<u>District I</u> 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

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 324474

			APPLICA	ATION F	OR PERMIT T	O DRILL, RE	E-EI	NTER, DEEPE	N, PLUGBA	CK, OR AL	DD A ZON	IE		
1. Operate		e and Address ADOR PRODUC	TION COMPAN'	1							2. OGRI	ID Number 228937		
		Lincoln Centre is, TX 75240									3. API N	lumber 30-025-50537	,	
4. Propert	y Code 3332			5. Property	y Name MARLAN DOWN	EY STATE COM	И				6. Well I	No. 121H		
						7. Su	ırfac	e Location						
UL - Lot	K	Section 4	Township 235	Ran	nge 35E	Lot Idn K	Fe	eet From 2316	N/S Line S	Feet Fron	n 1566	E/W Line W	County	Lea
						8. Proposed	Bot	tom Hole Location	on					
UL - Lot	М	Section 16	Township 2	3S	Range 35E	Lot Idn		Feet From 60	N/S Line S	Feet Fro	om 660	E/W Line W	County	Lea
						9. Pc	ool li	nformation						
ROCK L	AKE;E	BONE SPRING,	SOUTH									52769		
						Addition	al W	lell Information						
11. Work	Гуре New	Well	12. Well Typ	e IIL	13. Ca	able/Rotary		1	14. Lease Type State	1	5. Ground Le	evel Elevation 46		
16. Multip	ole N		17. Propose	d Depth 3784	18. Fo	ormation Bone Sprii	ng	1	19. Contractor	2	0. Spud Date 9/9	e 0/2022		
Depth to	Ground	water			Distar	nce from nearest f	resh	water well		Е	Distance to ne	arest 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	2000	1700	0
Int1	9.875	7.625	29.7	9800	1500	0
Prod	6.75	5.5	23	23784	1150	9600

Casing/Cement Program: Additional Comments

	22. Proposed Blowout Preven	ntion Program	
Туре	Working Pressure	Test Pressure	Manufacturer
Annular	5000	3000	Cameron
Double Ram	10000	5000	Cameron
Pipe	10000	5000	Cameron

knowledge and be	elief.	s true and complete to the best of my NMAC and/or 19.15.14.9 (B) NMAC		OIL CONSERVATIO	ON DIVISION	
Signature:						
Printed Name:	Electronically filed by Brett A Jer	nnings	Approved By:	Paul F Kautz		
Title:	Regulatory Analyst		Title:	Geologist		
Email Address:	brett.jennings@matadorresourd	ces.com	Approved Date:	9/8/2022	Expiration Date: 9/8/2024	
Date:	9/1/2022	Phone: 972-629-2160	Conditions of Appr	oval Attached		

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

M

¹²Dedicated Acres

400 240

23-S

Consolidation Code

³Joint or Infill

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**

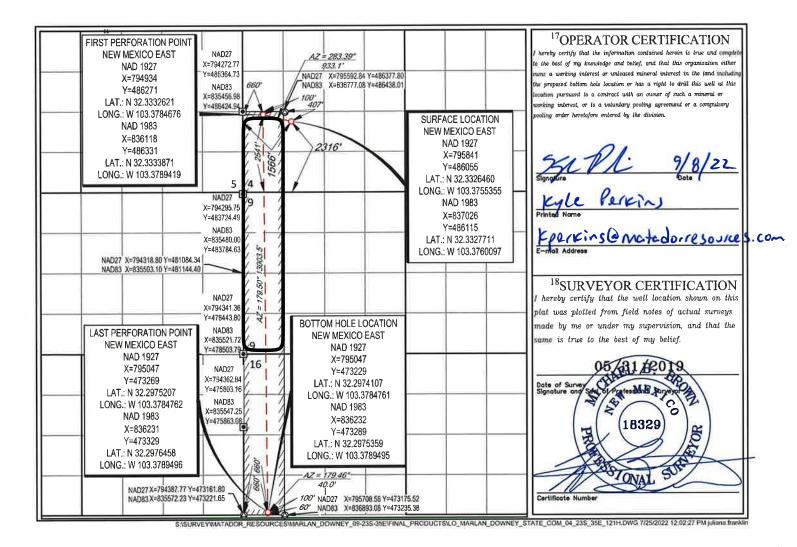
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	API Number	Number Pool Code 1 ool Name						I		
30-025	5-50537		5	2760		ROCK Lak	e: Bone	Spr	٠٠٩. ٠	South
⁴ Property (Code				⁵ Property N	lame		12.6	1, 01	Vell Number
333258				MARLA	N DOWNEY	STATE COM				121H
7OGRID I	No.				⁸ Operator l	Name				⁹ Elevation
22893	728937 MATADOR PRODUCTION COMPANY 354						3546'			
					¹⁰ Surface L	ocation				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Ea	st/West line	County
K	4	23-S 35-E - 2316' SOUTH 1566' 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	E	ast/West line	County
М	16	23-S	35-E	-	60'	SOUTH	660'	WE	ST	LEA

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.

Order No.



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District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

¹API Number

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

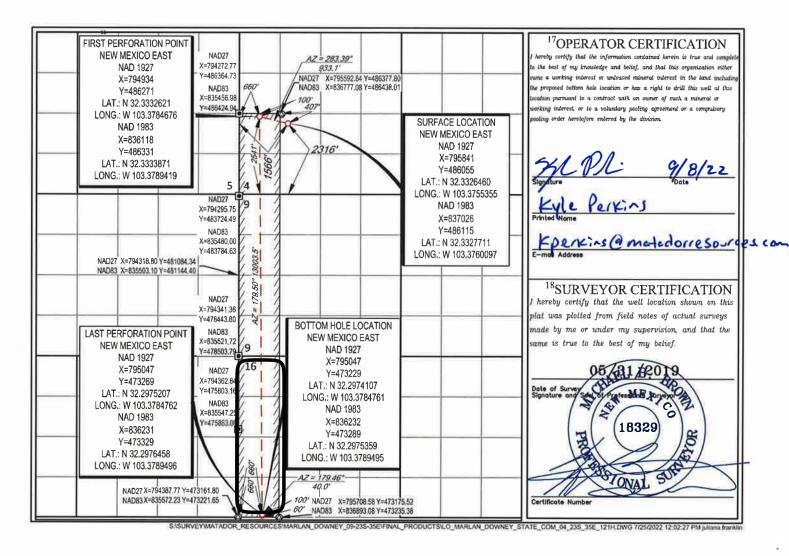
FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

			9	8246	WC-	-025 G-06	52335	ILM:	Middle	Bone S
⁴ Property C	ode				⁵ Property N	lame		7	*Well N	lumber
				MARLA	N DOWNEY	STATE COM	[12	1H
OGRID N					Operator !	Name			⁹ Elev	ation
72893	37		1	MATADO	R PRODUC'	TION COMPA	NY		354	46'
- 10					¹⁰ Surface Lo	ocation				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	/West line	County
K	4	23-S	35-E	_	2316'	SOUTH	1566'	WES	T	LEA
			11	Bottom Ho	ole Location If D	Different From Su	rface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	t/West line	County
M	16	23-S	35-E	=	60'	SOUTH	660'	WES	T	LEA
12Dedicated Acres	Joint or 1	nfill 14Co	onsolidation Co	de ¹⁵ Ord	ler 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.



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

Form APD Conditions

Permit 324474

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
MATADOR PRODUCTION COMPANY [228937]	30-025-50537
One Lincoln Centre	Well:
Dallas, TX 75240	MARLAN DOWNEY STATE COM #121H

OCD	Condition
Reviewer	
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh
	water zone or zones and shall immediately set in cement the water protection string
	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

Production	Company	OGRID: 228937 Date: 8-3/-22					
] Amendment	due to ☐ 19.15.27.9.	D(6)(a) NMAC	□ 19.15.27.9.D(6)(b) Ni	МАС □ О	ther.	
e:							
ne following in gle well pad o	nformation for each nor connected to a cent	ew or recomple ral delivery poi	eted well or set of and	wells pr	oposed to	be drill	led or proposed to b
API	ULSTR	Footages	Anticipated Oil BBL/D		•		Anticipated Produced Water BBL/D
TBD	UL-K Sec 4 T23S R35E		1,000	2,000		4,000	
TBD	UL-K Sec 4 T23S R35E	2,316' FSL	1,000	2,000		4,000	
TBD	UL-I Sec 4 T23S R35E	2,406' FSL	1,000	2,000		4,000	
TBD	UL-I Sec 4 T23S R35E	2,406' FSL 1,093' FEL	1,000	2,000		4,000	
ule: Provide tl	he following informat	ion for each ne	ral delivery point.		et of wells	propo	
API	Spud Date	TD Reached Date			I		First Production Date
LBD	9/14/2022	10/20/2022	12/20/2022		1/25/2023		1/25/2023
TBD			12/20/2022		1/25/2023		1/25//2023
TBD			12/20/2022		1/25/2023		1/25/2023
TBD							
	Amendment The image of the following in gle well pad of the follo	re:	API UL-I Sec 4 T23S R35E 2,406° FSL 1,063° FEL TBD UL-I Sec 4 T23S R35E 2,406° FSL 1,063° FEL TBD UL-I Sec 4 T23S R35E 2,406° FSL 1,063° FEL TBD UL-I Sec 4 T23S R35E 2,406° FSL 1,063° FEL TBD UL-I Sec 4 T23S R35E 2,406° FSL 1,063° FEL TBD UL-I Sec 4 T23S R35E 2,406° FSL 1,063° FEL TBD UL-I Sec 4 T23S R35E 2,406° FSL 1,093° FEL Point Name: Marlan East TB ule: Provide the following information for each new letted from a single well pad or connected to a cent letted from a single well pad or connec	API UL-K Sec 4 T238 R35E 2,316 FSL 1,000 UL-I Sec 4 T238 R35E 2,406 FSL 1,000 UL-I Sec 4 T238 R35E 2,316 FSL 1,000 UL-I Sec 4 T238 R35E 1,000	API UL-K Sec 4 T23S R35E 2.316 FSL 1.000 2.000 UL-K Sec 4 T23S R35E 2.406 FSL 1.000 2.000 UL-I Sec 4 T23S R35E 2.406 FSL 1.000 2.000 UL-I Sec 4 T23S R35E 2.406 FSL 1.000 2.000 UL-I Sec 4 T23S R35E 2.406 FSL 1.000 2.000 UL-I Sec 4 T23S R35E 2.406 FSL 1.000 2.000 UL-I Sec 4 T23S R35E 2.406 FSL 1.000 2.000 UL-I Sec 4 T23S R35E 2.406 FSL 1.000 2.000 UL-I Sec 4 T23S R35E 2.406 FSL 1.000 2.000 UL-I Sec 4 T23S R35E 2.406 FSL 1.000 2.000 UL-I Sec 4 T23S R35E 2.406 FSL 1.000 2.000 UL-I Sec 4 T23S R35E 2.406 FSL 1.000 2.000 UL-I Sec 4 T23S R35E 2.406 FSL 1.000 C.000 UL-I Sec 4 T23S R35E 2.406 FSL 1.000 C.000 UL-I Sec 4 T23S R35E 2.406 FSL 1.000 C.000 UL-I Sec 4 T23S R35E 2.406 FSL 1.000 C.000 UL-I Sec 4 T23S R35E 2.406 FSL 1.000 D.000 UL-I Sec 4 T23S R35E 2.400 FSL 1.000 C.000 UL-I Sec 4 T23S R35E 2.400 FSL 1.000 D.000 UL-I Sec 4 T23S R35E 2.400 FSL 1.000 D.000 UL-I Sec 4 T23S R35E 2.400 FSL 1.000 D.000 UL-I Sec 4 T23S R35E 2.400 FSL 1.000 D.000 UL-I Sec 4 T23S R35E 2.400 FSL 1.000 D.000 UL-I Sec 4 T23S R35E 2.400 FSL 1.000 D.000 UL-I Sec 4 T23S R35E 2.400 FSL 1.000 D.000 UL-I Sec 4 T23S R35E 2.400 FSL 1.000 D.000 UL-I Sec 4 T23S R35E 2.400 FSL 1.000 D.000 UL-I Sec 4 T23S R35E 2.400 FSL 1.000 D.000 UL-I Sec 4 T23S R35E 2.400 FSL 1.000 D.000 UL-I Sec 4 T23S R35E 2.400 FSL 1.000 D.000 UL-I Sec 4 T23S R35E 2.400 FSL 1.000 D.000 UL-I Sec 4 T23S R35E 2.400 FSL 1.000 D.000 UL-I Sec 4 T23S R35E 2.400 FSL 1.000 D.000 UL-I Sec 4 T23S R35E 2.400 FSL 1.000 D.000 UL-I Sec 4 T23S R35E 2.400 FSL 1.000 D.000 UL-I Sec 4 T23S R35E 2.400 FSL 1.000 D.000 UL-I Sec 4 T23S R35E 2.400 FSL 1.000 D.000 UL-I Sec 4 T23S R35E 2.400 FSL 1.000 UL-I Sec 4 T23S R35E 2.310 FSL 1.000 UL-I Se	API UL-K Sec 4 T23S R35E 2.316' FSL 1.000 2.000 TBD UL-K Sec 4 T23S R35E 2.406' FSL 1.000 2.000 TBD UL-I Sec 4 T23S R35E 2.406' FSL 1.000 2.000 TBD UL-I Sec 4 T23S R35E 2.406' FSL 1.000 2.000 TBD UL-I Sec 4 T23S R35E 2.406' FSL 1.000 2.000 TBD UL-I Sec 4 T23S R35E 2.406' FSL 1.000 2.000 TBD UL-I Sec 4 T23S R35E 2.406' FSL 1.000 2.000 TBD UL-I Sec 4 T23S R35E 2.406' FSL 1.000 2.000 TBD UL-I Sec 4 T23S R35E 2.406' FSL 1.000 2.000 TBD UL-I Sec 4 T23S R35E 2.406' FSL 1.000 2.000 TBD UL-I Sec 4 T23S R35E 2.406' FSL 1.000 2.000 TBD UL-I Sec 4 T23S R35E 2.406' FSL 1.000 2.000 TBD UL-I Sec 4 T23S R35E 2.406' FSL 1.000 1.000 2.000 TBD UL-I Sec 4 T23S R35E 2.406' FSL 1.000 1.000 1.000 TBD UL-I Sec 4 T23S R35E 2.406' FSL 1.000 1.000 1.000 TBD UL-I Sec 4 T23S R35E 2.406' FSL 1.000 1.000 1.000 TBD UL-I Sec 4 T23S R35E 1.000 1.000 1.000 TBD UL-I Sec 4 T23S R35E 1.000 1.000 1.000 TBD UL-I Sec 4 T23S R35E 1.000 1.000 1.000 TBD UL-I Sec 4 T23S R35E 1.000 1.000 1.000 TBD UL-I Sec 4 T23S R35E 1.000 1.000 1.000 TBD UL-I Sec 4 T23S R35E 1.000 1.000 1.000 TBD UL-I Sec 4 T23S R35E 1.000 1.000 1.000 TBD UL-I Sec 4 T23S R35E 1.000 1.000 1.000 TBD UL-I Sec 4 T23S R35E 1.000 1.000 1.000 TBD UL-I Sec 4 T23S R35E 1.000 1.000 1.000 TBD UL-I Sec 4 T23S R35E 1.000 1.000 1.000 TBD UL-I Sec 4 T23S R35E 1.000 1.000 1.000 TBD UL-I Sec 4 T23S R35E 1.000 1.000 1.000 TBD UL-I Sec 4 T23S R35E 1.000 1.000 1.000 TBD UL-I Sec 4 T23S R35E 1.000 1.000 1.000 TBD UL-I Sec 4 T23S R35E 1.000 1.000 1.000 TBD UL-I Sec 4 T23S R35E 1.000 1.000 1.000 TBD UL-I Sec 4 T23S R35E 1.000 1.000 TBD UL-I Sec 4 T23S R35E 1.000 1.000 1.000 TBD UL-I Sec 4 T23S R35E 1.000 1.000 TBD UL-I Sec 4 T23S R35E 1.000 1 TBD UL-I Sec 4 T23S	Amendment due to

- VI. Separation Equipment:

 Attach a complete description of how Operator will size separation equipment to optimize gas capture.
- VII. Operational Practices:
 ☐ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☑ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

- XI. Map. \square Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.
- XII. Line Capacity. The natural gas gathering system \square will \square will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.
- XIII. Line Pressure. Operator \(\subseteq \text{does} \) does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).
- ☐ Attach Operator's plan to manage production in response to the increased line pressure.
- XIV. Confidentiality:
 Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

⊠Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

Deperator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. \square Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:
Printed Name: Ryan Hernandez
Title: Production Engineer
E-mail Address: rhernandez@matadorresources.com
Date: 8-31-22
Phone: (972) 619-1276
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Addendum to Natural Gas Management Plan for Matador's Marlan Downey State Com 121H, 122H, 123H, 124H

VI. Separation Equipment

Flow from the wells will be routed via a flowline to a 48"x15" three phase separator dedicated to the well. The first stage separators are sized with input from BRE ProMax and API 12J. Anticipated production rates can be seen in the below table. Liquid retention times at expected maximum rates will be >3 minutes. Gas will be routed from the first stage separator to sales. Hydrocarbon liquids are dumped from the first stage separator and commingled to one or more heater treaters. The flash gas from the heater treater(s) could either be sent to sales or routed to a compressor if the sales line pressure is higher than the MAWP of the heater treater (125 psi). From the heater treaters, hydrocarbon liquid will be routed to the tanks where vapor is compressed by a VRU if technically feasible to either sales or a compressor if the sales line pressure is higher than the VRU's maximum discharge pressure (~150 psi). Therefore, Matador has sized our separation equipment to optimize gas capture and our separation equipment is of sufficient size to handle the expected volumes of gas.

Well Name	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Marlan Downey State Com #121H	1,000	2,000	4,000
Marlan Downey State Com #122H	1,000	2,000	4,000
Marlan Downey State Com #123H	1,000	2,000	4,000
Marlan Downey State Com #124H	1,000	2,000	4,000

VII. Operation Practices

Although not a complete recitation of all our efforts to comply with a subsection A through F of 19.15.27.8 NMAC, a summary is as follows. During drilling, Matador will have a properly sized flare stack at least 100 feet from the nearest surface hole. During initial flowback we will route the flowback fluids into completion or storage tanks and, to the extent possible, flare rather than vent any gas. We will commence operation of a separator as soon as technically feasible, and have instructed our team that we want to connect the gas to sales as soon as possible but not later than 30 days after initial flowback.

Regarding production operations, we have designed our production facilities to be compliant with the requirements of Part E of 19.15.27.8 NMAC. We will instruct our team to perform the AVOs on the frequency required under the rules. While the well is producing, we will take steps to minimize flaring during maintenance, as set forth below, and we have a process in place for the measuring of any flared gas and the reporting of any reportable flaring events.

VII. Best Management Practices

Steps are taken to minimize venting during active or planned maintenance when technically feasible including:

- Isolating the affected component and reducing pressure through process piping
- Blowing down the equipment being maintained to a control device
- Performing preventative maintenance and minimizing the duration of maintenance activities
- Shutting in sources of supply as possible
- Other steps that are available depending on the maintenance being performed

Matador Production Company

Antelope Ridge Marlan Downey State Marlan Downey State Com #121H

Wellbore #1

Plan: State Plan #1

Standard Planning Report

22 August, 2022

Database: EDM 5000.14 Server Company: Matador Production Company

Project: Antelope Ridge Site: Marlan Downey State

Well: Marlan Downey State Com #121H

Wellbore: Wellbore #1 Design: State Plan #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Marlan Downey State Com #121H

KB @ 3574.5usft KB @ 3574.5usft

Grid

Minimum Curvature

Project Antelope Ridge

Map System: US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS)

Geo Datum:

Map Zone: New Mexico East 3001 Mean Sea Level

Using geodetic scale factor

Site Marlan Downey State

Northing: 486,142.35 usft Site Position: Latitude: 32° 19' 58.144 N From: Lat/Long Easting: 798,580.83 usft Longitude: 103° 21' 59.993 W **Position Uncertainty: Slot Radius:** 13-3/16 " Grid Convergence: 0.52° 0.0 usft

System Datum:

Well Marlan Downey State Com #121H

Well Position +N/-S -87.1 usft Northing: 486,055.23 usft Latitude: 32° 19' 57.526 N +E/-W -2,739.5 usft Easting: 795,841.27 usft Longitude: 103° 22' 31.928 W

Position Uncertainty 0.0 usft Wellhead Elevation: Ground Level: 3,546.0 usft

Wellbore Wellbore #1 Declination Magnetics **Model Name** Sample Date **Dip Angle** Field Strength (°) (°) (nT) IGRF2015 8/18/2022 6.30 60.12 47.489.14197756

Design State Plan #1 **Audit Notes:** Version: Phase: **PROTOTYPE** Tie On Depth: 0.0 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.0 0.0 0.0 179.50

Plan Survey Tool Program Date 8/19/2022

Depth From Depth To (usft)

(usft) Survey (Wellbore)

Tool Name Remarks

0.0 23,784.3 State Plan #1 (Wellbore #1) MWD 1

OWSG MWD - Standard

Plan Sections Vertical Build Measured **Dogleg** Turn Depth Inclination **Azimuth** Depth +N/-S +E/-W Rate Rate Rate **TFO** (usft) (usft) (°/100usft) (°/100usft) (°/100usft) (usft) (usft) (°) (°) (°) **Target** 0.00 0.00 0.0 0.0 0.0 0.00 0.00 0.00 0.00 0.0 1.500.0 0.00 0.00 1.500.0 0.0 0.0 0.00 0.00 0.00 0.00 2,500.0 10.00 53.7 -68.5 1.00 0.00 308.06 308.06 2,494.9 1.00 9.032.8 10.00 308.06 8.928.5 753.1 -961.7 0.00 0.00 0.00 0.00 0.00 788.9 -1 50 0.00 9.699.5 0.00 9,591.8 -1.007.41.50 180 00 0.00 0.00 9,880.7 0.00 0.00 9,773.0 788.9 -1,007.40.00 0.00 VP - Marlan Downe 10,780.7 90.00 180.00 10,346.0 215.9 -1,007.410.00 10.00 0.00 180.00 10,827.7 90.00 179.06 10,346.0 168.9 -1,007.0 2.00 0.00 -2.00 -90.01 23.784.3 90.00 179.06 10.346.0 -12.786.0-794.3 0.00 0.00 0.00 0.00 BHL - Marlan Down

Database: EDM 5000.14 Server

Matador Production Company

Company: Project: Site:

Antelope Ridge Marlan Downey State

Well: Marlan Downey State Com #121H

Wellbore: Wellbore #1
Design: State Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Marlan Downey State Com #121H

KB @ 3574.5usft KB @ 3574.5usft

Grid

anned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0 400.0	0.00 0.00	0.00 0.00	300.0 400.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00 0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build		0.00	.,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	1.00	308.06	1,600.0	0.5	-0.7	-0.5	1.00	1.00	0.00
1,700.0	2.00	308.06	1,700.0	2.2	-2.7	-2.2	1.00	1.00	0.00
1,800.0	3.00	308.06	1,799.9	4.8	-6.2	- 4.9	1.00	1.00	0.00
1,900.0	4.00	308.06	1,899.7	8.6	-11.0	-8.7	1.00	1.00	0.00
1,985.6	4.86	308.06	1,985.0		-16.2	-12.8	1.00		0.00
*	4.00	306.06	1,965.0	12.7	-10.2	-12.0	1.00	1.00	0.00
Rustler 2,000.0	5.00	200.06	1 000 4	12.4	17.0	-13.6	1.00	1.00	0.00
	6.00	308.06	1,999.4 2,098.9	13.4 19.4	-17.2			1.00	
2,100.0 2,200.0	7.00	308.06 308.06	2,096.9	26.3	-24.7 -33.6	-19.6 -26.6	1.00 1.00	1.00 1.00	0.00 0.00
2,300.0	8.00	308.06	2,196.3	34.4	-33.0 -43.9	-20.0 -34.8	1.00	1.00	0.00
2,400.0	9.00	308.06	2,396.3	43.5	-55.5	-44.0	1.00	1.00	0.00
2,500.0	10.00	308.06	2,494.9	53.7	-68.5	-54.3	1.00	1.00	0.00
	5 hold at 2500		0.540.0	50.0	75.0	50.5	0.00	0.00	0.00
2,548.8	10.00	308.06	2,543.0	58.9	- 75.2	-59.5	0.00	0.00	0.00
Salado (TO		000.00	0.500.4	04.4	00.0	05.4	0.00	0.00	0.00
2,600.0	10.00	308.06	2,593.4	64.4 75.1	-82.2 -95.9	-65.1	0.00	0.00	0.00
2,700.0	10.00	308.06	2,691.9	75.1		-75.9	0.00	0.00	0.00
2,800.0	10.00	308.06	2,790.4	85.8	-109.5	-86.7	0.00	0.00	0.00
2,900.0	10.00	308.06	2,888.9	96.5	-123.2	-97.6	0.00	0.00	0.00
3,000.0	10.00	308.06	2,987.3	107.2	-136.9	-108.4	0.00	0.00	0.00
3,100.0	10.00	308.06	3,085.8	117.9	-150.6	-119.2	0.00	0.00	0.00
3,200.0	10.00	308.06	3,184.3	128.6	-164.2	-130.0	0.00	0.00	0.00
3,300.0	10.00	308.06	3,282.8	139.3	-177.9	-140.9	0.00	0.00	0.00
3,400.0	10.00	308.06	3,381.3	150.0	-191.6	-151.7	0.00	0.00	0.00
3,500.0	10.00	308.06	3,479.7	160.7	-205.3	-162.5	0.00	0.00	0.00
3,600.0	10.00	308.06	3,578.2	171.4	-218.9	-173.3	0.00	0.00	0.00
3,700.0	10.00	308.06	3,676.7	182.1	-232.6	-184.2	0.00	0.00	0.00
3,800.0	10.00	308.06	3,775.2	192.8	-246.3	-195.0	0.00	0.00	0.00
3,900.0	10.00	308.06	3,873.7	203.6	-259.9	-205.8	0.00	0.00	0.00
4,000.0	10.00	308.06	3,972.1	214.3	-273.6	-216.6	0.00	0.00	0.00
4,100.0	10.00	308.06	4,070.6	225.0	-287.3	-227.5	0.00	0.00	0.00
4,200.0	10.00	308.06	4,169.1	235.7	-301.0	-238.3	0.00	0.00	0.00
			-						
4,300.0 4,343.1	10.00 10.00	308.06 308.06	4,267.6 4,310.0	246.4	-314.6 -320.5	-249.1 -253.8	0.00 0.00	0.00 0.00	0.00 0.00
			4,310.0	251.0	-320.3	-255.6	0.00	0.00	0.00
G30:C514-	CSB (BASE S	308.06	4,366.1	257.1	-328.3	-259.9	0.00	0.00	0.00
4,400.0	10.00								

Database: EDM 5000.14 Server Company:

Matador Production Company

Project: Antelope Ridge Marlan Downey State Site:

Well: Marlan Downey State Com #121H

Wellbore: Wellbore #1 Design: State Plan #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Marlan Downey State Com #121H

KB @ 3574.5usft KB @ 3574.5usft

Grid

ned 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)
4,459.8 YATES	10.00	308.06	4,425.0	263.5	-336.5	-266.4	0.00	0.00	0.00
4,500.0	10.00	308.06	4,464.5	267.8	-342.0	- 270.8	0.00	0.00	0.00
4,600.0 4,700.0 4,719.8 CAPITAN	10.00 10.00 10.00	308.06 308.06 308.06	4,563.0 4,661.5 4,681.0	278.5 289.2 291.3	-355.6 -369.3 -372.0	-281.6 -292.4 -294.6	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
4,800.0 4,900.0	10.00 10.00	308.06 308.06	4,760.0 4,858.5	299.9 310.6	-383.0 -396.7	-303.2 -314.1	0.00 0.00	0.00 0.00	0.00 0.00
5,000.0 5,100.0 5,200.0 5,300.0 5,400.0	10.00 10.00 10.00 10.00 10.00	308.06 308.06 308.06 308.06 308.06	4,957.0 5,055.4 5,153.9 5,252.4 5,350.9	321.3 332.0 342.7 353.4 364.1	-410.3 -424.0 -437.7 -451.3 -465.0	-324.9 -335.7 -346.5 -357.4 -368.2	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
5,500.0 5,600.0 5,700.0 5,800.0 5,900.0	10.00 10.00 10.00 10.00 10.00	308.06 308.06 308.06 308.06 308.06	5,449.4 5,547.8 5,646.3 5,744.8 5,843.3	374.8 385.6 396.3 407.0 417.7	-478.7 -492.4 -506.0 -519.7 -533.4	-379.0 -389.8 -400.7 -411.5 -422.3	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
6,000.0 6,083.5	10.00 10.00	308.06 308.06	5,941.8 6,024.0	428.4 437.3	-547.0 -558.5	-433.1 -442.2	0.00 0.00	0.00 0.00	0.00 0.00
G26: Bell (•	308.06	6,040.2	439.1	-560.7	-444.0	0.00	0.00	0.00
6,100.0 6,200.0 6,300.0	10.00 10.00 10.00	308.06 308.06	6,040.2 6,138.7 6,237.2	449.8 460.5	-574.4 -588.1	-454.8 -465.6	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
6,389.2	10.00	308.06	6,325.0	470.0	-600.3	-475.3	0.00	0.00	0.00
G13: Cher				4=4.0	221 =	4=0.4			
6,400.0 6,500.0 6,600.0 6,700.0	10.00 10.00 10.00 10.00	308.06 308.06 308.06 308.06	6,335.7 6,434.2 6,532.6 6,631.1	471.2 481.9 492.6 503.3	-601.7 -615.4 -629.1 -642.7	-476.4 -487.3 -498.1 -508.9	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
6,800.0 6,900.0 7,000.0 7,100.0 7,200.0	10.00 10.00 10.00 10.00 10.00	308.06 308.06 308.06 308.06 308.06	6,729.6 6,828.1 6,926.6 7,025.0 7,123.5	514.0 524.7 535.4 546.1 556.8	-656.4 -670.1 -683.8 -697.4 -711.1	-519.7 -530.6 -541.4 -552.2 -563.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
7,300.0 7,400.0 7,500.0 7,572.1	10.00 10.00 10.00 10.00	308.06 308.06 308.06 308.06	7,222.0 7,320.5 7,419.0 7,490.0	567.6 578.3 589.0 596.7	-724.8 -738.5 -752.1 -762.0	-573.9 -584.7 -595.5 -603.3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
G7: Brush 7,600.0	10.00	308.06	7,517.5	599.7	-765.8	-606.3	0.00	0.00	0.00
7,700.0 7,800.0 7,900.0 8,000.0 8,100.0	10.00 10.00 10.00 10.00 10.00	308.06 308.06 308.06 308.06 308.06	7,615.9 7,714.4 7,812.9 7,911.4 8,009.9	610.4 621.1 631.8 642.5 653.2	-779.5 -793.1 -806.8 -820.5 -834.2	-617.2 -628.0 -638.8 -649.6 -660.5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
8,200.0 8,300.0 8,400.0 8,500.0 8,588.5	10.00 10.00 10.00 10.00 10.00	308.06 308.06 308.06 308.06 308.06	8,108.3 8,206.8 8,305.3 8,403.8 8,490.9	663.9 674.6 685.3 696.0 705.5	-847.8 -861.5 -875.2 -888.8 -900.9	-671.3 -682.1 -692.9 -703.8 -713.3	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
Start Drop			,						

Database: EDM 5000.14 Server Company:

Matador Production Company

Project: Antelope Ridge Marlan Downey State Site:

Well: Marlan Downey State Com #121H

Wellbore: Wellbore #1 Design: State Plan #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Marlan Downey State Com #121H

KB @ 3574.5usft KB @ 3574.5usft

Grid

lann	ed Survey									
	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	8,600.0 8,700.0 8,800.0 8,900.0	10.00 10.00 10.00 10.00	308.06 308.06 308.06 308.06	8,502.3 8,600.7 8,699.2 8,797.7	706.7 717.4 728.1 738.9	-902.5 -916.2 -929.9 -943.5	-714.6 -725.4 -736.2 -747.1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
	8,920.6 G4: BSGL	10.00 (CS9)	308.06	8,818.0	741.1	-946.3	-749.3	0.00	0.00	0.00
	9,000.0 9,032.8 9,090.1	10.00 10.00 9.14 valon Shale	308.06 308.06 308.06	8,896.2 8,928.5 8,985.0	749.6 753.1 758.9	-957.2 -961.7 -969.2	-757.9 -761.4 -767.4	0.00 0.00 1.50	0.00 0.00 -1.50	0.00 0.00 0.00
	9,100.0 9,200.0	8.99 7.49	308.06 308.06	8,994.8 9,093.7	759.9 768.7	-970.4 -981.7	-768.3 -777.3	1.50 1.50	-1.50 -1.50	0.00 0.00
	9,219.4	7.20	308.06	9,113.0	770.3	-983.7	-778.8	1.50	-1.50	0.00
	9,255.2 Start 618.8	on Carb 6.66 hold at 9255.	308.06	9,148.5	772.9	-987.1	-781.5	1.50	-1.50	0.00
	9,300.0 9,400.0 9,500.0	5.99 4.49 2.99	308.06 308.06 308.06	9,193.0 9,292.6 9,392.4	776.0 781.6 785.6	-990.9 -998.1 -1,003.3	-784.6 -790.3 -794.4	1.50 1.50 1.50	-1.50 -1.50 -1.50	0.00 0.00 0.00
	9,600.0 9,690.7	1.49 0.13	308.06 308.06	9,492.3 9,583.0	788.1 788.8	-1,006.4 -1,007.4	-796.8 -797.6	1.50 1.50	-1.50 -1.50	0.00 0.00
	9,699.5 9,700.0 9,800.0	0.00 0.00 0.00	0.00 0.00 0.00	9,591.8 9,592.3 9,692.3	788.9 788.9 788.9	-1,007.4 -1,007.4 -1,007.4	-797.6 -797.6 -797.6	1.50 0.00 0.00	-1.50 0.00 0.00	0.00 0.00 0.00
	9,873.9 Start Build	0.00	0.00	9,766.2	788.9	-1,007.4	-797.6	0.00	0.00	0.00
	9,880.7	0.00	0.00	9,773.0	788.9	-1,007.4	-797.6	0.00	0.00	0.00
	9,900.0 9,913.7	n Downey Stat 1.93 3.30	180.00 180.00	9,792.3 9,806.0	788.5 787.9	-1,007.4 -1,007.4	-797.3 -796.7	10.00 10.00	10.00 10.00	0.00 0.00
	L5.1: FBS (9,994.4 M. FBSG	3 11.37	180.00	9,886.0	777.6	-1,007.4	-786.4	10.00	10.00	0.00
	10,000.0 10,080.7	11.93 20.00	180.00 180.00	9,891.4 9,969.0	776.5 754.3	-1,007.4 -1,007.4	-785.2 -763.0	10.00 10.00	10.00 10.00	0.00 0.00
	L. FBSG 10,100.0 10,164.1	21.93 28.34	180.00 180.00	9,987.0 10,045.0	747.4 720.2	-1,007.4 -1,007.4	-756.2 -728.9	10.00 10.00	10.00 10.00	0.00 0.00
	L4.3: SBS 0 10,200.0	31.93	180.00	10,076.0	702.2	-1,007.4	-710.9	10.00	10.00	0.00
	10,300.0 10,400.0 10,500.0 10,600.0 10,601.0	41.93 51.93 61.93 71.93 72.03	180.00 180.00 180.00 180.00 180.00	10,155.9 10,224.1 10,278.6 10,317.7 10,318.0	642.2 569.2 485.5 393.6 392.7	-1,007.4 -1,007.4 -1,007.4 -1,007.4 -1,007.4	-650.9 -578.0 -494.3 -402.4 -401.5	10.00 10.00 10.00 10.00 10.00	10.00 10.00 10.00 10.00 10.00	0.00 0.00 0.00 0.00 0.00
	L4.1: SBS0									
	10,700.0 10,773.9	81.93 89.32	180.00 180.00	10,340.3 10,345.9	296.3 222.6	-1,007.4 -1,007.4	-305.1 -231.4	10.00 10.00	10.00 10.00	0.00 0.00
	Start DLS : 10,775.2	2.00 TFO 90.42 89.45	180.00	10,345.9	221.4	-1,007.4	-230.2	10.00	10.00	0.00
	Start 1304 ⁻ 10,780.7	1.1 hold at 107 90.00	75.2 MD 180.00	10,346.0	215.9	-1,007.4	-224.7	10.00	10.00	0.00

Database: EDM 5000.14 Server
Company: Matador Production Company

Project: Antelope Ridge
Site: Marlan Downey State

Well: Marlan Downey State Com #121H

Wellbore: Wellbore #1
Design: State Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Marlan Downey State Com #121H

KB @ 3574.5usft KB @ 3574.5usft

Grid

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)
10,800.0	90.00	179.61	10,346.0	196.6	-1,007.3	-205.4	2.00	0.00	-2.00
10,827.7	90.00	179.06	10,346.0	168.9	-1,007.0	-177.6	2.00	0.00	-2.00
10,900.0	90.00	179.06	10,346.0	96.6	-1,005.8	-105.4	0.00	0.00	0.00
11,000.0	90.00	179.06	10,346.0	-3.4	-1,004.2	-5.4	0.00	0.00	0.00
11,100.0	90.00	179.06	10,346.0	-103.4	-1,002.5	94.6	0.00	0.00	0.00
11,200.0	90.00	179.06	10,346.0	-203.4	-1,000.9	194.6	0.00	0.00	0.00
11,300.0	90.00	179.06	10,346.0	-303.3	-999.2	294.6	0.00	0.00	0.00
11,400.0	90.00	179.06	10,346.0	-403.3	-997.6	394.6	0.00	0.00	0.00
11,500.0	90.00	179.06	10,346.0	-503.3	-996.0	494.6	0.00	0.00	0.00
11,600.0	90.00	179.06	10,346.0	-603.3	-994.3	594.6	0.00	0.00	0.00
11,700.0	90.00	179.06	10,346.0	-703.3	-992.7	694.6	0.00	0.00	0.00
11,800.0	90.00	179.06	10,346.0	-803.3	-991.0	794.6	0.00	0.00	0.00
11,900.0	90.00	179.06	10,346.0	-903.3	-989.4	894.6	0.00	0.00	0.00
12,000.0	90.00	179.06	10,346.0	-1,003.2	-987.7	994.6	0.00	0.00	0.00
12,100.0	90.00	179.06	10,346.0	-1,103.2	-986.1	1,094.6	0.00	0.00	0.00
12,200.0	90.00	179.06	10,346.0	-1,203.2	-984.5	1,194.6	0.00	0.00	0.00
12,300.0	90.00	179.06	10,346.0	-1,303.2	-982.8	1,294.6	0.00	0.00	0.00
12,400.0	90.00	179.06	10,346.0	-1,403.2	-981.2	1,394.6	0.00	0.00	0.00
12,500.0	90.00	179.06	10,346.0	-1,503.2	-979.5	1,494.6	0.00	0.00	0.00
12,600.0	90.00	179.06	10,346.0	-1,603.2	-977.9	1,594.6	0.00	0.00	0.00
12,700.0	90.00	179.06	10,346.0	-1,703.2	-976.3	1,694.6	0.00	0.00	0.00
12,800.0	90.00	179.06	10,346.0	-1,803.1	-974.6	1,794.6	0.00	0.00	0.00
12,900.0	90.00	179.06	10,346.0	-1,903.1	-973.0	1,894.6	0.00	0.00	0.00
13,000.0	90.00	179.06	10,346.0	-2,003.1	-971.3	1,994.6	0.00	0.00	0.00
13,100.0	90.00	179.06	10,346.0	-2,103.1	-969.7	2,094.6	0.00	0.00	0.00
13,200.0	90.00	179.06	10,346.0	-2,203.1	-968.0	2,194.6	0.00	0.00	0.00
13,300.0	90.00	179.06	10,346.0	-2,303.1	-966.4	2,294.6	0.00	0.00	0.00
13,400.0	90.00	179.06	10,346.0	-2,403.1	-964.8	2,394.5	0.00	0.00	0.00
13,500.0	90.00	179.06	10,346.0	-2,503.0	-963.1	2,494.5	0.00	0.00	0.00
13,600.0	90.00	179.06	10,346.0	-2,603.0	-961.5	2,594.5	0.00	0.00	0.00
13,700.0	90.00	179.06	10,346.0	-2,703.0	-959.8	2,694.5	0.00	0.00	0.00
13,800.0	90.00	179.06	10,346.0	-2,803.0	-958.2	2,794.5	0.00	0.00	0.00
13,900.0	90.00	179.06	10,346.0	-2,903.0	-956.5	2,894.5	0.00	0.00	0.00
14,000.0	90.00	179.06	10,346.0	-3,003.0	-954.9	2,994.5	0.00	0.00	0.00
14,100.0	90.00	179.06	10,346.0	-3,103.0	-953.3	3,094.5	0.00	0.00	0.00
14,200.0	90.00	179.06	10,346.0	-3,203.0	-951.6	3,194.5	0.00	0.00	0.00
14,300.0	90.00	179.06	10,346.0	-3,302.9	-950.0	3,294.5	0.00	0.00	0.00
14,400.0	90.00	179.06	10,346.0	-3,402.9	-948.3	3,394.5	0.00	0.00	0.00
14,500.0	90.00	179.06	10,346.0	-3,502.9	-946.7	3,494.5	0.00	0.00	0.00
14,600.0	90.00	179.06	10,346.0	-3,602.9	-945.1	3,594.5	0.00	0.00	0.00
14,700.0	90.00	179.06	10,346.0	-3,702.9	-943.4	3,694.5	0.00	0.00	0.00
14,800.0	90.00	179.06	10,346.0	-3,802.9	-941.8	3,794.5	0.00	0.00	0.00
14,900.0	90.00	179.06	10,346.0	-3,902.9	-940.1	3,894.5	0.00	0.00	0.00
15,000.0	90.00	179.06	10,346.0	-4,002.8	-938.5	3,994.5	0.00	0.00	0.00
15,100.0	90.00	179.06	10,346.0	-4,102.8	-936.8	4,094.5	0.00	0.00	0.00
15,200.0	90.00	179.06	10,346.0	-4,202.8	-935.2	4,194.5	0.00	0.00	0.00
15,300.0	90.00	179.06	10,346.0	-4,302.8	-933.6	4,294.5	0.00	0.00	0.00
15,400.0	90.00	179.06	10,346.0	-4,402.8	-931.9	4,394.5	0.00	0.00	0.00
15,500.0	90.00	179.06	10,346.0	-4,502.8	-930.3	4,494.5	0.00	0.00	0.00
15,600.0	90.00	179.06	10,346.0	-4,602.8	-928.6	4,594.5	0.00	0.00	0.00
15,700.0	90.00	179.06	10,346.0	-4,702.7	-927.0	4,694.5	0.00	0.00	0.00
15,800.0	90.00	179.06	10,346.0	-4,802.7	-925.4	4,794.5	0.00	0.00	0.00
15,900.0	90.00	179.06	10,346.0	-4,902.7	-923.7	4,894.5	0.00	0.00	0.00
16,000.0	90.00	179.06	10,346.0	-5,002.7	-922.1	4,994.5	0.00	0.00	0.00

Database: EDM 5000.14 Server
Company: Matador Production Company

Project: Antelope Ridge
Site: Marlan Downey State

Well: Marlan Downey State Com #121H

Wellbore: Wellbore #1
Design: State Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Marlan Downey State Com #121H

KB @ 3574.5usft KB @ 3574.5usft

Grid

Jesign.	State Flail #								
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)
16,100.0	90.00	179.06	10,346.0	-5,102.7	-920.4	5,094.5	0.00	0.00	0.00
16,200.0	90.00	179.06	10,346.0	-5,202.7	-918.8	5,194.5	0.00	0.00	0.00
16,300.0	90.00	179.06	10,346.0	-5,302.7	-917.1	5,294.5	0.00	0.00	0.00
16,400.0	90.00	179.06	10,346.0	-5,402.7	-915.5	5,394.5	0.00	0.00	0.00
16,500.0	90.00	179.06	10,346.0	-5,502.6	-913.9	5,494.5	0.00	0.00	0.00
16,600.0	90.00	179.06	10,346.0	-5,602.6	-912.2	5,594.5	0.00	0.00	0.00
16,700.0	90.00	179.06	10,346.0	-5,702.6	-910.6	5,694.5	0.00	0.00	0.00
16,800.0	90.00	179.06	10,346.0	-5,802.6	-908.9	5,794.4	0.00	0.00	0.00
16,900.0	90.00	179.06	10,346.0	-5,902.6	-907.3	5,894.4	0.00	0.00	0.00
17,000.0	90.00	179.06	10,346.0	-6,002.6	-905.7	5,994.4	0.00	0.00	0.00
17,100.0	90.00	179.06	10,346.0	-6,102.6	-904.0	6,094.4	0.00	0.00	0.00
17,200.0	90.00	179.06	10,346.0	-6,202.5	-902.4	6,194.4	0.00	0.00	0.00
17,300.0	90.00	179.06	10,346.0	-6,302.5	-900.7	6,294.4	0.00	0.00	0.00
17,400.0	90.00	179.06	10,346.0	-6,402.5	-899.1	6,394.4	0.00	0.00	0.00
17,500.0	90.00	179.06	10,346.0	-6,502.5	-897.4	6,494.4	0.00	0.00	0.00
17,600.0	90.00	179.06	10,346.0	-6,602.5	-895.8	6,594.4	0.00	0.00	0.00
17,700.0	90.00	179.06	10,346.0	-6,702.5	-894.2	6,694.4	0.00	0.00	0.00
17,800.0	90.00	179.06	10,346.0	-6,802.5	-892.5	6,794.4	0.00	0.00	0.00
17,900.0	90.00	179.06	10,346.0	-6,902.5	-890.9	6,894.4	0.00	0.00	0.00
18,000.0	90.00	179.06	10,346.0	-7,002.4	-889.2	6,994.4	0.00	0.00	0.00
18,100.0	90.00	179.06	10,346.0	-7,102.4	-887.6	7,094.4	0.00	0.00	0.00
18,200.0	90.00	179.06	10,346.0	-7,202.4	-885.9	7,194.4	0.00	0.00	0.00
18,300.0	90.00	179.06	10,346.0	-7,302.4	-884.3	7,294.4	0.00	0.00	0.00
18,400.0	90.00	179.06	10,346.0	-7,402.4	-882.7	7,394.4	0.00	0.00	0.00
18,500.0	90.00	179.06	10,346.0	-7,502.4	-881.0	7,494.4	0.00	0.00	0.00
18,600.0	90.00	179.06	10,346.0	-7,602.4	-879.4	7,594.4	0.00	0.00	0.00
18,700.0	90.00	179.06	10,346.0	-7,702.3	-877.7	7,694.4	0.00	0.00	0.00
18,800.0	90.00	179.06	10,346.0	-7,802.3	-876.1	7,794.4	0.00	0.00	0.00
18,900.0	90.00	179.06	10,346.0	-7,902.3	-874.5	7,894.4	0.00	0.00	0.00
19,000.0	90.00	179.06	10,346.0	-8,002.3	-872.8	7,994.4	0.00	0.00	0.00
19,100.0	90.00	179.06	10,346.0	-8,102.3	-871.2	8,094.4	0.00	0.00	0.00
19,200.0	90.00	179.06	10,346.0	-8,202.3	-869.5	8,194.4	0.00	0.00	0.00
19,300.0	90.00	179.06	10,346.0	-8,302.3	-867.9	8,294.4	0.00	0.00	0.00
19,400.0	90.00	179.06	10,346.0	-8,402.3	-866.2	8,394.4	0.00	0.00	0.00
19,500.0	90.00	179.06	10,346.0	-8,502.2	-864.6	8,494.4	0.00	0.00	0.00
19,600.0	90.00	179.06	10,346.0	-8,602.2	-863.0	8,594.4	0.00	0.00	0.00
19,700.0	90.00	179.06	10,346.0	-8,702.2	-861.3	8,694.4	0.00	0.00	0.00
19,800.0	90.00	179.06	10,346.0	-8,802.2	-859.7	8,794.4	0.00	0.00	0.00
19,900.0	90.00	179.06	10,346.0	-8,902.2	-858.0	8,894.4	0.00	0.00	0.00
20,000.0	90.00	179.06	10,346.0	-9,002.2	-856.4	8,994.4	0.00	0.00	0.00
20,100.0	90.00	179.06	10,346.0	-9,102.2	-854.8	9,094.4	0.00	0.00	0.00
20,200.0	90.00	179.06	10,346.0	-9,202.1	-853.1	9,194.3	0.00	0.00	0.00
20,300.0	90.00	179.06	10,346.0	-9,302.1	-851.5	9,294.3	0.00	0.00	0.00
20,400.0	90.00	179.06	10,346.0	-9,402.1	-849.8	9,394.3	0.00	0.00	0.00
20,500.0	90.00	179.06	10,346.0	-9,502.1	-848.2	9,494.3	0.00	0.00	0.00
20,600.0	90.00	179.06	10,346.0	-9,602.1	-846.5	9,594.3	0.00	0.00	0.00
20,700.0	90.00	179.06	10,346.0	-9,702.1	-844.9	9,694.3	0.00	0.00	0.00
20,800.0	90.00	179.06	10,346.0	-9,802.1	-843.3	9,794.3	0.00	0.00	0.00
20,900.0	90.00	179.06	10,346.0	-9,902.0	-841.6	9,894.3	0.00	0.00	0.00
21,000.0	90.00	179.06	10,346.0	-10,002.0	-840.0	9,994.3	0.00	0.00	0.00
21,100.0	90.00	179.06	10,346.0	-10,102.0	-838.3	10,094.3	0.00	0.00	0.00
21,200.0	90.00	179.06	10,346.0	-10,202.0	-836.7	10,194.3	0.00	0.00	0.00
21,300.0	90.00	179.06	10,346.0	-10,302.0	-835.0	10,294.3	0.00	0.00	0.00
21,400.0	90.00	179.06	10,346.0	-10,402.0	-833.4	10,394.3	0.00	0.00	0.00

Database: EDM 5000.14 Server
Company: Matador Production Company

Project: Antelope Ridge
Site: Marlan Downey State

Well: Marlan Downey State Com #121H

Wellbore: Wellbore #1
Design: State Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Marlan Downey State Com #121H

KB @ 3574.5usft KB @ 3574.5usft

Grid Minimum Curvature

ooigii.									
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)
21,500.0	90.00	179.06	10,346.0	-10,502.0	-831.8	10,494.3	0.00	0.00	0.00
21,600.0	90.00	179.06	10,346.0	-10,602.0	-830.1	10,594.3	0.00	0.00	0.00
21,700.0	90.00	179.06	10,346.0	-10,701.9	-828.5	10,694.3	0.00	0.00	0.00
21,800.0	90.00	179.06	10,346.0	-10,801.9	-826.8	10,794.3	0.00	0.00	0.00
21,900.0	90.00	179.06	10,346.0	-10,901.9	-825.2	10,894.3	0.00	0.00	0.00
22,000.0	90.00	179.06	10,346.0	-11,001.9	-823.6	10,994.3	0.00	0.00	0.00
22,100.0	90.00	179.06	10,346.0	-11,101.9	-821.9	11,094.3	0.00	0.00	0.00
22,200.0	90.00	179.06	10,346.0	-11,201.9	-820.3	11,194.3	0.00	0.00	0.00
22,300.0	90.00	179.06	10,346.0	-11,301.9	-818.6	11,294.3	0.00	0.00	0.00
22,400.0	90.00	179.06	10,346.0	-11,401.8	-817.0	11,394.3	0.00	0.00	0.00
22,500.0	90.00	179.06	10,346.0	-11,501.8	-815.3	11,494.3	0.00	0.00	0.00
22,600.0	90.00	179.06	10,346.0	-11,601.8	-813.7	11,594.3	0.00	0.00	0.00
22,700.0	90.00	179.06	10,346.0	-11,701.8	-812.1	11,694.3	0.00	0.00	0.00
22,800.0	90.00	179.06	10,346.0	-11,801.8	-810.4	11,794.3	0.00	0.00	0.00
22,900.0	90.00	179.06	10,346.0	-11,901.8	-808.8	11,894.3	0.00	0.00	0.00
23,000.0	90.00	179.06	10,346.0	-12,001.8	-807.1	11,994.3	0.00	0.00	0.00
23,100.0	90.00	179.06	10,346.0	-12,101.8	-805.5	12,094.3	0.00	0.00	0.00
23,200.0	90.00	179.06	10,346.0	-12,201.7	-803.9	12,194.3	0.00	0.00	0.00
23,300.0	90.00	179.06	10,346.0	-12,301.7	-802.2	12,294.3	0.00	0.00	0.00
23,400.0	90.00	179.06	10,346.0	-12,401.7	-800.6	12,394.3	0.00	0.00	0.00
23,500.0	90.00	179.06	10,346.0	-12,501.7	-798.9	12,494.2	0.00	0.00	0.00
23,600.0	90.00	179.06	10,346.0	-12,601.7	-797.3	12,594.2	0.00	0.00	0.00
23,700.0	90.00	179.06	10,346.0	-12,701.7	-795.6	12,694.2	0.00	0.00	0.00
23,784.3 BHL - Marla	90.00 In Downey Sta	179.06 ate Com #121	10,346.0 H	-12,786.0	-794.3	12,778.6	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target D - Shape	ip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
VP - Marlan Downey (- plan hits target cen - Point	0.00 ter	0.00	9,773.0	788.9	-1,007.4	486,844.00	794,834.00	32° 20' 5.419 N	103° 22' 43.584 W
BHL - Marlan Downey - plan hits target cen - Point	0.00 ter	0.00	10,346.0	-12,786.0	-794.3	473,269.00	795,047.00	32° 17' 51.078 N	103° 22' 42.512 W

Database: EDM 5000.14 Server
Company: Matador Production Company

Project: Antelope Ridge
Site: Marlan Downey State

Well: Marlan Downey State Com #121H

Wellbore: Wellbore #1
Design: State Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Marlan Downey State Com #121H

KB @ 3574.5usft KB @ 3574.5usft Grid

mations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,985.6	1,984.0	Rustler		0.00	179.50
	2,548.8	2,542.0	Salado (TOP SALT)			179.50
	4,343.1	4,309.0	G30:CS14-CSB (BASE SALT)			179.50
	4,459.8	4,424.0	YATES			179.50
	4,719.8	4,680.0	CAPITAN			179.50
	6,083.5	6,023.0	G26: Bell Cyn.			179.50
	6,389.2	6,324.0	G13: Cherry Cyn.			179.50
	7,572.1	7,489.0	G7: Brushy Cyn.			179.50
	8,920.6	8,817.0	G4: BSGL (CS9)			179.50
	9,090.1	8,984.0	L8.2: U. Avalon Shale			179.50
	9,219.4	9,112.0	L6.3: Avalon Carb			179.50
	9,690.7	9,582.0	L5.3: FBSC			179.50
	9,913.7	9,805.0	L5.1: FBSG			179.50
	9,994.4	9,885.0	M. FBSG			179.50
	10,080.7	9,968.0	L. FBSG			179.50
	10,164.1	10,044.0	L4.3: SBSC			179.50
	10,601.0	10,317.0	L4.1: SBSG			179.50

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coor +N/-S (usft)	rdinates +E/-W (usft)	Comment
1,500.0	,	0.0	0.0	Start Build 1.00
2,500.0	,	53.7	-68.5	Start 6088.5 hold at 2500.0 MD
8,588.5	8,490.9	705.5	-900.9	Start Drop -1.50
9,255.2	9,148.5	772.9	- 987.1	Start 618.8 hold at 9255.2 MD
9,873.9	9,766.2	788.9	-1,007.4	Start Build 10.00
10,773.9	10,345.9	222.6	-1,007.4	Start DLS 2.00 TFO 90.42
10,775.2	10,345.9	221.4	-1,007.4	Start 13041.1 hold at 10775.2 MD
23,816.3				TD at 23816.3