

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101
August 1, 2011
Permit 271887

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240		2. OGRID Number 228937
4. Property Code 314392		3. API Number 30-015-46269
5. Property Name PAUL 25 24S 28E RB		6. Well No. 111H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	25	24S	28E		359	N	307	W	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
A	25	24S	28E	A	330	N	60	E	Eddy

9. Pool Information

WILLOW LAKE;BONE SPRING	64450
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 2919
16. Multiple N	17. Proposed Depth 12500	18. Formation 1st Bone Spring Sand	19. Contractor	20. Spud Date 9/15/2019
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	400	270	0
Int1	12.25	9.625	40	2700	520	0
Prod	8.75	5.5	20	12400	1720	2400

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	3000	Cameron
Double Ram	10000	5000	Cameron
Pipe	10000	5000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☒ if applicable. Signature:	OIL CONSERVATION DIVISION
Printed Name: Electronically filed by Ava Monroe	Approved By: Raymond Podany
Title: Sr. Regulatory Analyst	Title: Geologist
Email Address: amonroe@matadorresources.com	Approved Date: 9/6/2019 Expiration Date: 9/6/2021
Date: 9/6/2019 Phone: 972-371-5218	Conditions of Approval Attached

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

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code 64450		³ Pool Name Willow Lake; Bone Spring					
⁴ Property Code		⁵ Property Name PAUL 25 24S 28E RB						⁶ Well Number 111H	
⁷ OGRID No. 228937		⁸ Operator Name MATADOR PRODUCTION COMPANY						⁹ Elevation 2919'	
¹⁰ Surface Location									
UL or lot no. D	Section 25	Township 24-S	Range 28-E	Lot Idn -	Feet from the 359'	North/South line NORTH	Feet from the 307'	East/West line WEST	County EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. A	Section 25	Township 24-S	Range 28-E	Lot Idn -	Feet from the 330'	North/South line NORTH	Feet from the 60'	East/West line EAST	County EDDY
¹² Dedicated Acres 160		¹³ Joint or Infill Yes		¹⁴ Consolidation Code		¹⁵ Order No.			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

				¹⁷OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Chris Carleton</i> 9/5/19 Signature Date Chris Carleton Printed Name ccarleton@matadorresources.com E-mail Address	
FIRST PERFORATION POINT NEW MEXICO EAST NAD 1927 X=588076 Y=434705 LAT.: N 32.1948004 LONG.: W 104.0486102 NAD 1983 X=629260 Y=434763 LAT.: N 32.1949227 LONG.: W 104.0491005				SURFACE LOCATION NEW MEXICO EAST NAD 1927 X=588283 Y=434675 LAT.: N 32.1947174 LONG.: W 104.0479417 NAD 1983 X=629466 Y=434734 LAT.: N 32.1948397 LONG.: W 104.0484320	
LAST PERFORATION POINT NEW MEXICO EAST NAD 1927 X=593240 Y=434695 LAT.: N 32.1947356 LONG.: W 104.0319148 NAD 1983 X=634424 Y=434754 LAT.: N 32.1948581 LONG.: W 104.0324044				BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1927 X=593280 Y=434695 LAT.: N 32.1947351 LONG.: W 104.0317855 NAD 1983 X=634464 Y=434754 LAT.: N 32.1948576 LONG.: W 104.0322751	
¹⁸SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief. 08/22/2019 Date of Survey Signature and Seal of Professional Surveyor <i>ANGEL M. BAEZA</i> ANGEL M. BAEZA NEW MEXICO 284118 PROFESSIONAL SURVEYOR Certificate Number					

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GAS CAPTURE PLAN

Date: 9/6/2019

☒ Original

Operator & OGRID No.: [228937] MATADOR PRODUCTION COMPANY

☐ Amended - Reason for
Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
PAUL 25 24S 28E RB #111H	30-015-46269	D-25-24S-28E	0359N 0307W	3500	Flared	

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to LONGWOOD MIDSTREAM DELAWARE, LLC and will be connected to LONGWOOD MIDSTREAM DELAWARE, LLC High Pressure gathering system located in Eddy County, New Mexico. It will require 6336' of pipeline to connect the facility to High Pressure gathering system. MATADOR PRODUCTION COMPANY provides (periodically) to LONGWOOD MIDSTREAM DELAWARE, LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, MATADOR PRODUCTION COMPANY and LONGWOOD MIDSTREAM DELAWARE, LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at LONGWOOD MIDSTREAM DELAWARE, LLC Processing Plant located in Sec. 31, Twn. 23S, Rng. 28E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on LONGWOOD MIDSTREAM DELAWARE, LLC system at that time. Based on current information, it is MATADOR PRODUCTION COMPANY's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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Form APD Comments

Permit 271887

PERMIT COMMENTS

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240		API Number: 30-015-46269
		Well: PAUL 25 24S 28E RB #111H

Created By	Comment	Comment Date
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Santa Fe, NM 87505

Form APD Conditions

Permit 271887

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240		API Number: 30-015-46269
		Well: PAUL 25 24S 28E RB #111H
OCD Reviewer	Condition	
rpodany	Will require a directional survey with the C-104	
rpodany	Cement is required to circulate on both surface and intermediate1 strings of casing	

Matador Resources

Eddy County, NM (NAD27)

Paul 25-24S-28E RB

#111H

OH

Plan: Plan 1

Standard Planning Report

05 September, 2019

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #111H
Company:	Matador Resources	TVD Reference:	2919 + 28.5 = KB @ 2947.50usft (Patt 297)
Project:	Eddy County, NM (NAD27)	MD Reference:	2919 + 28.5 = KB @ 2947.50usft (Patt 297)
Site:	Paul 25-24S-28E RB	North Reference:	Grid
Well:	#111H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

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		Paul 25-24S-28E RB			
Site Position:		Northing:	434,675.00 usft	Latitude:	32.194717
From:	Map	Easting:	588,283.00 usft	Longitude:	-104.047941
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.15

Well	#111H					
Well Position	+N-S	0.00 usft	Northing:	434,675.00 usft	Latitude:	32.194717
	+E-W	0.00 usft	Easting:	588,283.00 usft	Longitude:	-104.047941
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	2,919.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	9/17/2019	7.02	59.92	47,858.30

Design	Plan 1				
Audit Notes:					
Version:		Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	90.11	

Plan Survey Tool Program	Date	9/5/2019			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	12,387.55	Plan 1 (OH)	MWD+HDGM	
				OWSG MWD + HRGM	

Pro Directional Planning Report

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Project:	Eddy County, NM (NAD27)	MD Reference:	2919 + 28.5 = KB @ 2947.50usft (Patt 297)
Site:	Paul 25-24S-28E RB	North Reference:	Grid
Well:	#111H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

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	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,581.23	5.81	246.83	3,580.23	-11.59	-27.08	1.00	1.00	0.00	246.83	
5,759.96	5.81	246.83	5,747.77	-98.41	-229.92	0.00	0.00	0.00	0.00	
6,341.19	0.00	0.00	6,328.00	-110.00	-257.00	1.00	-1.00	0.00	180.00	
6,760.49	0.00	0.00	6,747.30	-110.00	-257.00	0.00	0.00	0.00	0.00	
7,650.49	89.00	83.10	7,320.17	-42.37	301.88	10.00	10.00	0.00	83.10	
8,000.96	89.00	90.11	7,326.30	-21.63	651.46	2.00	0.00	2.00	90.07	
10,349.82	89.00	90.11	7,367.33	-26.15	2,999.96	0.00	0.00	0.00	0.00	
10,374.97	88.50	90.11	7,367.88	-26.20	3,025.10	2.00	-2.00	0.00	180.00	
12,347.55	88.50	90.11	7,419.66	-30.00	4,997.00	0.00	0.00	0.00	0.00	BHL (Paul #111H)
12,387.55	88.50	90.11	7,420.71	-30.08	5,036.99	0.00	0.00	0.00	0.00	

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #111H
Company:	Matador Resources	TVD Reference:	2919 + 28.5 = KB @ 2947.50usft (Patt 297)
Project:	Eddy County, NM (NAD27)	MD Reference:	2919 + 28.5 = KB @ 2947.50usft (Patt 297)
Site:	Paul 25-24S-28E RB	North Reference:	Grid
Well:	#111H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

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
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
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
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,618.53	0.00	0.00	2,618.53	0.00	0.00	0.00	0.00	0.00	0.00
Z (G30:CS14-CSB)									
2,664.50	0.00	0.00	2,664.50	0.00	0.00	0.00	0.00	0.00	0.00
Z (G26: Bell Cyn.)									
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.00									
3,100.00	1.00	246.83	3,099.99	-0.34	-0.80	-0.80	1.00	1.00	0.00
3,200.00	2.00	246.83	3,199.96	-1.37	-3.21	-3.21	1.00	1.00	0.00
3,300.00	3.00	246.83	3,299.86	-3.09	-7.22	-7.21	1.00	1.00	0.00
3,400.00	4.00	246.83	3,399.68	-5.49	-12.83	-12.82	1.00	1.00	0.00
3,478.53	4.79	246.83	3,477.97	-7.86	-18.36	-18.35	1.00	1.00	0.00
Z (G13: Cherry Cyn.)									
3,500.00	5.00	246.83	3,499.37	-8.58	-20.04	-20.03	1.00	1.00	0.00
3,581.23	5.81	246.83	3,580.23	-11.59	-27.08	-27.06	1.00	1.00	0.00
3,600.00	5.81	246.83	3,598.91	-12.34	-28.83	-28.80	0.00	0.00	0.00
3,700.00	5.81	246.83	3,698.39	-16.32	-38.14	-38.11	0.00	0.00	0.00
3,800.00	5.81	246.83	3,797.88	-20.31	-47.45	-47.41	0.00	0.00	0.00
3,900.00	5.81	246.83	3,897.36	-24.29	-56.76	-56.71	0.00	0.00	0.00
4,000.00	5.81	246.83	3,996.85	-28.28	-66.07	-66.01	0.00	0.00	0.00
4,100.00	5.81	246.83	4,096.34	-32.26	-75.38	-75.32	0.00	0.00	0.00
4,200.00	5.81	246.83	4,195.82	-36.25	-84.69	-84.62	0.00	0.00	0.00
4,300.00	5.81	246.83	4,295.31	-40.23	-94.00	-93.92	0.00	0.00	0.00
4,400.00	5.81	246.83	4,394.79	-44.22	-103.31	-103.22	0.00	0.00	0.00
4,500.00	5.81	246.83	4,494.28	-48.20	-112.62	-112.52	0.00	0.00	0.00

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #111H
Company:	Matador Resources	TVD Reference:	2919 + 28.5 = KB @ 2947.50usft (Patt 297)
Project:	Eddy County, NM (NAD27)	MD Reference:	2919 + 28.5 = KB @ 2947.50usft (Patt 297)
Site:	Paul 25-24S-28E RB	North Reference:	Grid
Well:	#111H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,600.00	5.81	246.83	4,593.77	-52.19	-121.93	-121.83	0.00	0.00	0.00
4,700.00	5.81	246.83	4,693.25	-56.17	-131.24	-131.13	0.00	0.00	0.00
4,776.21	5.81	246.83	4,769.07	-59.21	-138.33	-138.22	0.00	0.00	0.00
Z (G7: Brushy Cyn.)									
4,800.00	5.81	246.83	4,792.74	-60.16	-140.55	-140.43	0.00	0.00	0.00
4,900.00	5.81	246.83	4,892.22	-64.14	-149.86	-149.73	0.00	0.00	0.00
5,000.00	5.81	246.83	4,991.71	-68.13	-159.17	-159.04	0.00	0.00	0.00
5,100.00	5.81	246.83	5,091.20	-72.11	-168.48	-168.34	0.00	0.00	0.00
5,200.00	5.81	246.83	5,190.68	-76.10	-177.79	-177.64	0.00	0.00	0.00
5,300.00	5.81	246.83	5,290.17	-80.08	-187.10	-186.94	0.00	0.00	0.00
5,400.00	5.81	246.83	5,389.65	-84.07	-196.41	-196.25	0.00	0.00	0.00
5,500.00	5.81	246.83	5,489.14	-88.05	-205.72	-205.55	0.00	0.00	0.00
5,600.00	5.81	246.83	5,588.63	-92.04	-215.03	-214.85	0.00	0.00	0.00
5,700.00	5.81	246.83	5,688.11	-96.02	-224.34	-224.15	0.00	0.00	0.00
5,759.96	5.81	246.83	5,747.76	-98.41	-229.92	-229.73	0.00	0.00	0.00
Start Drop -1.00									
5,800.00	5.41	246.83	5,787.61	-99.95	-233.52	-233.33	1.00	-1.00	0.00
5,900.00	4.41	246.83	5,887.24	-103.32	-241.39	-241.19	1.00	-1.00	0.00
6,000.00	3.41	246.83	5,987.01	-106.00	-247.66	-247.46	1.00	-1.00	0.00
6,100.00	2.41	246.83	6,086.88	-108.00	-252.33	-252.13	1.00	-1.00	0.00
6,200.00	1.41	246.83	6,186.82	-109.32	-255.40	-255.19	1.00	-1.00	0.00
6,300.00	0.41	246.83	6,286.81	-109.94	-256.86	-256.65	1.00	-1.00	0.00
6,341.19	0.00	0.00	6,328.00	-110.00	-257.00	-256.79	1.00	-1.00	0.00
6,341.35	0.00	0.00	6,328.16	-110.00	-257.00	-256.79	0.00	0.00	0.00
Z (G4: BSG (CS9))									
6,400.00	0.00	0.00	6,386.81	-110.00	-257.00	-256.79	0.00	0.00	0.00
6,500.00	0.00	0.00	6,486.81	-110.00	-257.00	-256.79	0.00	0.00	0.00
6,600.00	0.00	0.00	6,586.81	-110.00	-257.00	-256.79	0.00	0.00	0.00
6,700.00	0.00	0.00	6,686.81	-110.00	-257.00	-256.79	0.00	0.00	0.00
6,760.49	0.00	0.00	6,747.30	-110.00	-257.00	-256.79	0.00	0.00	0.00
KOP: Build 10.00									
6,800.00	3.95	83.10	6,786.78	-109.84	-255.65	-255.44	10.00	10.00	0.00
6,850.00	8.95	83.10	6,836.44	-109.16	-250.07	-249.86	10.00	10.00	0.00
6,900.00	13.95	83.10	6,885.43	-107.97	-240.22	-240.01	10.00	10.00	0.00
6,950.00	18.95	83.10	6,933.37	-106.27	-226.17	-225.97	10.00	10.00	0.00
7,000.00	23.95	83.10	6,979.89	-104.07	-208.02	-207.82	10.00	10.00	0.00
7,050.00	28.95	83.10	7,024.64	-101.40	-185.92	-185.73	10.00	10.00	0.00
7,091.31	33.08	83.10	7,060.04	-98.84	-164.79	-164.60	10.00	10.00	0.00
Z (L5.3: FBSC)									
7,100.00	33.95	83.10	7,067.28	-98.27	-160.03	-159.84	10.00	10.00	0.00
7,150.00	38.95	83.10	7,107.49	-94.70	-130.55	-130.37	10.00	10.00	0.00
7,200.00	43.95	83.10	7,144.95	-90.72	-97.70	-97.52	10.00	10.00	0.00
7,250.00	48.95	83.10	7,179.39	-86.37	-61.73	-61.57	10.00	10.00	0.00
7,300.00	53.95	83.10	7,210.54	-81.67	-22.93	-22.77	10.00	10.00	0.00
7,332.31	57.18	83.10	7,228.81	-78.47	3.53	3.68	10.00	10.00	0.00
Z (L5.1: FBSC)									
7,350.00	58.95	83.10	7,238.17	-76.67	18.43	18.58	10.00	10.00	0.00
7,400.00	63.95	83.10	7,262.05	-71.39	62.02	62.16	10.00	10.00	0.00
7,450.00	68.95	83.10	7,282.03	-65.89	107.51	107.63	10.00	10.00	0.00
7,500.00	73.95	83.10	7,297.93	-60.20	154.55	154.67	10.00	10.00	0.00
7,550.00	78.95	83.10	7,309.64	-54.36	202.79	202.90	10.00	10.00	0.00
7,600.00	83.95	83.10	7,317.07	-48.42	251.86	251.96	10.00	10.00	0.00
7,650.49	89.00	83.10	7,320.17	-42.37	301.88	301.96	10.00	10.00	0.00

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #111H
Company:	Matador Resources	TVD Reference:	2919 + 28.5 = KB @ 2947.50usft (Patt 297)
Project:	Eddy County, NM (NAD27)	MD Reference:	2919 + 28.5 = KB @ 2947.50usft (Patt 297)
Site:	Paul 25-24S-28E RB	North Reference:	Grid
Well:	#111H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

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)
Land: DLS 2.00 TFO 90.07									
7,700.00	89.00	84.09	7,321.04	-36.85	351.07	351.14	2.00	0.00	2.00
7,800.00	89.00	86.09	7,322.78	-28.29	450.68	450.74	2.00	0.00	2.00
7,900.00	89.00	88.09	7,324.53	-23.22	550.53	550.58	2.00	0.00	2.00
8,000.96	89.00	90.11	7,326.30	-21.63	651.46	651.50	2.00	0.00	2.00
8,100.00	89.00	90.11	7,328.03	-21.82	750.49	750.53	0.00	0.00	0.00
8,200.00	89.00	90.11	7,329.78	-22.01	850.47	850.51	0.00	0.00	0.00
8,300.00	89.00	90.11	7,331.52	-22.21	950.45	950.50	0.00	0.00	0.00
8,400.00	89.00	90.11	7,333.27	-22.40	1,050.44	1,050.48	0.00	0.00	0.00
8,500.00	89.00	90.11	7,335.02	-22.59	1,150.42	1,150.46	0.00	0.00	0.00
8,600.00	89.00	90.11	7,336.76	-22.78	1,250.41	1,250.45	0.00	0.00	0.00
8,700.00	89.00	90.11	7,338.51	-22.98	1,350.39	1,350.43	0.00	0.00	0.00
8,800.00	89.00	90.11	7,340.26	-23.17	1,450.38	1,450.42	0.00	0.00	0.00
8,900.00	89.00	90.11	7,342.01	-23.36	1,550.36	1,550.40	0.00	0.00	0.00
9,000.00	89.00	90.11	7,343.75	-23.55	1,650.35	1,650.39	0.00	0.00	0.00
9,100.00	89.00	90.11	7,345.50	-23.75	1,750.33	1,750.37	0.00	0.00	0.00
9,200.00	89.00	90.11	7,347.25	-23.94	1,850.32	1,850.36	0.00	0.00	0.00
9,300.00	89.00	90.11	7,348.99	-24.13	1,950.30	1,950.34	0.00	0.00	0.00
9,400.00	89.00	90.11	7,350.74	-24.32	2,050.28	2,050.33	0.00	0.00	0.00
9,500.00	89.00	90.11	7,352.49	-24.52	2,150.27	2,150.31	0.00	0.00	0.00
9,600.00	89.00	90.11	7,354.23	-24.71	2,250.25	2,250.30	0.00	0.00	0.00
9,700.00	89.00	90.11	7,355.98	-24.90	2,350.24	2,350.28	0.00	0.00	0.00
9,800.00	89.00	90.11	7,357.73	-25.10	2,450.22	2,450.27	0.00	0.00	0.00
9,900.00	89.00	90.11	7,359.48	-25.29	2,550.21	2,550.25	0.00	0.00	0.00
10,000.00	89.00	90.11	7,361.22	-25.48	2,650.19	2,650.24	0.00	0.00	0.00
10,100.00	89.00	90.11	7,362.97	-25.67	2,750.18	2,750.22	0.00	0.00	0.00
10,200.00	89.00	90.11	7,364.72	-25.87	2,850.16	2,850.21	0.00	0.00	0.00
10,300.00	89.00	90.11	7,366.46	-26.06	2,950.15	2,950.19	0.00	0.00	0.00
10,349.82	89.00	90.11	7,367.33	-26.15	2,999.96	3,000.00	0.00	0.00	0.00
Start DLS 2.00 TFO 180.00									
10,374.97	88.50	90.11	7,367.88	-26.20	3,025.10	3,025.14	2.00	-2.00	0.00
10,400.00	88.50	90.11	7,368.54	-26.25	3,050.12	3,050.17	0.00	0.00	0.00
10,500.00	88.50	90.11	7,371.17	-26.44	3,150.09	3,150.13	0.00	0.00	0.00
10,600.00	88.50	90.11	7,373.79	-26.64	3,250.05	3,250.10	0.00	0.00	0.00
10,700.00	88.50	90.11	7,376.42	-26.83	3,350.02	3,350.06	0.00	0.00	0.00
10,800.00	88.50	90.11	7,379.04	-27.02	3,449.98	3,450.03	0.00	0.00	0.00
10,900.00	88.50	90.11	7,381.66	-27.21	3,549.95	3,550.00	0.00	0.00	0.00
11,000.00	88.50	90.11	7,384.29	-27.41	3,649.92	3,649.96	0.00	0.00	0.00
11,100.00	88.50	90.11	7,386.91	-27.60	3,749.88	3,749.93	0.00	0.00	0.00
11,200.00	88.50	90.11	7,389.54	-27.79	3,849.85	3,849.89	0.00	0.00	0.00
11,300.00	88.50	90.11	7,392.16	-27.98	3,949.81	3,949.86	0.00	0.00	0.00
11,400.00	88.50	90.11	7,394.79	-28.18	4,049.78	4,049.82	0.00	0.00	0.00
11,500.00	88.50	90.11	7,397.41	-28.37	4,149.74	4,149.79	0.00	0.00	0.00
11,600.00	88.50	90.11	7,400.04	-28.56	4,249.71	4,249.75	0.00	0.00	0.00
11,700.00	88.50	90.11	7,402.66	-28.75	4,349.67	4,349.72	0.00	0.00	0.00
11,800.00	88.50	90.11	7,405.29	-28.95	4,449.64	4,449.69	0.00	0.00	0.00
11,900.00	88.50	90.11	7,407.91	-29.14	4,549.60	4,549.65	0.00	0.00	0.00
12,000.00	88.50	90.11	7,410.54	-29.33	4,649.57	4,649.62	0.00	0.00	0.00
12,100.00	88.50	90.11	7,413.16	-29.52	4,749.53	4,749.58	0.00	0.00	0.00
12,200.00	88.50	90.11	7,415.78	-29.72	4,849.50	4,849.55	0.00	0.00	0.00
12,300.00	88.50	90.11	7,418.41	-29.91	4,949.47	4,949.51	0.00	0.00	0.00
12,347.55	88.50	90.11	7,419.66	-30.00	4,997.00	4,997.05	0.00	0.00	0.00
12,387.55	88.50	90.11	7,420.71	-30.08	5,036.98	5,037.03	0.00	0.00	0.00

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #111H
Company:	Matador Resources	TVD Reference:	2919 + 28.5 = KB @ 2947.50usft (Patt 297)
Project:	Eddy County, NM (NAD27)	MD Reference:	2919 + 28.5 = KB @ 2947.50usft (Patt 297)
Site:	Paul 25-24S-28E RB	North Reference:	Grid
Well:	#111H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

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)
TD at 12387.55									

Design Targets

Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LPP (Paul #111H)	- plan misses target center by 4957.09usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)	0.00	0.00	0.00	-30.00	4,957.00	434,645.00	593,240.00	32.194597	-104.031917
FPP (Paul #111H)	- plan misses target center by 207.96usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)	0.00	0.00	0.00	-20.00	-207.00	434,655.00	588,076.00	32.194663	-104.048610
3000' VS (Paul #111H)	- plan misses target center by 0.03usft at 10349.82usft MD (7367.33 TVD, -26.15 N, 2999.96 E)	0.00	0.00	7,367.37	-26.15	2,999.96	434,648.85	591,282.96	32.194623	-104.038243
BHL (Paul #111H)	- plan hits target center	0.00	0.00	7,419.66	-30.00	4,997.00	434,645.00	593,280.00	32.194597	-104.031787

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,618.53	2,618.53	Z (G30:CS14-CSB)			
2,664.50	2,664.50	Z (G26: Bell Cyn.)			
3,478.53	3,477.97	Z (G13: Cherry Cyn.)			
4,776.21	4,769.07	Z (G7: Brushy Cyn.)			
6,341.35	6,328.16	Z (G4: BSGI (CS9))			
7,091.31	7,060.04	Z (L5.3: FBSC)			
7,332.31	7,228.81	Z (L5.1: FBSC)			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates	Comment
3,000.00	3,000.00	+N/-S (usft) 0.00	Start Build 1.00
5,759.96	5,747.77	+E/-W (usft) -11.59	Start Drop -1.00
6,760.49	6,747.30	-98.41	KOP: Build 10.00
7,650.49	7,320.17	-110.00	Land: DLS 2.00 TFO 90.07
10,349.82	7,367.33	-110.00	Start DLS 2.00 TFO 180.00
12,387.55	7,420.71	-42.37	TD at 12387.55