Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

Online Phone Directory

Depth to Ground water

https://www.emnrd.nm.gov/ocd/contact-us

## **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 382970

Distance to nearest surface water

		APPLICA	TION FOR PER	MIT TO	DRILL, RE-	ENTER, DEEPI	EN, PLUGBAC	K, OR AI	DD A ZON	E		
	me and Address TADOR PRODUCTIO	N COMPANY							2. OGRIE	Number 228937		
_	e Lincoln Centre las, TX 75240								3. API Nu	umber 30-025-54347	,	
4. Property Cod 337	de '039		5. Property Name Cimarron	State Co	om				6. Well N	lo. 1143		
					7. Surf	ace Location						
UL - Lot	Section	Township	Range		Lot Idn	Feet From	N/S Line	Feet From	m	E/W Line	County	
Α	16	19	S 3	34E		395	N		1105	E		Lea
				:	8. Proposed B	ottom Hole Locat	ion					
UL - Lot	Section	Township	Range		Lot Idn	Feet From	N/S Line	Feet Fro		E/W Line	County	
В	16	19	S 3	4E	В	100	N		2310	E		Lea
					9. Poo	I Information						
QUAIL RIDG	E;BONE SPRING									50460		
					Additional	Well Information						
11. Work Type		12. Well Type	е	13. Cable	e/Rotary		14. Lease Type	1	15. Ground Lev	vel Elevation		
Nev	w Well	O	L				State		382	.6		
16. Multiple		17. Proposed	Depth	18. Form	ation		19. Contractor	2	20. Spud Date			
N		20	)594		Bone Spring				4/1/	2025		

 ${\ensuremath{\overline{\boxtimes}}}$  We will be using a closed-loop system in lieu of lined pits

21 Proposed Casing and Coment Program

Distance from nearest fresh water well

				Z I. I Toposcu Gusing	g and ocinicit i rogram		
	Туре	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
I	Surf	20	13.375	54.5	1795	2077	0
ſ	Int1	9.875	7.625	29.7	8768	1918	0
ſ	Prod	6.75	5.5	20	20594	1102	8568

**Casing/Cement Program: Additional Comments** 

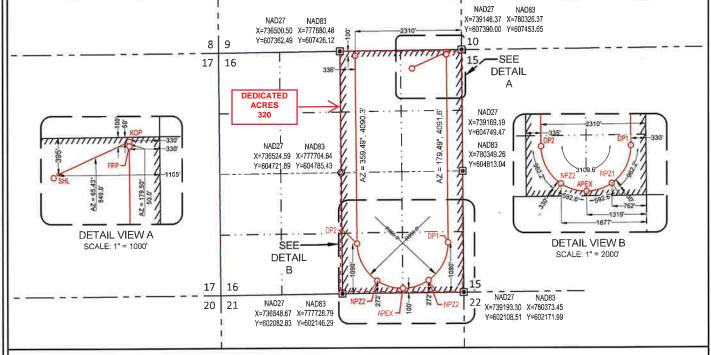
Option to drill surface hole with surface setting rig. Option to cement surface casing offline. Option to run DV tool and packer.

	22.1 Toposca Blowcatt Teve	ndon'i rogiani	
Туре	Working Pressure	Test Pressure	Manufacturer
Annular	5000	3000	Cameron
Double Ram	10000	5000	Cameron
Pipe	10000	5000	Cameron

knowledge and	belief. I have complied with 19.15.14.9 (A)	true and complete to the best of my  NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSERVATIO	on division	
Printed Name:	Electronically filed by Brett A Jen	nings	Approved By:	Matthew Gomez		
Title:	Regulatory Analyst		Title:			
Email Address: brett.jennings@matadorresources.com		es.com	Approved Date: 2/17/2025 Expiration Date: 2/17/2027			
Date:	2/10/2025	Phone: 972-629-2160	Conditions of Approval Attached			

<u>C-102</u>			Engran			w Mexico ral Resources	Denartment		Revise	ed July 9, 2024
Submit Electronic Via OCD Permitt						TION DIVIS		-	Initial Submittal	
			Ì	712 001	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Submittal	Amended Report	
								Type:	As Drilled	
		V	ELL LO	CATIO	N AND A	CREAGE DE	EDICATION	N PLAT		
API Number	2005 5		Pool Code			Name				
	)-025-54	1347	Property Name	50460		QUA	AIL RIDGE;BO	ONE SPRING	Well Number	
Property Code OGRID No.	337039		Operator Name		CIMARRO	N STATE COI	М			143H
228937			Operator Ivallie	MATAI	OOR PRO	DUCTION COL	MPANY			3826'
Surface Owner:X	State Fee 7	Γribal Federal				Mineral Owner: X	State Fee Tribal	Federal		
					Surfac	e Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N	S Feet from the E/W	Latitude		Longitude	County
Α	16	19-S	34-E	=	395' N	1105' E	N 32.6664	374 W 1	03.5602919	LEA
						Iole Location	*		T 10 1	Country
UL or lot no	Section	Township	Range	Lot Idn	Feet from the N		Latitude N 32.6672	277   10/ 4	Longitude 03.5642083	County LEA
В	16	19-S	34-E	-	100' N	2310' E	N 32.0072	3//   ٧٧	03.3042063	LLA
Dedicated Acres	Infill or Defi	ning Well Defin	ing Well API			Overlapping Spacing	Unit (Y/N)	Consolida	ited Code	
320	-	-					·-		C	
Order Numbers						Well Setbacks are un	nder Common Ownersh	nip: Yes N	No	
					Kick Off	Point (KOP)				
UL or lot no	Section	Township	Range	Lot Idn		S Feet from the E/W	Latitude		Longitude	County
Α	16	19-S	34-E	-	50' N	330' E	N 32.6673	922 W 1	03.5577745	LEA
					First Tak	e Point (FTP)				
UL or lot no	Section	Township	Range	Lot Idn		S Feet from the E/W	Latitude		Longitude	County
A	16	19-S	34-E	-	100' N	330' E	N 32.6672	548   W	03.5577743	LEA
						e Point (LTP)				
UL or lot no	Section	Township	Range	Lot Idn	l .	S Feet from the E/W	Latitude	10	Longitude	County
В	16	19-S	34-E	14	100' N	2310' E	N 32.6672	377 W 1	03.5642083	LEA
Unitized Area or A	rea of Uniform I	ntrest		Spacing Unity	Type Horize	ontal Vertical	Ground	l Floor Elevation		
I hereby certi best of my kr that this orga in the land i well at this lo or unleased m pooling order If this well is	fy that the ir touledge and nization eith ncluding the ocation pursus tineral intere- heretofore ent s a horizontal	proposed bottor int to a contre it, or to a voli ered by the di well, I furthe	n hole location ict with an o untary pooling vision. er certify that	wher of a wo agreement o this organiz	ght to arill thinking interest or a compulsory ation has	I hereby certify notes of actual is true and	CERTIFICATION OF THE STATE OF T		this plat was plotte ny supervision, and	d from field that the same
received The o	consent of at eral interest t he well's com	least one lesse in each tract ( pleted interval	e or owner of in the target will be locate	a working in pool or formed or obtained	nterest or ution) in whici i a compulsory		146724 10NAL SVI			
Signature	in		//20	123		Signature and Seal	of Professional Survey	or Da	te	
HAWKS I-	LOLDER									
						Certificate Number	Date	of Survey		
HAWK). H E-mail Address	locken em	ATABORRE	sources. C	m				11/07/2024		

#### State of New Mexico C-102 Revised July 9, 2024 Energy, Minerals & Natural Resources Department Submit Electronically OIL CONSERVATION DIVISION Via OCD Permitting X Initial Submittal Submittal Amended Report Type: As Drilled Property Name and Well Number **CIMARRON STATE COM 1143H**



#### **SURFACE LOCATION (SHL)**

NEW MEXICO EAST NAD 1983 X=779225 Y=607047 LAT.: N 32.6664374 LONG.: W 103.5602919 NAD 1927 X=738045 Y=606984 LAT.: N 32.6663141 LONG.: W 103.5597982 395' FNL 1105' FEL

#### **DEFLECTION POINT (DP1)**

**NEW MEXICO EAST** NAD 1983 X=780034 Y=603259 LAT.: N 32.6560088 LONG.: W 103.5577534 NAD 1927 X=738853 Y=603195 LAT.: N 32.6558854 LONG.: W 103.5572599 1090' FSL 330' FEL

#### **NON PERF. ZONE (NPZ2)**

NEW MEXICO EAST NAD 1983 X=778494 Y=602426 LAT.: N 32.6537512 LONG.: W 103.5627759 NAD 1927 X=737314 Y=602363 LAT.: N 32.6536279 LONG.: W 103.5622823 272' FSL 1877' FEL

#### KICK OFF POINT (KOP)

**NEW MEXICO EAST** NAD 1983 X=779997 Y=607400 LAT.: N 32.6673922 LONG.: W 103.5577745 NAD 1927 X=738817 Y=607337 LAT.: N 32.6672689 LONG.: W 103.5572806 50' FNL 330' FEL

#### NON PERF. ZONE (NPZ1)

**NEW MEXICO EAST** NAD 1983 X=779609 Y=602437 LAT.: N 32.6537587 LONG.: W 103.5591511 NAD 1927 X=738429 Y=602373 LAT.: N 32,6536353 LONG.: W 103.5586576 272' FSL 762' FEL

DEFLECTION POINT (DP2) **NEW MEXICO EAST** NAD 1983 X=778054 Y=603240 LAT.: N 32.6559955 LONG.: W 103.5641865 NAD 1927 X=736874 Y=603176 LAT.: N 32.6558722 LONG.: W 103,5636928 1090' FSL 2310' FEL

#### PROPOSED TAKE POINT (PTP)

**NEW MEXICO EAST** NAD 1983 X=779997 Y=607350 LAT.: N 32.6672548 LONG.: W 103.5577743 NAD 1927 X=738817 Y=607287 LAT.: N 32.6671314 LONG.: W 103.5572804 100' FNL 330' FEL

#### **U-TURN APEX (APEX)**

**NEW MEXICO EAST** NAD 1983 X=779053 Y=602259 LAT.: N 32.6532818 LONG.: W 103.5609621 NAD 1927 X=737873 Y=602196 LAT.: N 32.6531585 LONG.: W 103.5604686 100' FSL 1319' FEL

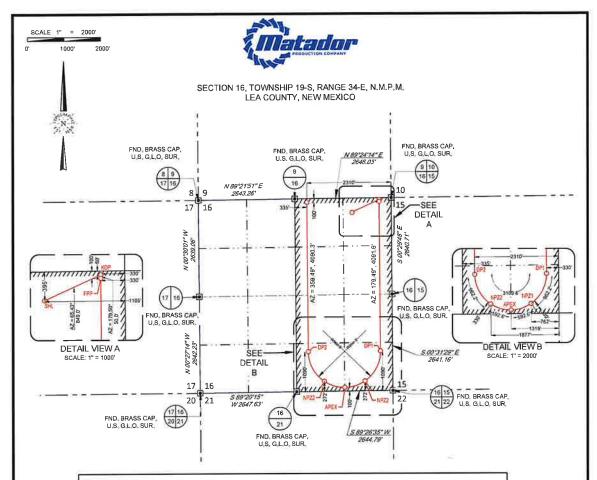
#### LAST PERF. POINT (LPP) **BOTTOM HOLE LOCATION (BHL)**

NEW MEXICO EAST NAD 1983 X=778017 Y=607330 LAT.: N 32.6672377 LONG.: W 103.5642083 NAD 1927 X=736837 Y=607266 LAT.: N 32.6671145 LONG.: W 103.5637141 100' FNL 2310' FEL

#### SURVEYORS CERTIFICATION

I hereby certify that the well location shown on this plat wax plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 11/07/2024





#### SURFACE LOCATION (SHL)

NEW MEXICO EAST NAD 1983 X=779225 Y=607047 LAT.: N 32,6664374 LONG.: W 103.5602922 790' FNL 1105' FEL

#### DEFLECTION POINT (DP1)

NEW MEXICO EAST NAD 1983 X=780034 Y=603259 LAT.: N 32,6560088 LONG.: W 103.5577534 1090' FSL 330' FEL

#### NON PERF. ZONE (NPZ2)

NEW MEXICO EAST NAD 1983 X=778494 Y=602426 LAT.: N 32,6537512 LONG.: W 103,5627759 272' FSL 1877' FEL

#### KICK OFF POINT (KOP)

NEW MEXICO EAST NAD 1983 X=779997 Y=607400 LAT.: N 32.6673922 LONG.: W 103,5577745 50' FNL 330' FEL

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NEW MEXICO EAST NAD 1983 X=779609 Y=602437 LAT.: N 32.6537587 LONG.: W 103,5591511 272' FSL 762' FEL

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NEW MEXICO EAST NAD 1983 X=779997 Y=607350 LAT.: N 32.6672548 LONG.: W 103.5577743 100' FNL 330' FEL

#### U-TURN APEX (APEX)

NEW MEXICO EAST NAD 1983 X=779053 Y=602259 LAT.: N 32,6532818 LONG.: W 103,5609621 100' FSL 1319' FEL

#### LAST PERF. POINT (LPP) DEFLECTION POINT (DP2) BOTTOM HOLE LOCATION (BHL)

NEW MEXICO EAST NAD 1983 X=778017 Y=607330 LAT.: N 32.6672377 LONG.: W 103.5642083 100' FNL 2310' FEL

CIMARRON STATE COM 1143H LEASE NAME & WELL NO .:

19-S RGE\_ 34-E SURVEY SECTION \_\_\_16\_\_ TWP\_ STATE COUNTY. 395' FNL & 1105' FEL DESCRIPTION

#### DISTANCE & DIRECTION

FROM INT, OF NM-529 N. & US-62, GO SOUTHWEST ON US-62 ±11,9 MILES, THENCE NORTH (RIGHT) ON A LEASE ROAD ±3.0 MILES. THENCE NORTHEAST (RIGHT) ON A LEASE ROAD ±1.0 MILE., THENCE NORTH (LEFT) ON A LEASE ROAD ±0.3 MILES TO A POINT ±471 FEET SOUTHWEST OF THE LOCATION.

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

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

AS OF THE DATE OF SURVEY, ALL ABOVE GROUND APPURTENANCES WITHIN 300' OF THE STAKED LOCATION ARE SHOWN HEREON...



Angel M. Baeza, P.S. No. 25116



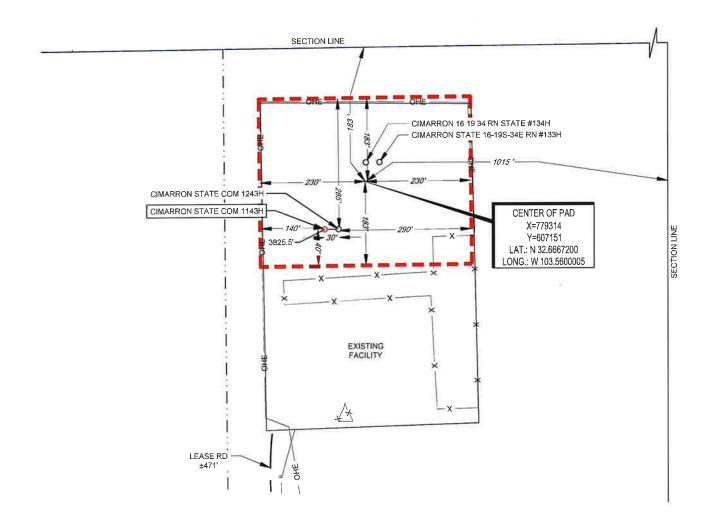
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705 TELEPHONE: (432) 582-1653 OR (800) 767-1653 • FAX (432) 682-1743 WWW.TOPOGRAPHIC.COM LEGEND

SECTION LINE
PROPOSED ROAD
ROAD WAY



DETAIL VIEW SCALE: 1" = 200'

SECTION 16, TOWNSHIP 19-S, RANGE 34-E, N.M.P.M. LEA COUNTY, NEW MEXICO



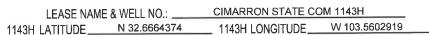


Angel M. Baeza, P.S. No. 25116

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET, ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

ARE NAVUBB, UBLAINED LINKOUGH AN OPUS SOLUTION.
THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERLYSION AND PEPPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY, ONLY THE DATA SHOWN ABOVE IS BEING CERTIFIED TO, ALL OTHER INFORMATION WAS INTENTIONALLY OMITTED, THIS PLAT IS ONLY INTENDED TO BE USED FOR A PERMIT AND IS NOT A BOUNDARY SURVEY, THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"



#### CENTER OF PAD IS 292' FNL & 1015' FEL





491 WINSCOTT ROAD, 58E, 201 - SENSROON, 1EANS, 6126

TELEPHONE: (817) 744-7512 - FAX (817) 744-7554

2903 NORTH BIG SPRING - MIDLAND, TEXAS 79705

TELEPHONE: (432) 682-1653 OR (800) 767-1653 - FAX (432) 682-1743

WWW.TOPOGRAPHIC.COM

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

# 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 382970

#### PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
MATADOR PRODUCTION COMPANY [228937]	30-025-54347
One Lincoln Centre	Well:
Dallas, TX 75240	Cimarron State Com #1143

OCD Reviewer	Condition
matthew.gomez	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.
	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.
matthew.gomez	Cement is required to circulate on both surface and intermediate1 strings of casing.
matthew.gomez	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
matthew.gomez	File As Drilled C-102 and a directional Survey with C-104 completion packet.
matthew.gomez	Administrative order required for non-standard location prior to production.
matthew.gomez	Prior to production of this well a change to the well name/number is required to comply with the OCD well naming convention.

## **Matador Production Company**

Ranger/Arrowhead Cimarron Cimarron State Com 1143H

Wellbore #1 State Plan #1

## **Anticollision Summary Report**

22 January, 2025

#### **Anticollision Summary Report**

TVD Reference:

MD Reference:

Company: Matador Production Company

Project: Ranger/Arrowhead

Cimarron Reference Site: 0.0 usft Site Error:

Reference Well: Cimarron State Com 1143H

Well Error: 0.0 usft

Reference Wellbore Wellbore #1

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

Well Cimarron State Com 1143H

KB @ 3854.5usft KB @ 3854.5usft

Grid

North Reference: Minimum Curvature **Survey Calculation Method:** 

Output errors are at 2.00 sigma

EDM 5000.14 Single User Db Database:

Offset TVD Reference: Offset Datum

Reference State Plan #1

Filter type: NO GLOBAL FILTER: Using user defined selection & filtering criteria

Interpolation Method: Stations Error Model: **ISCWSA** 

Depth Range: Unlimited Scan Method: Closest Approach 3D Maximum center-center distance of 10,000.0 usft Results Limited by: Error Surface: Pedal Curve

Warning Levels Evaluated at: 2.00 Sigma Casing Method: Not applied

Date 1/22/2025 **Survey Tool Program** 

> From То

(usft) (usft) Survey (Wellbore) **Tool Name** Description

0.0 20,593.9 State Plan #1 (Wellbore #1) MWD OWSG MWD - Standard

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Dista Between Centres (usft)	nce Between Ellipses (usft)	Separation Factor	Warning
Cimarron						
Cimarron State Com 1243H - Wellbore #1 - State Plan # Cimarron State Com 1243H - Wellbore #1 - State Plan #	1,576.0 6,827.3	1,574.3 6,822.4	30.0 53.3	19.2 1.2	2.774 CC 1.024 Level	2, ES, SF
Cimarron 1621						
Cimarron 1621 Fed Com #131H - Wellbore #1 - BLM Pla Cimarron 1621 Fed Com #131H - Wellbore #1 - BLM Pla Cimarron 1621 Fed Com #131H - Wellbore #1 - BLM Pla Cimarron 1621 Fed Com #132H - Wellbore #1 - BLM Pla Cimarron 1621 Fed Com #201H - Wellbore #1 - BLM PLa Cimarron 1621 Fed Com #201H - Wellbore #1 - BLM PLa Cimarron 1621 Fed Com #202H - Wellbore #1 - BLM Pla Cimarron State #133H - Wellbore #1 - Wellbore #1 Cimarron State #134H - Wellbore #1 - Wellbore #1 Cimarron State #134H - Wellbore #1 - Wellbore #1	16,050.0 20,591.9 20,594.1 20,594.1 16,100.0 20,594.1 20,594.1 2,132.3 20,594.1 2,911.8 9,050.0	15,124.8 9,366.4 9,366.6 9,432.9 15,166.4 9,527.9 9,504.7 2,124.2 9,498.1 2,899.4 9,044.5	3,046.4 2,585.4 2,585.4 1,282.7 2,591.7 2,069.7 766.7 149.0 855.9 69.3 100.0	2,896.2 2,473.5 2,473.5 1,170.4 2,447.3 1,956.5 653.3 134.3 744.0 49.0 36.0	20.278 SF 23.102 CC 23.097 ES 11.417 CC, E 17.952 SF 18.286 CC, E 6.760 CC, E 10.129 CC, E 7.650 SF 3.409 CC 1.562 ES, SI	S S, SF S
Offset Ranger Wells						
Chukar State #001 - Wellbore #1 - Wellbore #1 Chukar State #001 - Wellbore #1 - Wellbore #1 Pipeline 16 State - Wellbore #1 - Wellbore #1	14,850.0 15,871.7 18,716.8	8,134.0 8,134.0 9,377.8	1,680.1 1,266.5 309.5	1,451.8 1,160.3 49.3	7.360 SF 11.928 CC, E 1.190 Level	S 2, CC, ES, SF

#### **Anticollision Summary Report**

MD Reference:

Company: Matador Production Company

Project: Ranger/Arrowhead

Cimarron Reference Site: Site Error: 0.0 usft

Reference Well: Cimarron State Com 1143H

Well Error: 0.0 usft Reference Wellbore Wellbore #1 Reference Design:

State Plan #1

Local Co-ordinate Reference: Well Cimarron State Com 1143H

KB @ 3854.5usft TVD Reference:

KB @ 3854.5usft North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma

EDM 5000.14 Single User Db Database:

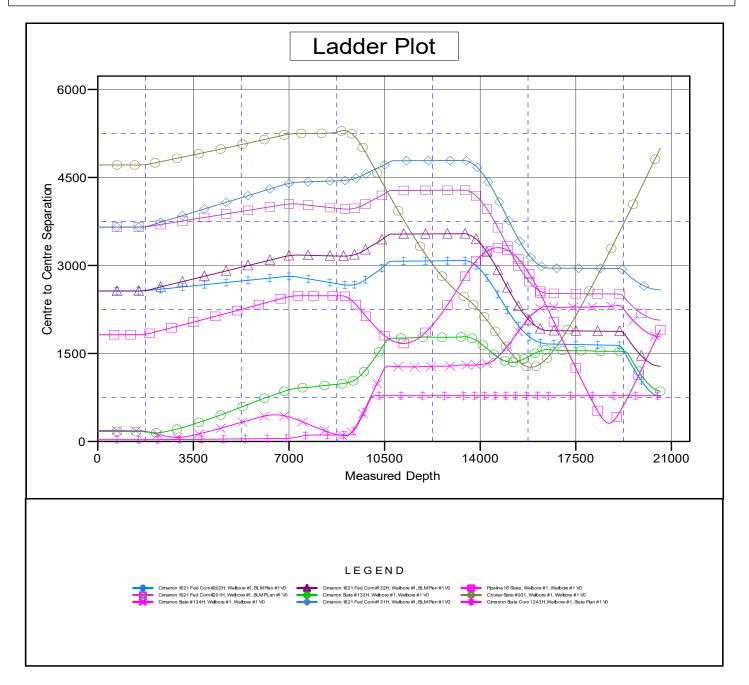
Offset TVD Reference: Offset Datum

Reference Depths are relative to KB @ 3854.5usft Offset Depths are relative to Offset Datum Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Cimarron State Com 1143H

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

Grid Convergence at Surface is: 0.42°



#### **Anticollision Summary Report**

Company: Matador Production Company

Project: Ranger/Arrowhead

Reference Site: Cimarron Site Error: 0.0 usft

Cimarron State Com 1143H Reference Well:

Reference Depths are relative to KB @ 3854.5usft

Offset Depths are relative to Offset Datum Central Meridian is 104° 20' 0.000 W

Well Error: 0.0 usft Reference Wellbore Wellbore #1

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

Well Cimarron State Com 1143H TVD Reference: KB @ 3854.5usft KB @ 3854.5usft MD Reference:

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

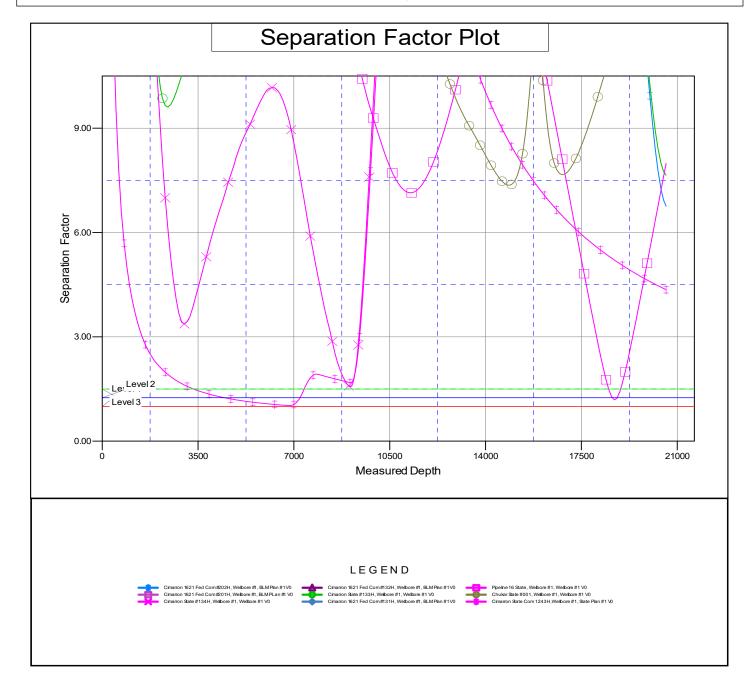
Output errors are at 2.00 sigma

EDM 5000.14 Single User Db Database: Offset TVD Reference: Offset Datum

Coordinates are relative to: Cimarron State Com 1143H

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

Grid Convergence at Surface is: 0.42°



## **Matador Production Company**

Ranger/Arrowhead Cimarron Cimarron State Com 1143H

Wellbore #1

Plan: State Plan #1

## **Standard Planning Report**

22 January, 2025

EDM 5000.14 Single User Db Database: Company: Matador Production Company

Project: Ranger/Arrowhead Site: Cimarron

Well: Cimarron State Com 1143H

Wellbore: Wellbore #1 State Plan #1 Design:

**Local Co-ordinate Reference:** 

**TVD Reference:** MD Reference: North Reference:

**Survey Calculation Method:** 

Well Cimarron State Com 1143H

KB @ 3854.5usft KB @ 3854.5usft

Grid

Minimum Curvature

Project Ranger/Arrowhead

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

New Mexico East 3001 Map Zone:

System Datum:

Mean Sea Level

Cimarron Site

Northing: 606,983.56 usft Site Position: Latitude: 32° 39' 58.731 N From: Lat/Long Easting: 738,044.59 usft Longitude: 103° 33' 35.274 W **Position Uncertainty:** 0.0 usft Slot Radius: 13-3/16 " **Grid Convergence:** 0.42°

Well Cimarron State Com 1143H

**Well Position** +N/-S 0.0 usft Northing: 606,983.56 usft Latitude: 32° 39' 58.731 N +E/-W 0.0 usft Easting: 738,044.59 usft Longitude: 103° 33' 35.274 W

**Position Uncertainty** 0.0 usft Wellhead Elevation: **Ground Level:** 3,826.0 usft

Wellbore Wellbore #1 Magnetics **Model Name** Sample Date Declination **Dip Angle** Field Strength (°) (°) (nT) 47,935.76256960 IGRF2015 12/31/2019 6.70 60.43

State Plan #1 Design 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 0.0 179.49

Plan Survey Tool Program 1/22/2025 Date **Depth From** Depth To (usft) (usft) Survey (Wellbore) **Tool Name** Remarks 0.0 20,593.9 State Plan #1 (Wellbore #1) MWD OWSG MWD - Standard

Database: EDM 5000.14 Single User Db Company: Matador Production Company

Project: Ranger/Arrowhead
Site: Cimarron

Well: Cimarron State Com 1143H

Wellbore: Wellbore #1

Design: State Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Cimarron State Com 1143H

KB @ 3854.5usft KB @ 3854.5usft

Grid

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,900.0	8.00	61.92	1,898.7	13.1	24.6	2.00	2.00	0.00	61.92	
6,827.3	8.00	61.92	6,778.1	335.9	629.6	0.00	0.00	0.00	0.00	
7,360.6	0.00	0.00	7,309.7	353.4	662.4	1.50	-1.50	0.00	180.00	
8,918.0	0.00	0.00	8,867.0	353.4	662.4	0.00	0.00	0.00	0.00	KOP - Cimarron State
9,818.0	90.00	171.41	9,440.0	-213.1	748.0	10.00	10.00	0.00	171.41	
10,221.8	90.00	179.49	9,440.0	-615.3	780.0	2.00	0.00	2.00	90.01	
13,395.2	90.00	179.49	9,440.0	-3,788.6	808.4	0.00	0.00	0.00	0.00	DP1 - Cimarron State
14,940.7	90.00	268.92	9,440.0	-4,787.4	-163.1	5.79	0.00	5.79	90.00	
16,503.8	90.00	359.48	9,440.0	-3,807.6	-1,170.6	5.79	0.00	5.79	90.00	DP2 - Cimarron State
20,594.1	90.00	359.48	9,440.0	282.6	-1,207.6	0.00	0.00	0.00	0.00	

Database: EDM 5000.14 Single User Db Company: Matador Production Company

Project: Ranger/Arrowhead
Site: Cimarron

Well: Cimarron State Com 1143H

Wellbore: Wellbore #1

Design: State Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well Cimarron State Com 1143H

KB @ 3854.5usft KB @ 3854.5usft

Grid Minimum Curvature

Design:	State Plan #1								
Planned Survey									
Planned Survey									
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
0.0 100.0	0.00 0.00	0.00 0.00	0.0 100.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00 0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	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 2.0 1,600.0	2.00	61.92	1,600.0	0.8	1.5	-0.8	2.00	2.00	0.00
1,700.0	4.00	61.92	1,699.8	3.3	6.2	-3.2	2.00	2.00	0.00
1,800.0	6.00	61.92	1,799.5	7.4	13.8	-3.2 -7.3	2.00	2.00	0.00
1,900.0	8.00	61.92	1,898.7	13.1	24.6	-12.9	2.00	2.00	0.00
,	old at 1900.0 M		1,000.1	10.1	27.0	-12.0	2.00	2.00	3.00
2,000.0	8.00	61.92	1,997.7	19.7	36.9	-19.3	0.00	0.00	0.00
2,100.0	8.00	61.92	2,096.8	26.2	49.2	-25.8	0.00	0.00	0.00
2,200.0	8.00	61.92	2,195.8	32.8	61.4	-32.2	0.00	0.00	0.00
2,300.0	8.00	61.92	2,294.8	39.3	73.7	-38.7	0.00	0.00	0.00
2,400.0	8.00	61.92	2,393.8	45.9	86.0	-45.1	0.00	0.00	0.00
2,500.0	8.00	61.92	2,492.9	52.4	98.3	-51.6	0.00	0.00	0.00
2,600.0	8.00	61.92	2,591.9	59.0	110.5	-58.0	0.00	0.00	0.00
2,700.0	8.00	61.92	2,690.9	65.5	122.8	-64.4	0.00	0.00	0.00
2,800.0	8.00	61.92	2,789.9	72.1	135.1	-70.9	0.00	0.00	0.00
2,900.0	8.00	61.92	2,889.0	78.6	147.4	-77.3	0.00	0.00	0.00
3,000.0	8.00	61.92	2,988.0	85.2	159.7	-83.8	0.00	0.00	0.00
3,100.0	8.00	61.92	3,087.0	91.7	171.9	-90.2	0.00	0.00	0.00
3,200.0	8.00	61.92	3,186.1	98.3	184.2	-96.7	0.00	0.00	0.00
3,300.0 3,400.0	8.00 8.00	61.92 61.92	3,285.1 3,384.1	104.8 111.4	196.5 208.8	-103.1 -109.5	0.00 0.00	0.00 0.00	0.00 0.00
3,500.0	8.00	61.92	3,483.1	118.0	221.1	-116.0	0.00	0.00	0.00
3,600.0	8.00	61.92	3,582.2	124.5	233.3	-110.0	0.00	0.00	0.00
3,700.0	8.00	61.92	3,681.2	131.1	245.6	-128.9	0.00	0.00	0.00
3,800.0	8.00	61.92	3,780.2	137.6	257.9	-135.3	0.00	0.00	0.00
3,900.0	8.00	61.92	3,879.2	144.2	270.2	-141.7	0.00	0.00	0.00
4,000.0	8.00	61.92	3,978.3	150.7	282.5	-148.2	0.00	0.00	0.00
4,100.0	8.00	61.92	4,077.3	157.3	294.7	-154.6	0.00	0.00	0.00
4,200.0	8.00	61.92	4,176.3	163.8	307.0	-161.1	0.00	0.00	0.00
4,300.0	8.00	61.92	4,275.3	170.4	319.3	-167.5	0.00	0.00	0.00
4,400.0	8.00	61.92	4,374.4	176.9	331.6	-174.0	0.00	0.00	0.00
4,500.0	8.00	61.92	4,473.4	183.5	343.8	-180.4	0.00	0.00	0.00
4,600.0	8.00	61.92	4,572.4	190.0	356.1	-186.8	0.00	0.00	0.00
4,700.0	8.00	61.92	4,671.5	196.6	368.4	-193.3	0.00	0.00	0.00
4,800.0	8.00	61.92	4,770.5	203.1	380.7	-199.7	0.00	0.00	0.00
4,900.0	8.00	61.92	4,869.5	209.7	393.0	-206.2	0.00	0.00	0.00
5,000.0	8.00	61.92	4,968.5	216.2	405.2	-212.6	0.00	0.00	0.00
5,100.0	8.00	61.92	5,067.6	222.8	417.5	-219.1	0.00	0.00	0.00

Database: EDM 5000.14 Single User Db Company: Matador Production Company

Project: Ranger/Arrowhead Site: Cimarron

Well: Cimarron State Com 1143H

Wellbore: Wellbore #1

Design: State Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

ce: KB @ 3854.5usft

KB @ 3854.5usft KB @ 3854.5usft Grid

Well Cimarron State Com 1143H

sign:	State Plan #1								
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)
5,200.0	8.00	61.92	5,166.6	229.3	429.8	-225.5	0.00	0.00	0.00
5,300.0	8.00	61.92	5,265.6	235.9	442.1	-231.9	0.00	0.00	0.00
5,400.0	8.00	61.92	5,364.6	242.4	454.4	-238.4	0.00	0.00	0.00
5,500.0	8.00	61.92	5,463.7	249.0	466.6	-244.8	0.00	0.00	0.00
5,600.0	8.00	61.92	5,562.7	255.5	478.9	-251.3	0.00	0.00	0.00
5,700.0	8.00	61.92	5,661.7	262.1	491.2	-257.7	0.00	0.00	0.00
5,800.0	8.00	61.92	5,760.7	268.6	503.5	-264.1	0.00	0.00	0.00
5,900.0	8.00	61.92	5,859.8	275.2	515.7	-270.6	0.00	0.00	0.00
6,000,0	8.00	64.00	E 050 0	2017	E20 0	277.0	0.00	0.00	0.00
6,000.0		61.92	5,958.8	281.7	528.0	-277.0	0.00	0.00	
6,100.0 6,200.0	8.00 8.00	61.92 61.92	6,057.8 6,156.9	288.3 294.8	540.3 552.6	-283.5 -289.9	0.00 0.00	0.00 0.00	0.00 0.00
6,300.0	8.00	61.92	6,255.9	294.6 301.4	564.9	-209.9 -296.4	0.00	0.00	0.00
6,400.0	8.00	61.92	6,354.9	308.0	504.9 577.1	-302.8	0.00	0.00	0.00
6,500.0	8.00	61.92	6,453.9	314.5	589.4	-309.2	0.00	0.00	0.00
6,600.0	8.00	61.92	6,553.0	321.1	601.7	-315.7	0.00	0.00	0.00
6,700.0	8.00	61.92	6,652.0	327.6	614.0	-322.1	0.00	0.00	0.00
6,800.0	8.00	61.92	6,751.0	334.2	626.3	-328.6	0.00	0.00	0.00
6,827.3	8.00	61.92	6,778.1	335.9	629.6	-330.3	0.00	0.00	0.00
Start Drop -									
6,900.0	6.91	61.92	6,850.1	340.4	637.9	-334.7	1.50	-1.50	0.00
7,000.0	5.41	61.92	6,949.6	345.4	647.4	-339.7	1.50	-1.50	0.00
7,100.0	3.91	61.92	7,049.2	349.3	654.6	-343.4	1.50	-1.50	0.00
7,200.0	2.41	61.92	7,149.1	351.9	659.4	-346.0	1.50	-1.50	0.00
7,300.0	0.91	61.92	7,249.0	353.2	662.0	-347.3	1.50	-1.50	0.00
7,360.6	0.00	0.00	7,309.7	353.4	662.4	-347.5	1.50	-1.50	0.00
	hold at 7360.6 N		7.040.0	050.4	000.4	0.47.5	0.00	0.00	0.00
7,400.0	0.00 0.00	0.00 0.00	7,349.0 7,449.0	353.4 353.4	662.4 662.4	-347.5	0.00 0.00	0.00 0.00	0.00
7,500.0 7,600.0	0.00	0.00	7,449.0 7,549.0	353.4 353.4	662.4	-347.5 -347.5	0.00	0.00	0.00 0.00
7,800.0	0.00	0.00	7,549.0 7,649.0	353.4 353.4	662.4	-347.5 -347.5	0.00	0.00	0.00
7,800.0	0.00	0.00	7,749.0	353.4	662.4	-347.5	0.00	0.00	0.00
7,900.0	0.00	0.00	7,849.0	353.4	662.4	-347.5	0.00	0.00	0.00
8,000.0	0.00	0.00	7,949.0	353.4	662.4	-347.5	0.00	0.00	0.00
8,100.0	0.00	0.00	8,049.0	353.4	662.4	-347.5	0.00	0.00	0.00
8,200.0	0.00	0.00	8,149.0	353.4	662.4	-347.5	0.00	0.00	0.00
8,300.0	0.00	0.00	8,249.0	353.4	662.4	-347.5	0.00	0.00	0.00
8,400.0	0.00	0.00	8,349.0	353.4	662.4	-347.5	0.00	0.00	0.00
8,500.0	0.00	0.00	8,449.0	353.4	662.4	-347.5	0.00	0.00	0.00
8,600.0	0.00	0.00	8,549.0	353.4	662.4	-347.5	0.00	0.00	0.00
8,700.0	0.00	0.00	8,649.0	353.4	662.4	-347.5	0.00	0.00	0.00
8,800.0	0.00	0.00	8,749.0	353.4	662.4	-347.5	0.00	0.00	0.00
8,900.0	0.00	0.00	8,849.0	353.4	662.4	-347.5	0.00	0.00	0.00
8,918.0	0.00	0.00	8,867.0	353.4	662.4	-347.5	0.00	0.00	0.00
	0.00 - KOP - Cim								
9,000.0	8.20	171.41	8,948.7	347.7	663.3	-341.7	10.00	10.00	0.00
9,100.0	18.20	171.41	9,046.0	325.1	666.7	-319.2	10.00	10.00	0.00
9,161.6	24.36	171.41	9,103.4	303.0	670.0	-297.0	10.00	10.00	0.00
	ron State Com 1								
9,200.0	28.20	171.41	9,137.8	286.2	672.6	-280.2	10.00	10.00	0.00
9,300.0	38.20	171.41	9,221.3	232.1	680.7	-226.0	10.00	10.00	0.00
9,400.0	48.20	171.41	9,294.1	164.5	690.9	-158.4	10.00	10.00	0.00
9,500.0	58.20	171.41	9,354.0	85.4	702.9	-79.2	10.00	10.00	0.00
9,600.0	68.20	171.41	9,399.0	-2.7	716.2	9.1	10.00	10.00	0.00

Database: EDM 5000.14 Single User Db Company: Matador Production Company

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Survey Calculation Method:

Well Cimarron State Com 1143H

KB @ 3854.5usft KB @ 3854.5usft

Grid

nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,700.0	78.20	171.41	9.427.9	-97.2	730.5	103.7	10.00	10.00	0.00
9,800.0	88.20	171.41	9,439.7	-195.3	745.3	201.9	10.00	10.00	0.00
9,818.0	90.00	171.41	9,440.0	-213.1	748.0	219.7	10.00	10.00	0.00
	00 TFO 90.01		2,						
9,900.0	90.00	173.05	9,440.0	-294.3	759.1	301.1	2.00	0.00	2.00
9,900.0	90.00	173.05	9,440.0	-294.3	759.1	301.1	2.00	0.00	2.00
10,000.0	90.00	175.05	9,440.0	-393.8	769.4	400.6	2.00	0.00	2.00
10,100.0	90.00	177.05	9,440.0	-493.6	776.3	500.5	2.00	0.00	2.00
10,200.0	90.00	179.05	9,440.0	-593.5	779.7	600.4	2.00	0.00	2.00
10,221.8	90.00	179.49	9,440.0	-615.3	780.0	622.3	2.00	0.00	2.00
Start 3173.3	hold at 10221.8	MD							
10,300.0	90.00	179.49	9,440.0	-693.5	780.7	700.4	0.00	0.00	0.00
10,400.0	90.00	179.49	9,440.0	-793.5	781.6	800.4	0.00	0.00	0.00
10,500.0	90.00	179.49	9,440.0	-893.5	782.5	900.4	0.00	0.00	0.00
10,600.0	90.00	179.49	9,440.0	-993.5	783.4	1,000.4	0.00	0.00	0.00
10,700.0	90.00	179.49	9,440.0	-1,093.5	784.3	1,100.4	0.00	0.00	0.00
10,800.0	90.00	179.49	9,440.0	-1,193.5	785.2	1,200.4	0.00	0.00	0.00
10,900.0	90.00	179.49	9,440.0	-1,293.5	786.1	1,300.4	0.00	0.00	0.00
11,000.0	90.00	179.49	9,440.0	-1,393.5	787.0	1,400.4	0.00	0.00	0.00
11,100.0	90.00	179.49	9,440.0	-1,493.5	787.9	1,500.4	0.00	0.00	0.00
11,200.0	90.00	179.49	9,440.0	-1,593.5	788.8	1,600.4	0.00	0.00	0.00
11,300.0	90.00	179.49	9,440.0	-1,693.5	789.7	1,700.4	0.00	0.00	0.00
11,400.0	90.00	179.49	9,440.0	-1,793.4	790.5	1,800.4	0.00	0.00	0.00
11,500.0	90.00	179.49	9,440.0	-1,893.4	791.4	1,900.4	0.00	0.00	0.00
11,600.0	90.00	179.49	9,440.0	-1,993.4	792.3	2,000.4	0.00	0.00	0.00
11,700.0	90.00	179.49	9,440.0	-2,093.4	793.2	2,100.4	0.00	0.00	0.00
11,800.0	90.00	179.49	9,440.0	-2,193.4	794.1	2,200.4	0.00	0.00	0.00
11,900.0	90.00	179.49	9,440.0	-2,293.4	795.0	2,300.4	0.00	0.00	0.00
12,000.0	90.00	179.49	9,440.0	-2,393.4	795.9	2,400.4	0.00	0.00	0.00
12,100.0	90.00	179.49	9,440.0	-2,493.4	796.8	2,500.4	0.00	0.00	0.00
12,200.0	90.00	179.49	9,440.0	-2,593.4	797.7	2,600.4	0.00	0.00	0.00
12,300.0	90.00	179.49	9,440.0	-2,693.4	798.6	2,700.4	0.00	0.00	0.00
12,400.0	90.00	179.49	9,440.0	-2,793.4	799.5	2,800.4	0.00	0.00	0.00
12,500.0	90.00	179.49	9,440.0	-2,893.4	800.4	2,900.4	0.00	0.00	0.00
12,600.0	90.00	179.49	9,440.0	-2,993.4	801.3	3,000.4	0.00	0.00	0.00
12,700.0	90.00	179.49	9,440.0	-3,093.4	802.2	3,100.4	0.00	0.00	0.00
12,800.0	90.00	179.49	9,440.0	-3,193.4	803.1	3,200.4	0.00	0.00	0.00
12,900.0	90.00	179.49	9,440.0	-3,293.4	804.0	3,300.4	0.00	0.00	0.00
13,000.0	90.00	179.49	9,440.0	-3,393.4	804.9	3,400.4	0.00	0.00	0.00
13,100.0	90.00	179.49	9,440.0	-3,493.4	805.8	3,500.4	0.00	0.00	0.00
13,200.0	90.00	179.49	9,440.0	-3,593.4	806.7	3,600.4	0.00	0.00	0.00
13,300.0	90.00	179.49	9,440.0	-3,693.4	807.6	3,700.4	0.00	0.00	0.00
13,395.2	90.00	179.49	9,440.0	-3,788.6	808.4	3,795.6	0.00	0.00	0.00
Start DLS 5.	79 TFO 90.00 - D	P1 - Cimarron S	State Com 1143	Н					
13,400.0	90.00	179.77	9,440.0	-3,793.4	808.4	3,800.4	5.79	0.00	5.79
13,500.0	90.00	185.55	9,440.0	-3,893.2	803.8	3,900.2	5.79	0.00	5.79
13,600.0	90.00	191.34	9,440.0	-3,992.1	789.1	3,999.0	5.79	0.00	5.79
13,700.0	90.00	197.13	9,440.0	-4,089.0	764.5	4,095.6	5.79	0.00	5.79
				,					
13,800.0	90.00	202.91	9,440.0	-4,182.9	730.3	4,189.2	5.79	0.00	5.79
13,900.0	90.00	208.70	9,440.0	-4,272.9	686.8	4,278.8	5.79	0.00	5.79
14,000.0	90.00	214.49	9,440.0	-4,358.0	634.4	4,363.5	5.79	0.00	5.79
14,100.0	90.00	220.27	9,440.0	-4,437.5	573.8	4,442.4	5.79	0.00	5.79
14,200.0	90.00	226.06	9,440.0	-4,510.4	505.4	4,514.7	5.79	0.00	5.79
14,300.0	90.00	231.85	9,440.0	-4,576.0	430.0	4,579.7	5.79	0.00	5.79

Database: EDM 5000.14 Single User Db Company: Matador Production Company

Project: Ranger/Arrowhead Site: Cimarron

Well: Cimarron State Com 1143H
Wellbore: Wellbore #1
Design: State Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Cimarron State Com 1143H

KB @ 3854.5usft KB @ 3854.5usft

Grid

Design:	State 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)
14,357.6	90.00	235.18	9,440.0	-4,610.3	383.7	4,613.5	5.79	0.00	5.79
	on State Com								
14,400.0 14,500.0 14,600.0	90.00 90.00 90.00	237.63 243.42 249.20	9,440.0 9,440.0 9,440.0	-4,633.7 -4,682.9 -4,723.1	348.4 261.4 169.8	4,636.6 4,685.0 4,724.4	5.79 5.79 5.79	0.00 0.00 0.00	5.79 5.79 5.79
14,700.0 14,800.0 14,900.0 14,940.7	90.00 90.00 90.00 90.00	254.99 260.78 266.56 268.92	9,440.0 9,440.0 9,440.0 9,440.0	-4,753.8 -4,774.8 -4,785.8 -4,787.4	74.7 -23.0 -122.4 -163.1	4,754.3 4,774.4 4,784.5 4,785.7	5.79 5.79 5.79 5.79	0.00 0.00 0.00 0.00	5.79 5.79 5.79 5.79
Start DLS 5.79									
14,949.3	90.00	269.42	9,440.0	-4,787.5	-171.6	4,785.8	5.79	0.00	5.79
Apex - Cimarr	on State Com								
15,000.0 15,100.0 15,200.0 15,300.0 15,400.0	90.00 90.00 90.00 90.00 90.00	272.36 278.15 283.94 289.74 295.53	9,440.0 9,440.0 9,440.0 9,440.0 9,440.0	-4,786.7 -4,777.6 -4,758.4 -4,729.5 -4,691.0	-222.3 -321.9 -420.0 -515.6 -607.9	4,784.6 4,774.5 4,754.5 4,724.7 4,685.4	5.79 5.79 5.79 5.79 5.79	0.00 0.00 0.00 0.00 0.00	5.79 5.79 5.79 5.79 5.79
15,500.0	90.00 90.00	301.32 303.77	9,440.0	-4,643.4	-695.8	4,637.0	5.79 5.79	0.00 0.00	5.79 5.79
15,542.2	on State Com		9,440.0	-4,620.7	-731.3	4,614.1	5.79	0.00	5.79
15,600.0	90.00	307.12	9,440.0	-4,587.2	-778.5	4,580.1	5.79	0.00	5.79
15,700.0	90.00	312.91	9,440.0	-4,522.9	-855.0	4,515.1	5.79	0.00	5.79
15,800.0	90.00	318.70	9,440.0	-4,451.3	-924.7	4,442.9	5.79	0.00	5.79
15,900.0 16,000.0 16,100.0	90.00 90.00 90.00	324.50 330.29 336.08	9,440.0 9,440.0 9,440.0	-4,372.9 -4,288.7 -4,199.5	-986.8 -1,040.6 -1,085.7	4,364.0 4,279.3 4,189.7	5.79 5.79 5.79	0.00 0.00 0.00	5.79 5.79 5.79
16,200.0 16,300.0	90.00 90.00	341.88 347.67	9,440.0 9,440.0	-4,106.2 -4,009.8	-1,121.6 -1,147.8	4,096.1 3,999.4	5.79 5.79	0.00 0.00	5.79 5.79
16,400.0 16,500.0 16,503.8	90.00 90.00 90.00	353.47 359.26 359.48	9,440.0 9,440.0 9,440.0 arron State Com	-3,911.2 -3,811.4 -3,807.6	-1,164.2 -1,170.6 -1,170.6	3,900.6 3,800.8 3,797.0	5.79 5.79 5.79	0.00 0.00 0.00	5.79 5.79 5.79
16,600.0	90.00	359.48	9,440.0	-3,711.4	-1,171.5	3,700.8	0.00	0.00	0.00
16,700.0	90.00	359.48	9,440.0	-3,611.4	-1,172.4	3,600.8	0.00	0.00	0.00
16,800.0 16,900.0 17,000.0 17,100.0 17,200.0	90.00 90.00 90.00 90.00 90.00	359.48 359.48 359.48 359.48 359.48	9,440.0 9,440.0 9,440.0 9,440.0 9,440.0	-3,511.4 -3,411.4 -3,311.4 -3,211.4 -3,111.4	-1,173.3 -1,174.2 -1,175.1 -1,176.0 -1,176.9	3,500.8 3,400.8 3,300.8 3,200.8 3,100.8	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
17,300.0 17,400.0	90.00	359.48 359.48	9,440.0 9,440.0	-3,011.4 -2,911.4	-1,177.8 -1,178.7	3,000.8 2,900.8	0.00	0.00 0.00	0.00
17,500.0 17,600.0 17,700.0	90.00 90.00 90.00	359.48 359.48 359.48	9,440.0 9,440.0 9,440.0	-2,811.4 -2,711.4 -2,611.4	-1,179.6 -1,180.5 -1,181.4	2,800.8 2,700.8 2,600.8	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
17,800.0 17,900.0 18,000.0 18,100.0	90.00 90.00 90.00 90.00	359.48 359.48 359.48 359.48	9,440.0 9,440.0 9,440.0 9,440.0	-2,511.5 -2,411.5 -2,311.5 -2,211.5	-1,182.3 -1,183.2 -1,184.1 -1,185.0	2,500.8 2,400.8 2,300.8 2,200.8	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
18,200.0 18,300.0	90.00 90.00	359.48 359.48	9,440.0 9,440.0	-2,111.5 -2,011.5	-1,185.9 -1,186.8	2,100.8 2,000.8	0.00	0.00 0.00	0.00
18,300.0 18,400.0 18,500.0 18,600.0	90.00 90.00	359.48 359.48	9,440.0 9,440.0	-1,911.5 -1,811.5	-1,187.8 -1,188.7	1,900.8 1,800.8	0.00 0.00	0.00 0.00	0.00 0.00
18,700.0	90.00 90.00	359.48 359.48	9,440.0 9,440.0	-1,711.5 -1,611.5	-1,189.6 -1,190.5	1,700.8 1,600.8	0.00 0.00	0.00 0.00	0.00 0.00

Database: EDM 5000.14 Single User Db Company: Matador Production Company

Project: Ranger/Arrowhead
Site: Cimarron

Well: Cimarron State Com 1143H

Wellbore: Wellbore #1
Design: State Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Cimarron State Com 1143H

KB @ 3854.5usft KB @ 3854.5usft

Grid

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
18,800.0	90.00	359.48	9,440.0	-1,511.5	-1,191.4	1,500.8	0.00	0.00	0.00
18,900.0	90.00	359.48	9,440.0	-1,411.5	-1,192.3	1,400.8	0.00	0.00	0.00
19,000.0	90.00	359.48	9,440.0	-1,311.5	-1,193.2	1,300.8	0.00	0.00	0.00
19,100.0	90.00	359.48	9,440.0	-1,211.5	-1,194.1	1,200.8	0.00	0.00	0.00
19,200.0	90.00	359.48	9,440.0	-1,111.5	-1,195.0	1,100.8	0.00	0.00	0.00
19,300.0	90.00	359.48	9,440.0	-1,011.5	-1,195.9	1,000.8	0.00	0.00	0.00
19,400.0	90.00	359.48	9,440.0	-911.5	-1,196.8	900.8	0.00	0.00	0.00
19,500.0	90.00	359.48	9,440.0	-811.5	-1,197.7	8.008	0.00	0.00	0.00
19,600.0	90.00	359.48	9,440.0	-711.5	-1,198.6	700.8	0.00	0.00	0.00
19,700.0	90.00	359.48	9,440.0	-611.5	-1,199.5	600.8	0.00	0.00	0.00
19,800.0	90.00	359.48	9,440.0	-511.5	-1,200.4	500.8	0.00	0.00	0.00
19,900.0	90.00	359.48	9,440.0	-411.5	-1,201.3	400.8	0.00	0.00	0.00
20,000.0	90.00	359.48	9,440.0	-311.5	-1,202.2	300.8	0.00	0.00	0.00
20,100.0	90.00	359.48	9,440.0	-211.5	-1,203.1	200.8	0.00	0.00	0.00
20,200.0	90.00	359.48	9,440.0	-111.5	-1,204.0	100.8	0.00	0.00	0.00
20,300.0	90.00	359.48	9,440.0	-11.6	-1,204.9	0.8	0.00	0.00	0.00
20,400.0	90.00	359.48	9,440.0	88.4	-1,205.8	-99.2	0.00	0.00	0.00
20,500.0	90.00	359.48	9,440.0	188.4	-1,206.7	-199.2	0.00	0.00	0.00
20,594.0	90.00	359.48	9,440.0	282.4	-1,207.6	-293.2	0.00	0.00	0.00
BHL - Cimar	ron State Com 1	143H							
20,594.1	90.00	359.48	9,440.0	282.6	-1,207.6	-293.3	0.00	0.00	0.00

Database: EDM 5000.14 Single User Db Company: Matador Production Company

Project: Ranger/Arrowhead Site: Cimarron

Well: Cimarron State Com 1143H

Wellbore: Wellbore #1
Design: State Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

North Reference: Survey Calculation Method: Well Cimarron State Com 1143H

KB @ 3854.5usft KB @ 3854.5usft

Grid

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP - Cimarron State C - plan hits target ce - Point		0.01	8,867.0	353.4	662.4	607,337.00	738,707.00	32° 40' 2.180 N	103° 33' 27.495 W
PTP - Cimarron State C - plan hits target ce - Point		0.00	9,103.4	303.0	670.0	607,286.56	738,714.62	32° 40' 1.680 N	103° 33' 27.410 W
NPZ1 - Cimarron State - plan misses targe - Point		0.00 usft at 14357	9,440.0 .6usft MD (9	-4,611.0 1440.0 TVD, -4	384.2 610.3 N, 383.	602,372.56 7 E)	738,428.83	32° 39' 13.078 N	103° 33' 31.173 W
NPZ2 - Cimarron State - plan misses targe - Point		0.00 usft at 15542	9,440.0 .2usft MD (9	-4,621.0 1440.0 TVD, -4	-731.5 620.7 N, -731	602,362.56 .3 E)	737,313.08	32° 39′ 13.060 N	103° 33' 44.223 W
DP2 - Cimarron State C - plan hits target ce - Point		0.00	9,440.0	-3,807.6	-1,170.6	603,176.00	736,874.00	32° 39' 21.140 N	103° 33' 49.289 W
BHL - Cimarron State C - plan hits target ce - Point		0.00	9,440.0	282.4	-1,207.6	607,266.00	736,837.00	32° 40' 1.612 N	103° 33' 49.375 W
Apex - Cimarron State ( - plan hits target ce - Point		0.00	9,440.0	-4,787.6	-171.6	602,196.00	737,873.00	32° 39' 11.371 N	103° 33' 37.688 W
DP1 - Cimarron State C - plan hits target ce - Point		0.00	9,440.0	-3,788.6	808.4	603,195.00	738,853.00	32° 39' 21.185 N	103° 33' 26.141 W

Plan Annotations					
Meas Dep (us	oth	Vertical Depth (usft)	Local Coord +N/-S (usft)	dinates +E/-W (usft)	Comment
1	,500.0	1,500.0	0.0	0.0	Start Build 2.00
1,	,900.0	1,898.7	13.1	24.6	Start 4927.3 hold at 1900.0 MD
6	,827.3	6,778.1	335.9	629.6	Start Drop -1.50
7.	,360.6	7,309.7	353.4	662.4	Start 1557.3 hold at 7360.6 MD
8.	,918.0	8,867.0	353.4	662.4	Start Build 10.00
9.	,818.0	9,440.0	-213.1	748.0	Start DLS 2.00 TFO 90.01
10.	,221.8	9,440.0	-615.3	780.0	Start 3173.3 hold at 10221.8 MD
13	,395.2	9,440.0	-3,788.6	808.4	Start DLS 5.79 TFO 90.00
14	,940.7	9,440.0	-4,787.4	-163.1	Start DLS 5.79 TFO 90.00
16	,503.8	9,440.0	-3,807.6	-1,170.6	Start 4090.3 hold at 16503.8 MD
20	,594.1	9,440.0	282.6	-1,207.6	TD at 20594.1

### Addendum to Natural Gas Management Plan for Matador's

#### Cimarron State Com 1143H and 1243H

#### 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
Cimarron State Com 1143H	900	1300	1500
Cimarron State Com 1243H	900	1300	1500

#### 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.

#### VIII. 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

# 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

I. Operator: <u>Matador Pro</u>	duction C	Company	OGRID: <u>22</u>	8937		Date:_	1/21/	2025
II. Type: ⊠Original □ Am	endment	due to □ 19.15.27	.9.D(6)(a) NMAC	C □ 19.15.27.9.D(6	5)(b) N	МАС □ С	ther.	
If Other, please describe:								
III. Well(s): Provide the fo recompleted from a single v					wells p	roposed to	be dril	led or proposed to be
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		ticipated s MCF/D		Anticipated Produced Water BBL/D
Simarron State Com 1143H	TBD	UL-A 16-19S <b>-</b> 34E	395' FSL 1105' FEL	900	1300		1500	
Cimarron State Com 1243H	TBD	UL-A 16-19S-34E	395' FSL 1075' FEL	900	1300		1500	
IV. Central Delivery Point V. Anticipated Schedule: I proposed to be recompleted	Provide th	e following inform			vell or s			7.9(D)(1) NMAC] sed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial I Back I		First Production Date
Cimarron State Com 1143H	TBD	5/20/2026	6/20/2026	8/1/2026		8/26/2026		8/26/2026
Cimarron State Com 1243H	TBD	6/20/2026	7/20/2026	8/1/2026		8/26/2026		8/26/2026
VI. Separation Equipment		_						

- 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.
- VIII. Best Management Practices: 
  ☐ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

#### 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

□Operator 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. ☐ 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: Mark Gonzales
Title: Facilities Engineer
E-mail Address: mark.gonzales@matadorresources.com
Date: 1/21/2024
Phone: (915) 240-3468
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

