

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 274794

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 322998		3. API Number 30-025-46514
5. Property Name BRAD LUMMIS COM		6. Well No. 122H

7. Surface Location

UL - Lot C	Section 23	Township 24S	Range 34E	Lot Idn C	Feet From 295	N/S Line N	Feet From 2233	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot N	Section 23	Township 24S	Range 34E	Lot Idn N	Feet From 100	N/S Line S	Feet From 1980	E/W Line W	County Lea
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9. Pool Information

RED HILLS;BONE SPRING, NORTH	96434
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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 3476
16. Multiple N	17. Proposed Depth 16300	18. Formation Bone Spring	19. Contractor	20. Spud Date 11/28/2019
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	1150	980	0
Int1	12.25	9.625	40	5400	1815	0
Prod	8.75	5.5	20	16250	2400	4400

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.		OIL CONSERVATION DIVISION	
Signature:			
Printed Name:	Electronically filed by Ava Monroe	Approved By:	Paul F Kautz
Title:	Sr. Regulatory Analyst	Title:	Geologist
Email Address:	amonroe@matadorresources.com	Approved Date:	11/18/2019
Date:	11/18/2019	Phone:	972-371-5218
		Expiration Date: 11/18/2021	
		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 96434	³ Pool Name Red Hills; Bone Spring, North
⁴ Property Code 322998	⁵ Property Name BRAD LUMMIS COM		⁶ Well Number 122H
⁷ GRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY		⁹ Elevation 3476'

¹⁰Surface Location

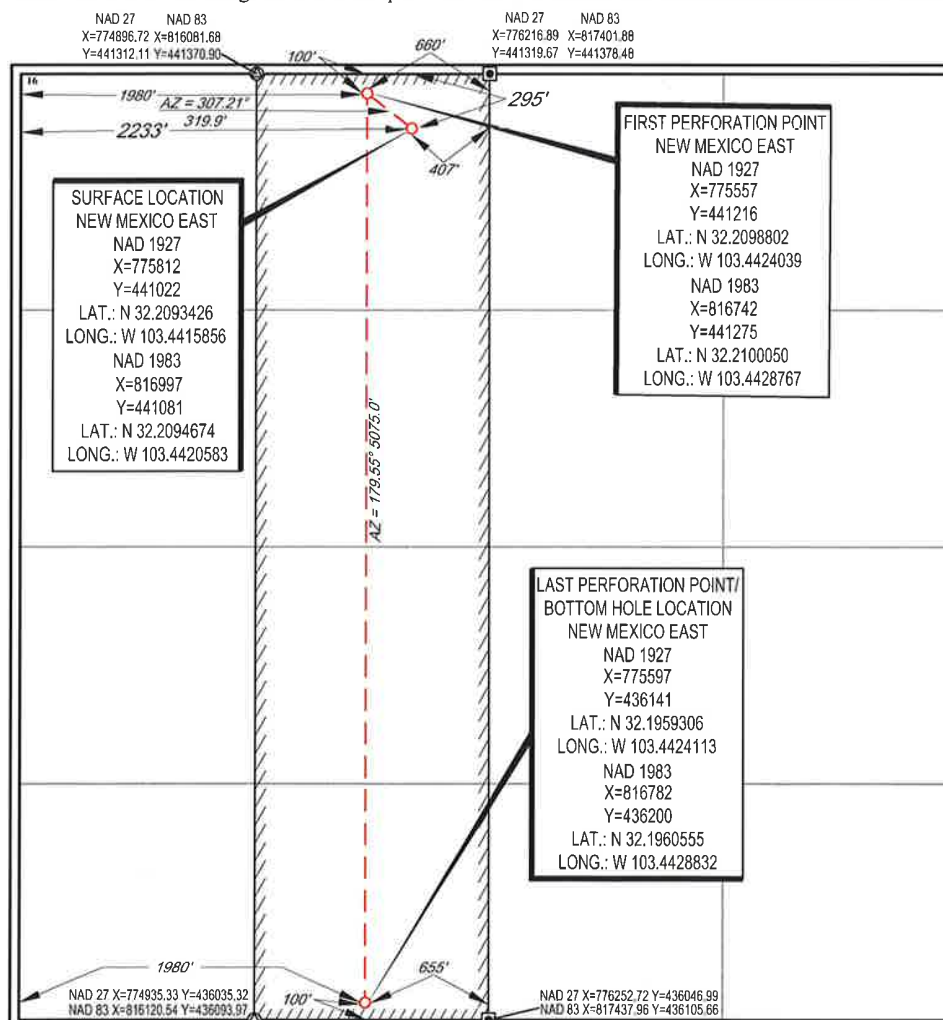
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	23	24-S	34-E	-	295'	NORTH	2233'	WEST	LEA

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	23	24-S	34-E	-	100'	SOUTH	1980'	WEST	LEA

¹² Dedicated Acres 160	¹³ Joint or Infill Y	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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.

Chris Carleton 11/14/19
Signature Date

Chris Carleton

Printed Name

ccarleton@matadorresources.com

E-mail Address

¹⁸SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

11/07/2019

Date of Survey
Signature and Seal of Professional Surveyor

ANGEL M. BAEZA
NEW MEXICO
PROFESSIONAL SURVEYOR
25116
Certificate Number

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GAS CAPTURE PLAN

Date: 11/18/2019

☒ 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
BRAD LUMMIS COM #122H	30-025-46514	C-23-24S-34E	0295N 2233W	1	Flared	+/- 1000 MCF/D Expected

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 LUCID ENERGY DELAWARE, LLC and will be connected to LUCID ENERGY DELAWARE, LLC Low Pressure gathering system located in Lea County, New Mexico. It will require 3000' of pipeline to connect the facility to Low Pressure gathering system. MATADOR PRODUCTION COMPANY provides (periodically) to LUCID ENERGY 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 LUCID ENERGY DELAWARE, LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at LUCID ENERGY DELAWARE, LLC Processing Plant located in Sec. 13, Twn. 24S, Rng. 33E, Lea 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 LUCID ENERGY 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 274794

PERMIT COMMENTS

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	API Number: 30-025-46514
	Well: BRAD LUMMIS COM #122H

Created By	Comment	Comment Date
pkautz	REJECTED When you attach more than 1 Directional Drill Plan, we are unable to review your Directional Drill Plan. 1) Submit only one Directional Drill Plan as a PDF File. 2) DO NOT SUBMIT AN ANTICOLLISION PLAN. We do not want or need it.	11/18/2019
pkautz	When you attach more than 1 Directional Drill Plan, we are unable to review your Directional Drill Plan. 1) Submit only one Directional Drill Plan as a PDF File. 2) DO NOT SUBMIT AN ANTICOLLISION PLAN. We do not want or need it.	11/18/2019
pkautz	Fee Cancellation - Timed out operator will resubmit	11/18/2019

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Form APD Conditions

Permit 274794

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	API Number: 30-025-46514
	Well: BRAD LUMMIS COM #122H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	1)- The Operator is to notify NMOC by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD. If an APD expires and if site construction has occurred, site remediation is required.
pkautz	Stage Tool 1) Must notify OCD Hobbs Office prior to running Stage Tool at 5753703186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.

Matador Resources

Lea County, NM (NAD27)

Brad Lummis Fed Com

#122H

OH

Plan: Brad L. FC #122H Prelim B

Standard Planning Report

14 November, 2019

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #122H
Company:	Matador Resources	TVD Reference:	3476 + 28.5 = KB @ 3504.50usft (Patt 256)
Project:	Lea County, NM (NAD27)	MD Reference:	3476 + 28.5 = KB @ 3504.50usft (Patt 256)
Site:	Brad Lummis Fed Com	North Reference:	Grid
Well:	#122H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Brad L. FC #122H Prelim B		

Project	Lea 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	Brad Lummis Fed Com				
Site Position:		Northing:	440,907.00 usft	Latitude:	32.209066
From:	Map	Easting:	774,006.00 usft	Longitude:	-103.447427
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.47 °

Well	#122H					
Well Position	+N/-S	115.00 usft	Northing:	441,022.00 usft	Latitude:	32.209342
	+E/-W	1,806.00 usft	Easting:	775,812.00 usft	Longitude:	-103.441586
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,476.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	11/27/2019	6.58	59.85	47,842.90

Design	Brad L. FC #122H Prelim B			
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	179.55

Plan Survey Tool Program	Date	11/14/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	16,197.55	Brad L. FC #122H Prelim B (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	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,092.65	5.93	312.10	3,091.60	20.53	-22.72	1.00	1.00	0.00	312.10	
6,122.85	5.93	312.10	6,105.60	230.31	-254.85	0.00	0.00	0.00	0.00	
6,517.96	0.00	0.00	6,500.00	244.00	-270.00	1.50	-1.50	0.00	180.00	
10,745.06	0.00	0.00	10,727.10	244.00	-270.00	0.00	0.00	0.00	0.00	
11,645.06	90.00	178.15	11,300.06	-328.66	-251.50	10.00	10.00	0.00	178.15	
11,715.13	90.00	179.55	11,300.06	-398.71	-250.10	2.00	0.00	2.00	89.97	
16,197.55	90.00	179.55	11,300.00	-4,881.00	-215.00	0.00	0.00	0.00	0.00	BHL (Brad L. #122H)

Pro Directional Planning Report

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Project:	Lea County, NM (NAD27)	MD Reference:	3476 + 28.5 = KB @ 3504.50usft (Patt 256)
Site:	Brad Lummis Fed Com	North Reference:	Grid
Well:	#122H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Brad L. FC #122H Prelim B		

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
Start Build 1.00									
2,600.00	1.00	312.10	2,599.99	0.59	-0.65	-0.59	1.00	1.00	0.00
2,700.00	2.00	312.10	2,699.96	2.34	-2.59	-2.36	1.00	1.00	0.00
2,800.00	3.00	312.10	2,799.86	5.26	-5.83	-5.31	1.00	1.00	0.00
2,900.00	4.00	312.10	2,899.68	9.36	-10.36	-9.44	1.00	1.00	0.00
3,000.00	5.00	312.10	2,999.37	14.62	-16.18	-14.74	1.00	1.00	0.00
3,092.65	5.93	312.10	3,091.60	20.53	-22.72	-20.71	1.00	1.00	0.00
3,100.00	5.93	312.10	3,098.90	21.04	-23.28	-21.22	0.00	0.00	0.00
3,200.00	5.93	312.10	3,198.37	27.96	-30.94	-28.21	0.00	0.00	0.00
3,300.00	5.93	312.10	3,297.84	34.89	-38.60	-35.19	0.00	0.00	0.00
3,400.00	5.93	312.10	3,397.30	41.81	-46.27	-42.17	0.00	0.00	0.00
3,500.00	5.93	312.10	3,496.77	48.73	-53.93	-49.16	0.00	0.00	0.00
3,600.00	5.93	312.10	3,596.23	55.66	-61.59	-56.14	0.00	0.00	0.00
3,700.00	5.93	312.10	3,695.70	62.58	-69.25	-63.12	0.00	0.00	0.00
3,800.00	5.93	312.10	3,795.16	69.50	-76.91	-70.10	0.00	0.00	0.00
3,900.00	5.93	312.10	3,894.63	76.42	-84.57	-77.09	0.00	0.00	0.00
4,000.00	5.93	312.10	3,994.09	83.35	-92.23	-84.07	0.00	0.00	0.00
4,100.00	5.93	312.10	4,093.56	90.27	-99.89	-91.05	0.00	0.00	0.00
4,200.00	5.93	312.10	4,193.03	97.19	-107.55	-98.04	0.00	0.00	0.00
4,300.00	5.93	312.10	4,292.49	104.12	-115.21	-105.02	0.00	0.00	0.00
4,400.00	5.93	312.10	4,391.96	111.04	-122.87	-112.00	0.00	0.00	0.00
4,500.00	5.93	312.10	4,491.42	117.96	-130.53	-118.98	0.00	0.00	0.00
4,600.00	5.93	312.10	4,590.89	124.89	-138.19	-125.97	0.00	0.00	0.00
4,700.00	5.93	312.10	4,690.35	131.81	-145.85	-132.95	0.00	0.00	0.00
4,800.00	5.93	312.10	4,789.82	138.73	-153.51	-139.93	0.00	0.00	0.00
4,900.00	5.93	312.10	4,889.28	145.65	-161.17	-146.92	0.00	0.00	0.00
5,000.00	5.93	312.10	4,988.75	152.58	-168.84	-153.90	0.00	0.00	0.00
5,100.00	5.93	312.10	5,088.21	159.50	-176.50	-160.88	0.00	0.00	0.00

Pro Directional Planning Report

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Wellbore:	OH		
Design:	Brad L. FC #122H Prelim B		

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)
5,200.00	5.93	312.10	5,187.68	166.42	-184.16	-167.86	0.00	0.00	0.00
5,300.00	5.93	312.10	5,287.15	173.35	-191.82	-174.85	0.00	0.00	0.00
5,400.00	5.93	312.10	5,386.61	180.27	-199.48	-181.83	0.00	0.00	0.00
5,500.00	5.93	312.10	5,486.08	187.19	-207.14	-188.81	0.00	0.00	0.00
5,600.00	5.93	312.10	5,585.54	194.11	-214.80	-195.80	0.00	0.00	0.00
5,700.00	5.93	312.10	5,685.01	201.04	-222.46	-202.78	0.00	0.00	0.00
5,800.00	5.93	312.10	5,784.47	207.96	-230.12	-209.76	0.00	0.00	0.00
5,900.00	5.93	312.10	5,883.94	214.88	-237.78	-216.74	0.00	0.00	0.00
6,000.00	5.93	312.10	5,983.40	221.81	-245.44	-223.73	0.00	0.00	0.00
6,100.00	5.93	312.10	6,082.87	228.73	-253.10	-230.71	0.00	0.00	0.00
6,122.85	5.93	312.10	6,105.60	230.31	-254.85	-232.31	0.00	0.00	0.00
Start Drop -1.50									
6,200.00	4.77	312.10	6,182.41	235.13	-260.19	-237.17	1.50	-1.50	0.00
6,300.00	3.27	312.10	6,282.16	239.83	-265.39	-241.91	1.50	-1.50	0.00
6,400.00	1.77	312.10	6,382.06	242.78	-268.65	-244.88	1.50	-1.50	0.00
6,500.00	0.27	312.10	6,482.04	243.97	-269.97	-246.08	1.50	-1.50	0.00
6,517.96	0.00	0.00	6,500.00	244.00	-270.00	-246.11	1.50	-1.50	0.00
6,600.00	0.00	0.00	6,582.04	244.00	-270.00	-246.11	0.00	0.00	0.00
6,700.00	0.00	0.00	6,682.04	244.00	-270.00	-246.11	0.00	0.00	0.00
6,800.00	0.00	0.00	6,782.04	244.00	-270.00	-246.11	0.00	0.00	0.00
6,900.00	0.00	0.00	6,882.04	244.00	-270.00	-246.11	0.00	0.00	0.00
7,000.00	0.00	0.00	6,982.04	244.00	-270.00	-246.11	0.00	0.00	0.00
7,100.00	0.00	0.00	7,082.04	244.00	-270.00	-246.11	0.00	0.00	0.00
7,200.00	0.00	0.00	7,182.04	244.00	-270.00	-246.11	0.00	0.00	0.00
7,300.00	0.00	0.00	7,282.04	244.00	-270.00	-246.11	0.00	0.00	0.00
7,400.00	0.00	0.00	7,382.04	244.00	-270.00	-246.11	0.00	0.00	0.00
7,500.00	0.00	0.00	7,482.04	244.00	-270.00	-246.11	0.00	0.00	0.00
7,600.00	0.00	0.00	7,582.04	244.00	-270.00	-246.11	0.00	0.00	0.00
7,700.00	0.00	0.00	7,682.04	244.00	-270.00	-246.11	0.00	0.00	0.00
7,800.00	0.00	0.00	7,782.04	244.00	-270.00	-246.11	0.00	0.00	0.00
7,900.00	0.00	0.00	7,882.04	244.00	-270.00	-246.11	0.00	0.00	0.00
8,000.00	0.00	0.00	7,982.04	244.00	-270.00	-246.11	0.00	0.00	0.00
8,100.00	0.00	0.00	8,082.04	244.00	-270.00	-246.11	0.00	0.00	0.00
8,200.00	0.00	0.00	8,182.04	244.00	-270.00	-246.11	0.00	0.00	0.00
8,300.00	0.00	0.00	8,282.04	244.00	-270.00	-246.11	0.00	0.00	0.00
8,400.00	0.00	0.00	8,382.04	244.00	-270.00	-246.11	0.00	0.00	0.00
8,500.00	0.00	0.00	8,482.04	244.00	-270.00	-246.11	0.00	0.00	0.00
8,600.00	0.00	0.00	8,582.04	244.00	-270.00	-246.11	0.00	0.00	0.00
8,700.00	0.00	0.00	8,682.04	244.00	-270.00	-246.11	0.00	0.00	0.00
8,800.00	0.00	0.00	8,782.04	244.00	-270.00	-246.11	0.00	0.00	0.00
8,900.00	0.00	0.00	8,882.04	244.00	-270.00	-246.11	0.00	0.00	0.00
9,000.00	0.00	0.00	8,982.04	244.00	-270.00	-246.11	0.00	0.00	0.00
9,100.00	0.00	0.00	9,082.04	244.00	-270.00	-246.11	0.00	0.00	0.00
9,200.00	0.00	0.00	9,182.04	244.00	-270.00	-246.11	0.00	0.00	0.00
9,300.00	0.00	0.00	9,282.04	244.00	-270.00	-246.11	0.00	0.00	0.00
9,400.00	0.00	0.00	9,382.04	244.00	-270.00	-246.11	0.00	0.00	0.00
9,500.00	0.00	0.00	9,482.04	244.00	-270.00	-246.11	0.00	0.00	0.00
9,600.00	0.00	0.00	9,582.04	244.00	-270.00	-246.11	0.00	0.00	0.00
9,700.00	0.00	0.00	9,682.04	244.00	-270.00	-246.11	0.00	0.00	0.00
9,800.00	0.00	0.00	9,782.04	244.00	-270.00	-246.11	0.00	0.00	0.00
9,900.00	0.00	0.00	9,882.04	244.00	-270.00	-246.11	0.00	0.00	0.00
10,000.00	0.00	0.00	9,982.04	244.00	-270.00	-246.11	0.00	0.00	0.00
10,100.00	0.00	0.00	10,082.04	244.00	-270.00	-246.11	0.00	0.00	0.00

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #122H
Company:	Matador Resources	TVD Reference:	3476 + 28.5 = KB @ 3504.50usft (Patt 256)
Project:	Lea County, NM (NAD27)	MD Reference:	3476 + 28.5 = KB @ 3504.50usft (Patt 256)
Site:	Brad Lummis Fed Com	North Reference:	Grid
Well:	#122H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Brad L. FC #122H Prelim B		

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)
10,200.00	0.00	0.00	10,182.04	244.00	-270.00	-246.11	0.00	0.00	0.00
10,300.00	0.00	0.00	10,282.04	244.00	-270.00	-246.11	0.00	0.00	0.00
10,400.00	0.00	0.00	10,382.04	244.00	-270.00	-246.11	0.00	0.00	0.00
10,500.00	0.00	0.00	10,482.04	244.00	-270.00	-246.11	0.00	0.00	0.00
10,600.00	0.00	0.00	10,582.04	244.00	-270.00	-246.11	0.00	0.00	0.00
10,700.00	0.00	0.00	10,682.04	244.00	-270.00	-246.11	0.00	0.00	0.00
10,745.06	0.00	0.00	10,727.10	244.00	-270.00	-246.11	0.00	0.00	0.00
KOP: Build 10.00									
10,750.00	0.49	178.15	10,732.04	243.98	-270.00	-246.09	10.01	10.01	0.00
10,800.00	5.49	178.15	10,781.96	241.37	-269.92	-243.48	10.00	10.00	0.00
10,850.00	10.49	178.15	10,831.46	234.42	-269.69	-236.53	10.00	10.00	0.00
10,900.00	15.49	178.15	10,880.16	223.19	-269.33	-225.30	10.00	10.00	0.00
10,950.00	20.49	178.15	10,927.70	207.75	-268.83	-209.86	10.00	10.00	0.00
11,000.00	25.49	178.15	10,973.71	188.24	-268.20	-190.34	10.00	10.00	0.00
11,050.00	30.49	178.15	11,017.85	164.79	-267.44	-166.88	10.00	10.00	0.00
11,100.00	35.49	178.15	11,059.77	137.58	-266.56	-139.67	10.00	10.00	0.00
11,150.00	40.49	178.15	11,099.16	106.83	-265.57	-108.91	10.00	10.00	0.00
11,200.00	45.49	178.15	11,135.72	72.76	-264.47	-74.84	10.00	10.00	0.00
11,250.00	50.49	178.15	11,169.17	35.64	-263.27	-37.71	10.00	10.00	0.00
11,300.00	55.49	178.15	11,199.26	-4.25	-261.98	2.20	10.00	10.00	0.00
11,350.00	60.49	178.15	11,225.75	-46.62	-260.61	44.57	10.00	10.00	0.00
11,400.00	65.49	178.15	11,248.45	-91.13	-259.18	89.09	10.00	10.00	0.00
11,450.00	70.49	178.15	11,267.18	-137.45	-257.68	135.42	10.00	10.00	0.00
11,500.00	75.49	178.15	11,281.79	-185.22	-256.14	183.20	10.00	10.00	0.00
11,550.00	80.49	178.15	11,292.19	-234.09	-254.56	232.08	10.00	10.00	0.00
11,600.00	85.49	178.15	11,298.29	-283.67	-252.96	281.68	10.00	10.00	0.00
11,645.06	90.00	178.15	11,300.06	-328.66	-251.50	326.68	10.00	10.00	0.00
Land: DLS 2.00 TFO 89.97									
11,700.00	90.00	179.25	11,300.06	-383.59	-250.26	381.61	2.00	0.00	2.00
11,715.13	90.00	179.55	11,300.06	-398.71	-250.10	396.73	2.00	0.00	2.00
11,800.00	90.00	179.55	11,300.06	-483.58	-249.43	481.61	0.00	0.00	0.00
11,900.00	90.00	179.55	11,300.06	-583.58	-248.65	581.61	0.00	0.00	0.00
12,000.00	90.00	179.55	11,300.05	-683.58	-247.87	681.61	0.00	0.00	0.00
12,100.00	90.00	179.55	11,300.05	-783.57	-247.08	781.61	0.00	0.00	0.00
12,200.00	90.00	179.55	11,300.05	-883.57	-246.30	881.61	0.00	0.00	0.00
12,300.00	90.00	179.55	11,300.05	-983.57	-245.52	981.61	0.00	0.00	0.00
12,400.00	90.00	179.55	11,300.05	-1,083.57	-244.74	1,081.61	0.00	0.00	0.00
12,500.00	90.00	179.55	11,300.05	-1,183.56	-243.95	1,181.61	0.00	0.00	0.00
12,600.00	90.00	179.55	11,300.05	-1,283.56	-243.17	1,281.61	0.00	0.00	0.00
12,700.00	90.00	179.55	11,300.05	-1,383.56	-242.39	1,381.61	0.00	0.00	0.00
12,800.00	90.00	179.55	11,300.04	-1,483.55	-241.60	1,481.61	0.00	0.00	0.00
12,900.00	90.00	179.55	11,300.04	-1,583.55	-240.82	1,581.61	0.00	0.00	0.00
13,000.00	90.00	179.55	11,300.04	-1,683.55	-240.04	1,681.61	0.00	0.00	0.00
13,100.00	90.00	179.55	11,300.04	-1,783.54	-239.25	1,781.61	0.00	0.00	0.00
13,200.00	90.00	179.55	11,300.04	-1,883.54	-238.47	1,881.61	0.00	0.00	0.00
13,300.00	90.00	179.55	11,300.04	-1,983.54	-237.69	1,981.61	0.00	0.00	0.00
13,400.00	90.00	179.55	11,300.04	-2,083.54	-236.91	2,081.61	0.00	0.00	0.00
13,500.00	90.00	179.55	11,300.03	-2,183.53	-236.12	2,181.61	0.00	0.00	0.00
13,600.00	90.00	179.55	11,300.03	-2,283.53	-235.34	2,281.61	0.00	0.00	0.00
13,700.00	90.00	179.55	11,300.03	-2,383.53	-234.56	2,381.61	0.00	0.00	0.00
13,800.00	90.00	179.55	11,300.03	-2,483.52	-233.77	2,481.61	0.00	0.00	0.00
13,900.00	90.00	179.55	11,300.03	-2,583.52	-232.99	2,581.61	0.00	0.00	0.00
14,000.00	90.00	179.55	11,300.03	-2,683.52	-232.21	2,681.61	0.00	0.00	0.00
14,100.00	90.00	179.55	11,300.03	-2,783.51	-231.42	2,781.61	0.00	0.00	0.00

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #122H
Company:	Matador Resources	TVD Reference:	3476 + 28.5 = KB @ 3504.50usft (Patt 256)
Project:	Lea County, NM (NAD27)	MD Reference:	3476 + 28.5 = KB @ 3504.50usft (Patt 256)
Site:	Brad Lummis Fed Com	North Reference:	Grid
Well:	#122H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Brad L. FC #122H Prelim B		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,200.00	90.00	179.55	11,300.03	-2,883.51	-230.64	2,881.61	0.00	0.00	0.00
14,300.00	90.00	179.55	11,300.02	-2,983.51	-229.86	2,981.61	0.00	0.00	0.00
14,400.00	90.00	179.55	11,300.02	-3,083.50	-229.07	3,081.61	0.00	0.00	0.00
14,500.00	90.00	179.55	11,300.02	-3,183.50	-228.29	3,181.61	0.00	0.00	0.00
14,600.00	90.00	179.55	11,300.02	-3,283.50	-227.51	3,281.61	0.00	0.00	0.00
14,700.00	90.00	179.55	11,300.02	-3,383.50	-226.73	3,381.61	0.00	0.00	0.00
14,800.00	90.00	179.55	11,300.02	-3,483.49	-225.94	3,481.61	0.00	0.00	0.00
14,900.00	90.00	179.55	11,300.02	-3,583.49	-225.16	3,581.61	0.00	0.00	0.00
15,000.00	90.00	179.55	11,300.02	-3,683.49	-224.38	3,681.61	0.00	0.00	0.00
15,100.00	90.00	179.55	11,300.01	-3,783.48	-223.59	3,781.61	0.00	0.00	0.00
15,200.00	90.00	179.55	11,300.01	-3,883.48	-222.81	3,881.61	0.00	0.00	0.00
15,300.00	90.00	179.55	11,300.01	-3,983.48	-222.03	3,981.61	0.00	0.00	0.00
15,400.00	90.00	179.55	11,300.01	-4,083.47	-221.24	4,081.61	0.00	0.00	0.00
15,500.00	90.00	179.55	11,300.01	-4,183.47	-220.46	4,181.61	0.00	0.00	0.00
15,600.00	90.00	179.55	11,300.01	-4,283.47	-219.68	4,281.61	0.00	0.00	0.00
15,700.00	90.00	179.55	11,300.01	-4,383.46	-218.90	4,381.61	0.00	0.00	0.00
15,800.00	90.00	179.55	11,300.01	-4,483.46	-218.11	4,481.61	0.00	0.00	0.00
15,900.00	90.00	179.55	11,300.00	-4,583.46	-217.33	4,581.61	0.00	0.00	0.00
16,000.00	90.00	179.55	11,300.00	-4,683.46	-216.55	4,681.61	0.00	0.00	0.00
16,100.00	90.00	179.55	11,300.00	-4,783.45	-215.76	4,781.61	0.00	0.00	0.00
16,197.55	90.00	179.55	11,300.00	-4,881.00	-215.00	4,879.16	0.00	0.00	0.00
TD at 16197.55									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
FPP (Brad L. #122H)	0.00	0.00	0.00	194.00	-255.00	441,216.00	775,557.00	32.209881	-103.442405
- plan misses target center by 320.41usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
BHL (Brad L. #122H)	0.00	0.00	11,300.00	-4,881.00	-215.00	436,141.00	775,597.00	32.195930	-103.442412
- plan hits target center									
- Point									

Plan Annotations

	Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
			+N/-S (usft)	+E/-W (usft)	
	2,500.00	2,500.00	0.00	0.00	Start Build 1.00
	6,122.85	6,105.60	20.53	-22.72	Start Drop -1.50
	10,745.06	10,727.10	230.31	-254.85	KOP: Build 10.00
	11,645.06	11,300.06	244.00	-270.00	Land: DLS 2.00 TFO 89.97
	16,197.55	11,300.00	244.00	-270.00	TD at 16197.55