	51.40	52.65	-141.71	489.65	1,574.77	898.25	826.22	72.04	12.470	
11,000.00	9,255.00	11,662.99	9,960.00	53.17	54.37	-141.71	489.63	1,674.77	898.27	823.95	74.32	12.087	
11,100.00	9,255.00	11,762.99	9,960.00	54.99	56.14	-141.70	489.61	1,774.77	898.29	821.63	76.65	11.719	
11,200.00	9,255.00	11,862.99	9,960.00	56.84	57.94	-141.70	489.59	1,874.77	898.30	819.26	79.04	11.365	
11,300.00	9,255.00	11,962.99	9,960.00	58.72	59.78	-141.70	489.57	1,974.77	898.32	816.84	81.48	11.024	
11,400.00	9,255.00	12,062.99	9,960.00	60.64	61.65	-141.70	489.55	2,074.77	898.34	814.37	83.97	10.699	
11,500.00	9,255.00	12,162.99	9,960.00	62.58	63.54	-141.70	489.53	2,174.77	898.36	811.86	86.49	10.386	
11,600.00	9,255.00	12,262.99	9,960.00	64.54	65.47	-141.70	489.51	2,274.77	898.37	809.32	89.06	10.088	
11,700.00	9,255.00	12,362.99	9,960.00	66.53	67.42	-141.70	489.49	2,374.77	898.39	806.74	91.65	9.802	
11,800.00	9,255.00	12,462.99	9,960.00	68.54	69.39	-141.69	489.47	2,474.77	898.41	804.13	94.28	9.529	
11,900.00	9,255.00	12,562.99	9,960.00	70.56	71.38	-141.69	489.45	2,574.77	898.43	801.49	96.93	9.268	
12,000.00	9,255.00	12,662.99	9,960.00	72.60	73.39	-141.69	489.43	2,674.77	898.44	798.83	99.62	9.019	
12,100.00	9,255.00	12,762.99	9,960.00	74.66	75.41	-141.69	489.41	2,774.77	898.46	796.14	102.32	8.781	
12,200.00	9,255.00	12,862.99	9,960.00	76.74	77.46	-141.69	489.39	2,874.77	898.48	793.43	105.05	8.553	
12,300.00	9,255.00	12,962.99	9,960.00	78.82	79.51	-141.69	489.38	2,974.77	898.49	790.69	107.80	8.335	
12,400.00	9,255.00	13,062.99	9,960.00	80.92	81.58	-141.69	489.36	3,074.77	898.51	787.94	110.57	8.126	
12,500.00	9,255.00	13,162.99	9,960.00	83.03	83.67	-141.69	489.34	3,174.77	898.53	785.17	113.36	7.926	
12,600.00	9,255.00	13,262.99	9,960.00	85.15	85.76	-141.68	489.32	3,274.77	898.55	782.38	116.16	7.735	
12,700.00	9,255.00	13,362.99	9,960.00	87.28	87.87	-141.68	489.30	3,374.77	898.56	779.58	118.98	7.552	
12,800.00	9,255.00	13,462.99	9,960.00	89.41	89.98	-141.68	489.28	3,474.77	898.58	776.77	121.82	7.377	
12,900.00	9,255.00	13,562.99	9,960.00	91.56	92.11	-141.68	489.26	3,574.77	898.60	773.94	124.66	7.208	
13,000.00	9,255.00	13,662.99	9,960.00	93.71	94.24	-141.68	489.24	3,674.77	898.62	771.09	127.52	7.047	
13,100.00	9,255.00	13,762.99	9,960.00	95.88	96.38	-141.68	489.22	3,774.77	898.63	768.24	130.39	6.892	
13,200.00	9,255.00	13,862.99	9,960.00	98.04	98.53	-141.68	489.20	3,874.77	898.65	765.38	133.27	6.743	
13,300.00	9,255.00	13,962.99	9,960.00	100.22	100.69	-141.67	489.18	3,974.77	898.67	762.50	136.17	6.600	
13,400.00	9,255.00	14,062.99	9,960.00	102.40	102.85	-141.67	489.16	4,074.77	898.69	759.62	139.07	6.462	
13,500.00	9,255.00	14,162.99	9,960.00	104.58	105.02	-141.67	489.14	4,174.77	898.70	756.72	141.98	6.330	
13,600.00	9,255.00	14,262.99	9,960.00	106.77	107.19	-141.67	489.12	4,274.77	898.72	753.82	144.90	6.202	
13,700.00	9,255.00	14,362.99	9,960.00	108.97	109.37	-141.67	489.10	4,374.77	898.74	750.91	147.83	6.080	
13,800.00	9,255.00	14,462.99	9,960.00	111.17	111.56	-141.67	489.08	4,474.77	898.75	747.99	150.76	5.961	
13,900.00	9,255.00	14,562.99	9,960.00	113.38	113.75	-141.67	489.07	4,574.77	898.77	745.07	153.71	5.847	
14,000.00	9,255.00	14,662.99	9,960.00	115.58	115.94	-141.66	489.05	4,674.77	898.79	742.13	156.65	5.737	
14,100.00	9,255.00	14,762.99	9,960.00	117.80	118.14	-141.66	489.03	4,774.77	898.81	739.20	159.61	5.631	
14,200.00	9,255.00	14,862.99	9,960.00	120.01	120.34	-141.66	489.01	4,874.77	898.82	736.25	162.57	5.529	
14,300.00	9,255.00	14,962.99	9,960.00	122.23	122.55	-141.66	488.99	4,974.77	898.84	733.30	165.54	5.430	
14,400.00	9,255.00	15,062.99	9,960.00	124.46	124.76	-141.66	488.97	5,074.77	898.86	730.35	168.51	5.334	
14,500.00	9,255.00	15,162.99	9,960.00	126.68	126.98	-141.66	488.95	5,174.77	898.88	727.39	171.49	5.242	
14,600.00	9,255.00	15,262.99	9,960.00	128.91	129.19	-141.66	488.93	5,274.77	898.89	724.42	174.47	5.152	
14,700.00	9,255.00	15,362.99	9,960.00	131.14	131.42	-141.65	488.91	5,374.77	898.91	721.45	177.46	5.065	
14,800.00	9,255.00	15,462.99	9,960.00	133.38	133.64	-141.65	488.89	5,474.77	898.93	718.48	180.45	4.982	
14,900.00	9,255.00	15,562.99	9,960.00	135.61	135.87	-141.65	488.87	5,574.77	898.94	715.50	183.45	4.900	
15,000.00	9,255.00	15,662.99	9,960.00	137.85	138.09	-141.65	488.85	5,674.77	898.96	712.51	186.45	4.822	
15,100.00	9,255.00	15,762.99	9,960.00	140.09	140.33	-141.65	488.83	5,774.77	898.98	709.53	189.45	4.745	
15,200.00	9,255.00	15,862.99	9,960.00	142.34	142.56	-141.65	488.81	5,874.77	899.00	706.54	192.46	4.671	
15,300.00	9,255.00	15,962.99	9,960.00	144.58	144.80	-141.65	488.79	5,974.77	899.01	703.54	195.47	4.599	
15,400.00	9,255.00	16,062.99	9,960.00	146.83	147.04	-141.64	488.78	6,074.77	899.03	700.55	198.49	4.529	

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 #205H
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:	#205H	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:
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	Warning
15,500.00	9,255.00	16,162.99	9,960.00	149.08	149.28	-141.64	488.76	6,174.77	899.05	697.55	201.50	4.462	
15,600.00	9,255.00	16,262.99	9,960.00	151.33	151.52	-141.64	488.74	6,274.77	899.07	694.54	204.52	4.396	
15,700.00	9,255.00	16,362.99	9,960.00	153.58	153.77	-141.64	488.72	6,374.77	899.08	691.54	207.55	4.332	
15,800.00	9,255.00	16,462.99	9,960.00	155.84	156.01	-141.64	488.70	6,474.77	899.10	688.53	210.57	4.270	
15,900.00	9,255.00	16,562.99	9,960.00	158.09	158.26	-141.64	488.68	6,574.77	899.12	685.51	213.60	4.209	
16,000.00	9,255.00	16,662.99	9,960.00	160.35	160.51	-141.64	488.66	6,674.77	899.14	682.50	216.64	4.150	
16,100.00	9,255.00	16,762.99	9,960.00	162.61	162.76	-141.63	488.64	6,774.77	899.15	679.48	219.67	4.093	
16,200.00	9,255.00	16,862.99	9,960.00	164.87	165.02	-141.63	488.62	6,874.77	899.17	676.46	222.71	4.037	
16,300.00	9,255.00	16,962.99	9,960.00	167.13	167.27	-141.63	488.60	6,974.77	899.19	673.44	225.75	3.983	
16,400.00	9,255.00	17,062.99	9,960.00	169.40	169.53	-141.63	488.58	7,074.77	899.20	670.42	228.79	3.930	
16,500.00	9,255.00	17,162.99	9,960.00	171.66	171.79	-141.63	488.56	7,174.77	899.22	667.39	231.83	3.879	
16,600.00	9,255.00	17,262.99	9,960.00	173.93	174.05	-141.63	488.54	7,274.77	899.24	664.36	234.88	3.829	
16,700.00	9,255.00	17,362.99	9,960.00	176.19	176.31	-141.63	488.52	7,374.77	899.26	661.33	237.92	3.780	
16,800.00	9,255.00	17,462.99	9,960.00	178.46	178.57	-141.63	488.50	7,474.77	899.27	658.30	240.97	3.732	
16,900.00	9,255.00	17,562.99	9,960.00	180.73	180.83	-141.62	488.48	7,574.77	899.29	655.27	244.03	3.685	
17,000.00	9,255.00	17,662.99	9,960.00	183.00	183.09	-141.62	488.47	7,674.77	899.31	652.23	247.08	3.640	
17,100.00	9,255.00	17,762.99	9,960.00	185.27	185.36	-141.62	488.45	7,774.77	899.33	649.19	250.13	3.595	
17,200.00	9,255.00	17,862.99	9,960.00	187.54	187.63	-141.62	488.43	7,874.77	899.34	646.15	253.19	3.552	
17,300.00	9,255.00	17,962.99	9,960.00	189.81	189.89	-141.62	488.41	7,974.77	899.36	643.11	256.25	3.510	
17,400.00	9,255.00	18,062.99	9,960.00	192.09	192.16	-141.62	488.39	8,074.77	899.38	640.07	259.31	3.468	
17,500.00	9,255.00	18,162.99	9,960.00	194.36	194.43	-141.62	488.37	8,174.77	899.39	637.02	262.37	3.428	
17,600.00	9,255.00	18,262.99	9,960.00	196.64	196.70	-141.61	488.35	8,274.77	899.41	633.98	265.43	3.388	
17,700.00	9,255.00	18,362.99	9,960.00	198.91	198.97	-141.61	488.33	8,374.77	899.43	630.93	268.50	3.350	
17,800.00	9,255.00	18,462.99	9,960.00	201.19	201.24	-141.61	488.31	8,474.77	899.45	627.88	271.56	3.312	
17,900.00	9,255.00	18,562.99	9,960.00	203.47	203.52	-141.61	488.29	8,574.77	899.46	624.83	274.63	3.275	
18,000.00	9,255.00	18,662.99	9,960.00	205.74	205.79	-141.61	488.27	8,674.77	899.48	621.78	277.70	3.239	
18,100.00	9,255.00	18,762.99	9,960.00	208.02	208.06	-141.61	488.25	8,774.77	899.50	618.73	280.77	3.204	
18,200.00	9,255.00	18,862.99	9,960.00	210.30	210.34	-141.61	488.23	8,874.77	899.52	615.68	283.84	3.169	
18,300.00	9,255.00	18,962.99	9,960.00	212.58	212.62	-141.60	488.21	8,974.77	899.53	612.62	286.91	3.135	
18,400.00	9,255.00	19,062.99	9,960.00	214.86	214.89	-141.60	488.19	9,074.77	899.55	609.57	289.98	3.102	
18,500.00	9,255.00	19,162.99	9,960.00	217.14	217.17	-141.60	488.18	9,174.77	899.57	606.51	293.06	3.070	
18,600.00	9,255.00	19,262.99	9,960.00	219.43	219.45	-141.60	488.16	9,274.77	899.59	603.45	296.13	3.038	
18,700.00	9,255.00	19,362.99	9,960.00	221.71	221.73	-141.60	488.14	9,374.77	899.60	600.39	299.21	3.007	
18,800.00	9,255.00	19,462.99	9,960.00	223.99	224.00	-141.60	488.12	9,474.77	899.62	597.33	302.29	2.976	
18,900.00	9,255.00	19,562.99	9,960.00	226.28	226.28	-141.60	488.10	9,574.77	899.64	594.27	305.37	2.946	
19,000.00	9,255.00	19,662.99	9,960.00	228.56	228.56	-141.59	488.08	9,674.77	899.65	591.21	308.45	2.917	
19,100.00	9,255.00	19,762.99	9,960.00	230.84	230.84	-141.59	488.06	9,774.77	899.67	588.15	311.53	2.888	
19,200.00	9,255.00	19,862.99	9,960.00	233.13	233.13	-141.59	488.04	9,874.77	899.69	585.08	314.61	2.860	
19,300.00	9,255.00	19,962.99	9,960.00	235.41	235.41	-141.59	488.02	9,974.77	899.71	582.02	317.69	2.832	
19,400.00	9,255.00	20,062.99	9,960.00	236.87	237.69	-141.59	488.00	10,074.77	899.72	579.54	320.18	2.810	
19,407.34	9,255.00	20,070.34	9,960.00	236.98	237.86	-141.59	488.00	10,082.11	899.73	579.36	320.37	2.808 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 #205H
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:	#205H	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

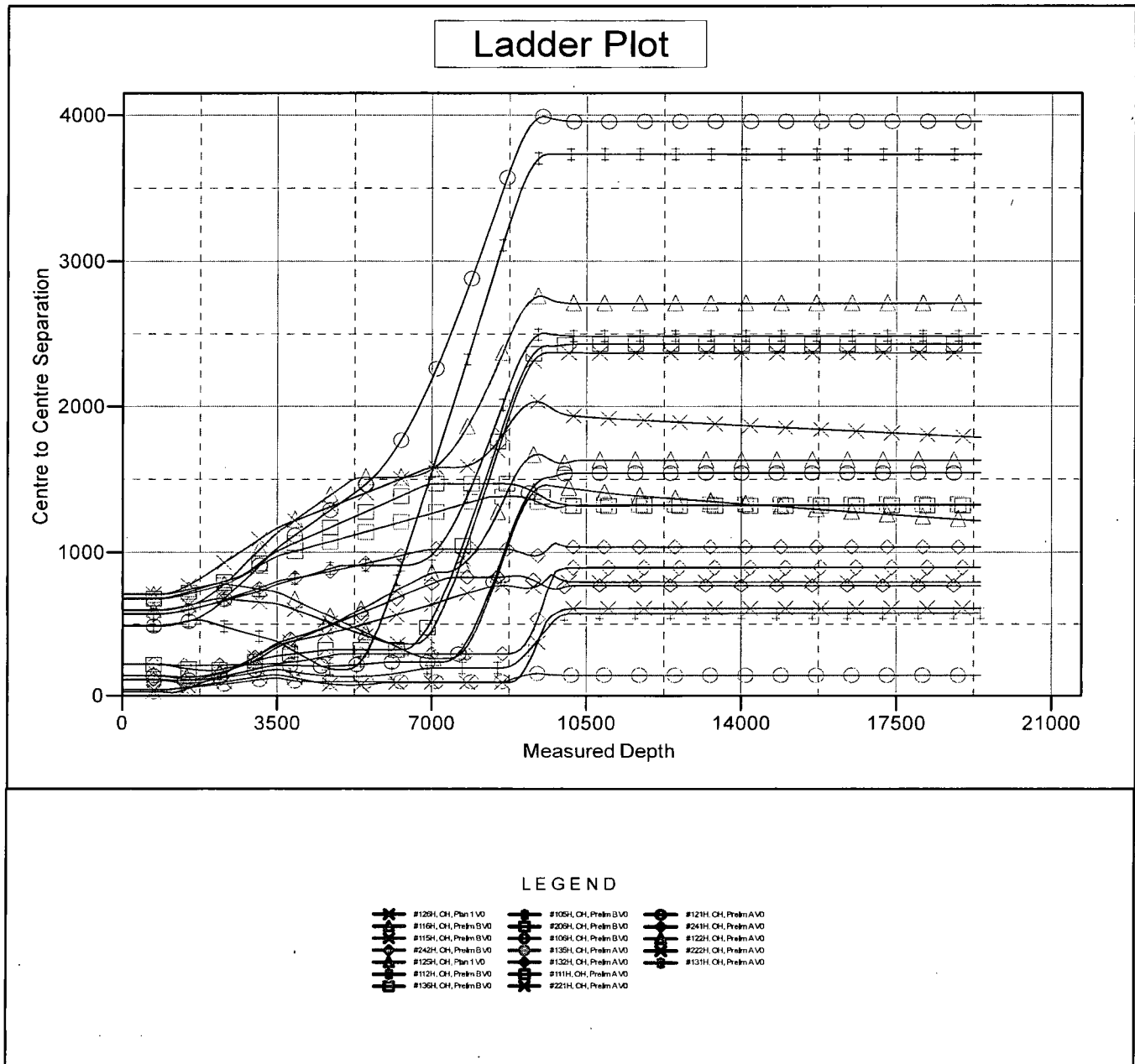
Reference Depths are relative to 3238 + 28.5 = KB @ 3266.50usft (Pat Coordinates are relative to: #205H)

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°



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 #205H
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:	#205H	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 Depths are relative to 3238 + 28.5 = KB @ 3266.50usft (Pat Coordinates are relative to: #205H)

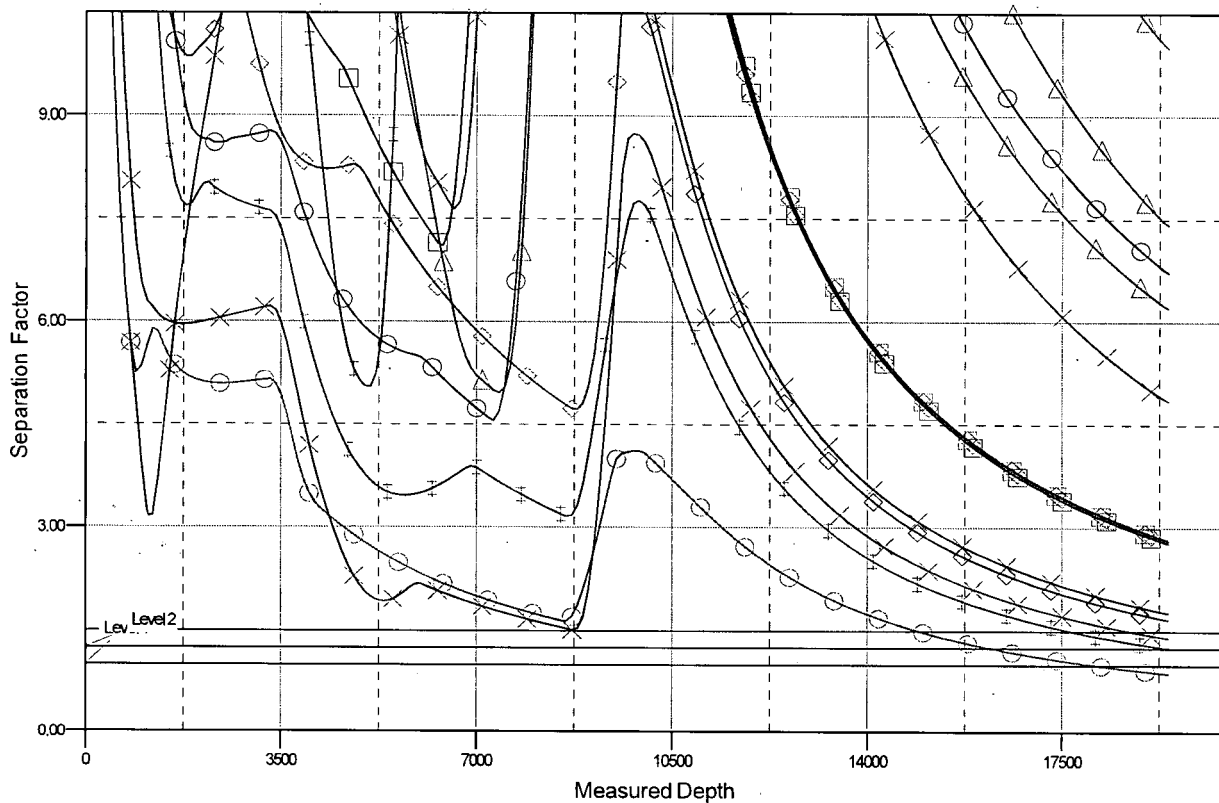
Offset Depths are relative to Offset Datum

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

Grid Convergence at Surface is: 0.11°

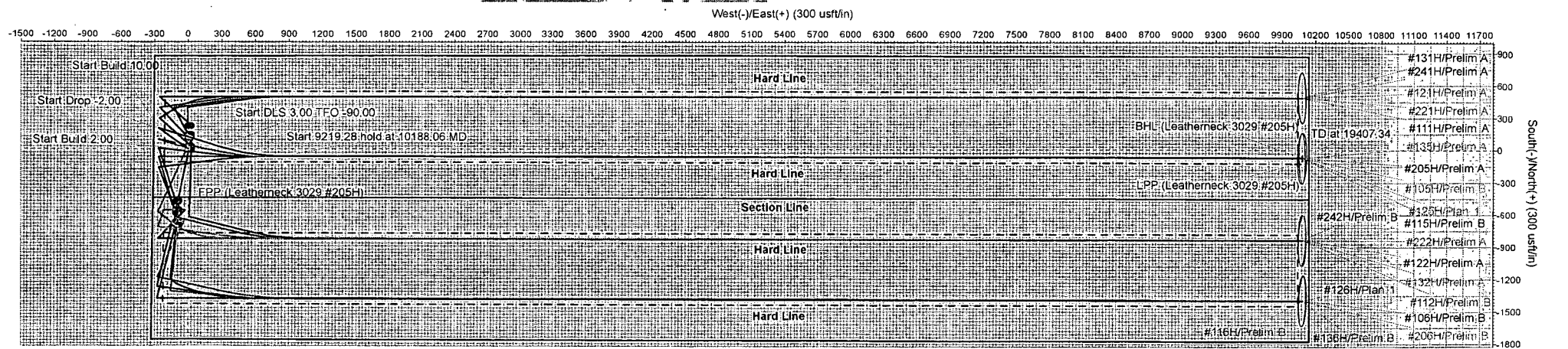
Separation Factor Plot



LEGEND

#126H, OH, Prelim 1 VO	#105H, OH, Prelim B VO	#121H, OH, Prelim A VO
#116H, OH, Prelim B VO	#209H, OH, Prelim B VO	#241H, OH, Prelim A VO
#115H, OH, Prelim B VO	#106H, OH, Prelim B VO	#122H, OH, Prelim A VO
#242H, OH, Prelim B VO	#136H, OH, Prelim A VO	#222H, OH, Prelim A VO
#125H, OH, Prelim 1 VO	#132H, OH, Prelim A VO	#131H, OH, Prelim A VO
#112H, OH, Prelim B VO	#111H, OH, Prelim A VO	
#136H, OH, Prelim B VO	#221H, OH, Prelim A VO	

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



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 shall contact BLM before starting contingency plan.

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 - 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

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: #205H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #205H
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

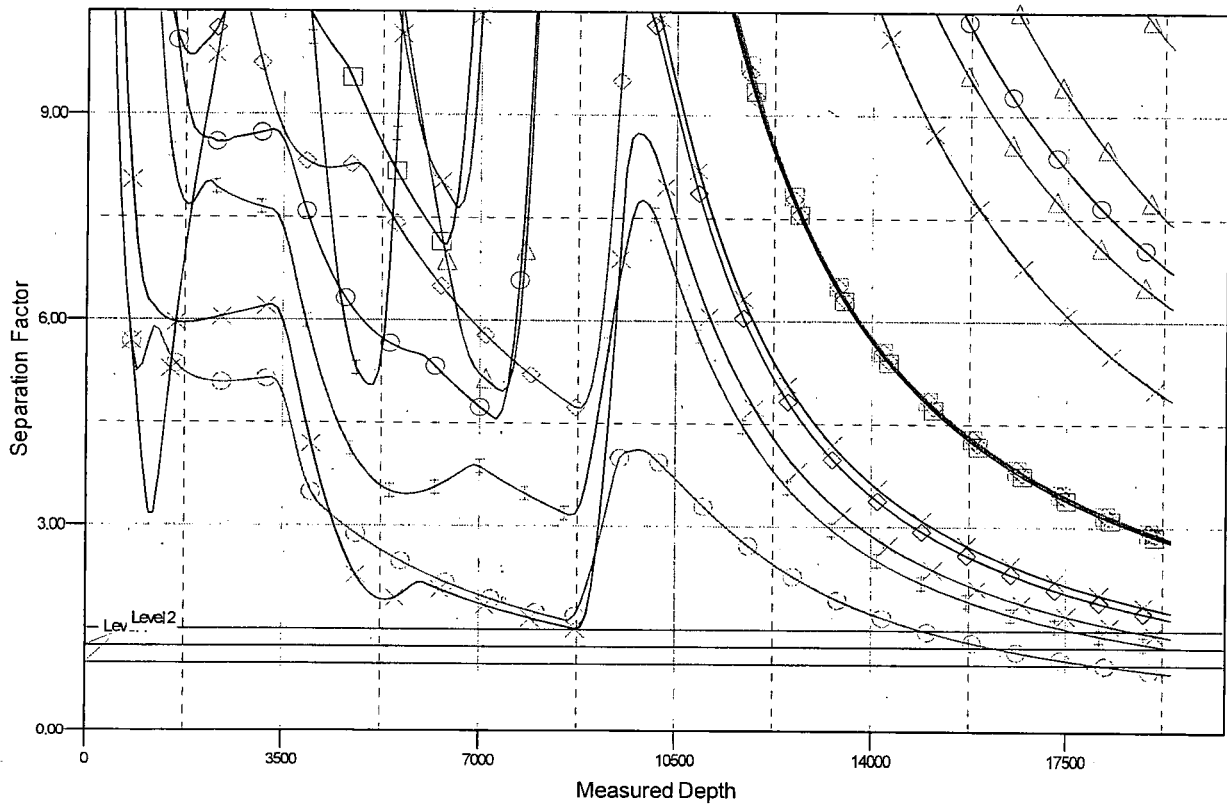
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Offset Depths are relative to Offset Datum

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°

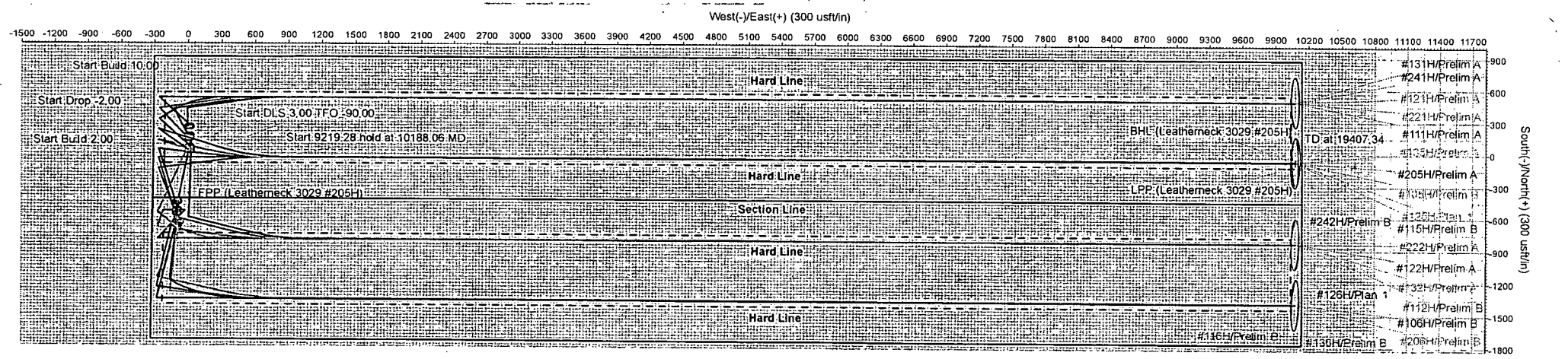
Separation Factor Plot



LEGEND

#128H, OH, Plan 1 VO	#105H, OH, Prelim BVO	#121H, OH, Prelim AVO
#115H, OH, Prelim BVO	#205H, OH, Prelim BVO	#241H, OH, Prelim AVO
#115H, OH, Prelim BVO	#105H, OH, Prelim BVO	#122H, OH, Prelim AVO
#242H, OH, Prelim BVO	#135H, OH, Prelim AVO	#222H, OH, Prelim AVO
#125H, OH, Plan 1 VO	#132H, OH, Prelim AVO	#131H, OH, Prelim AVO
#112H, OH, Prelim BVO	#111H, OH, Prelim AVO	
#135H, OH, Prelim BVO	#221H, OH, Prelim AVO	

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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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Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Other	☐ 4 String Area	☒ Capitan Reef	☐ WIPP
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Special Requirements	☐ Water Disposal	☐ COM	☐ Unit

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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