District I
1625 N. French Dr., Hobbs, NM 88240
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District III
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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101
August 1, 2011

Permit 277458

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

1. Operator Name and Address	2. OGRID Number
MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	228937
	3. API Number 30-015-46667

4. Property Code	5. Property Name	6. Well No.
326434	RAY STATE COM	123H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
O	36	23S	28E		188	S	2589	E	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
B	25	23S	28E	B	60	N	1966	E	Eddy

9. Pool Information

CULEBRA BLUFF;BONE SPRING, SOUTH	15011

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	2963
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	18900	Bone Spring		4/21/2020
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	225	300	0
Int1	12.25	9.625	40	2750	755	0
Prod	8.75	5.5	20	18800	2750	2550

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

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

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.

Signature:

OIL CONSERVATION DIVISION

Printed Name:	Electronically filed by Ava Monroe	Approved By:	Raymond Podany	
Title:	Sr. Regulatory Analyst	Title:	Geologist	
Email Address:	amonroe@matadorresources.com	Approved Date:	2/3/2020	Expiration Date: 2/3/2022
Date:	1/21/2020 Phone: 972-371-5218	Conditions of Approval Attached		

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

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

☐ **AMENDED REPORT**

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1]API Number	[2]Pool Code	[3]Pool Name
	15011	Culebra Bluff; Bone Spring, South

[4]Property Code	[5]Property Name	[6]Well Number
	RAY STATE COM	123H

[7]OGRID No.	[8]Operator Name	[9]Elevation
228937	MATADOR PRODUCTION COMPANY	2963'

[10]Surface Location

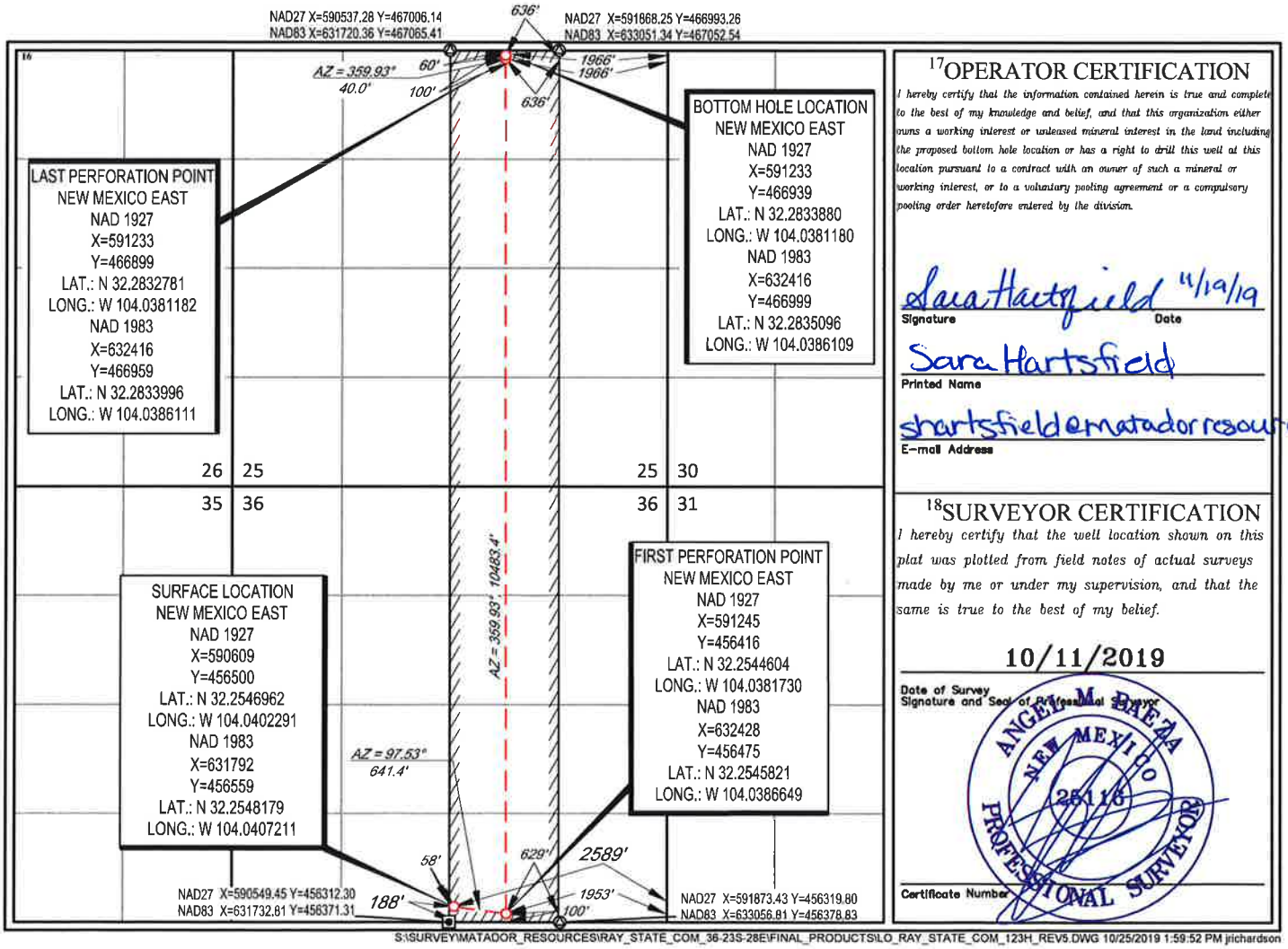
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	36	23-S	28-E	-	188'	SOUTH	2589'	EAST	EDDY

[11]Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	25	23-S	28-E	-	60'	NORTH	1966'	EAST	EDDY

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
320			

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.



[17]OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Sara Hartsfield 11/19/19
Signature Date

Sara Hartsfield
Printed Name

shartsfield@matadorresources.com
E-mail Address

[18]SURVEYOR CERTIFICATION

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

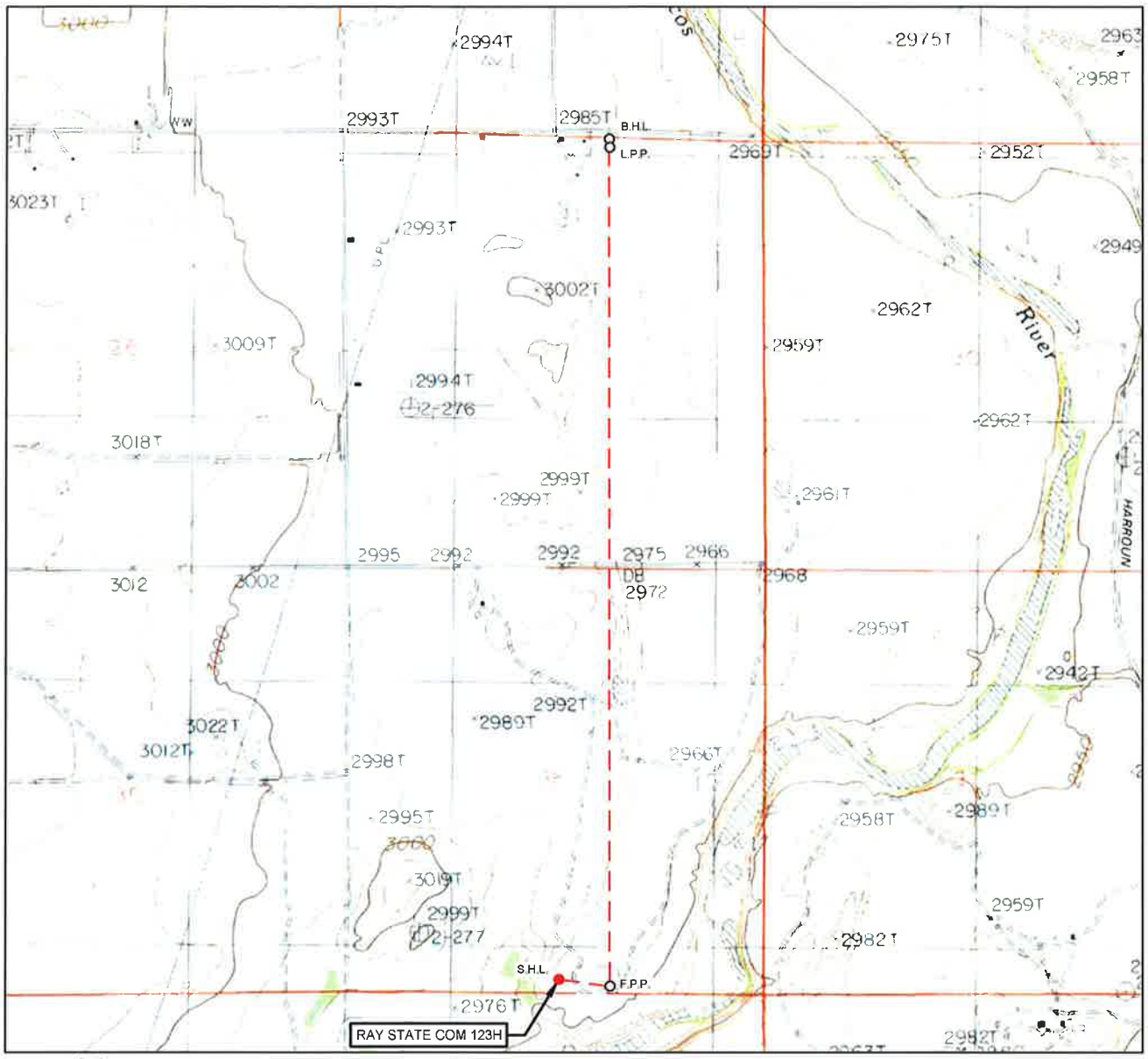
10/11/2019
Date of Survey
Signature and Seal of Professional Surveyor

ANGEL M. BAEZA NEW MEXICO 25116 PROFESSIONAL SURVEYOR

Certificate Number

S:\SURVEY\MATADOR_RESOURCES\RAY_STATE_COM_36-23S-28E\FINAL_PRODUCTS\LO_RAY_STATE_COM_123H_REV5.DWG 10/25/2019 1:59:52 PM jrichardson

LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: RAY STATE COM 123H

SECTION 36 TWP 23-S RGE 28-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM ELEVATION 2963'
DESCRIPTION 188' FSL & 2589' FEL

LATITUDE N 32.2548179 LONGITUDE W 104.0407211

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

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

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

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
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
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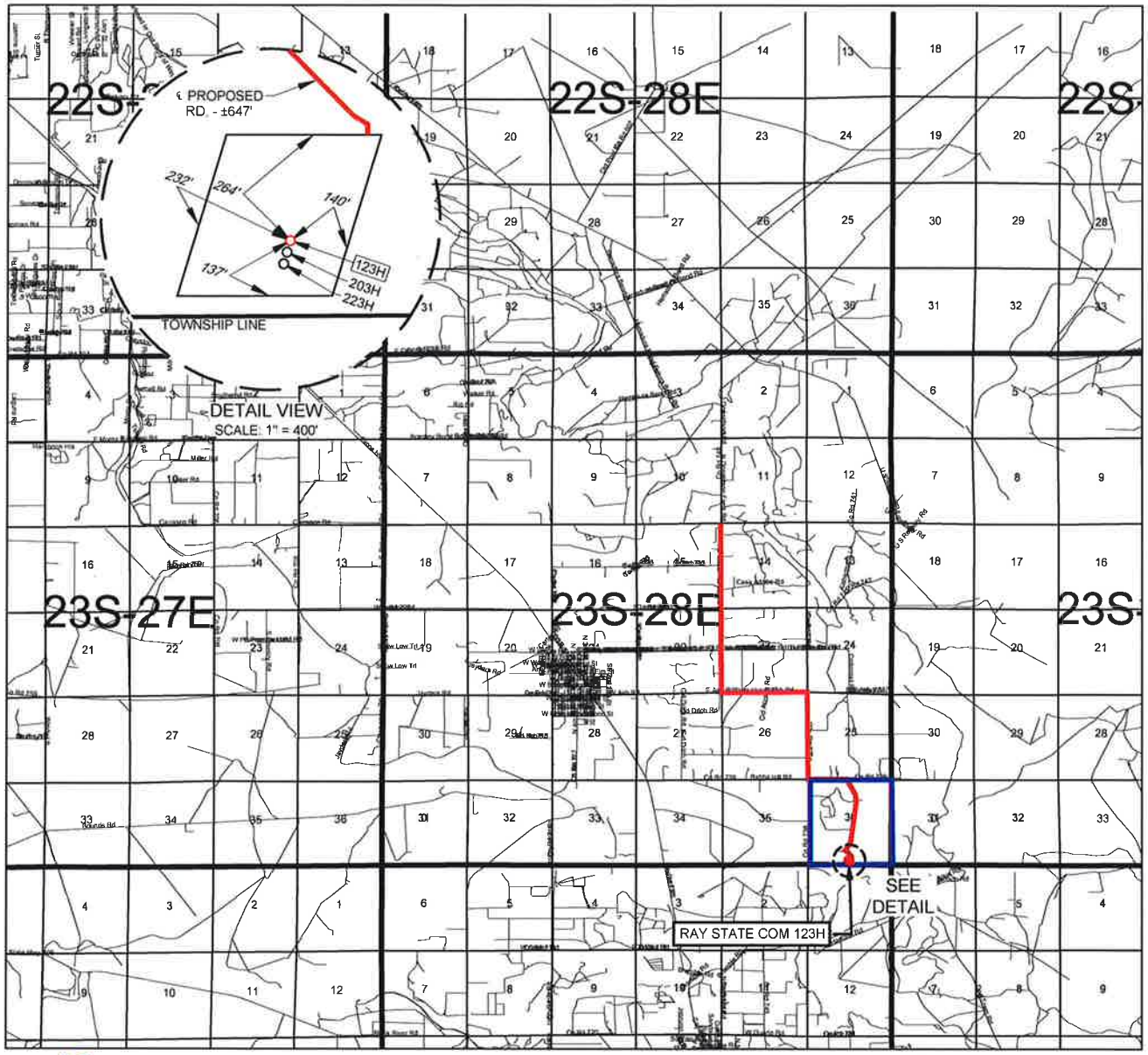
VICINITY MAP



LEASE NAME & WELL NO.: RAY STATE COM 123H

SECTION 36 TWP 23-S RGE 28-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 188' FSL & 2589' FEL

SCALE: 1" = 10000'
0' 5000' 10000'

DISTANCE & DIRECTION

FROM INT. OF NM-31, & STATE HWY 387, GO SOUTH ON STATE HWY 387, ±2.0 MILES, THENCE CONTINUING ON STATE HWY 387 EAST (LEFT) ±1.0 MILES, THENCE SOUTH (RIGHT) ON GIOVENGO RD. ±1.0 MILES, THENCE EAST (LEFT) ON RABBIT HILL RD. ±0.5 MILES, THENCE SOUTHEAST (RIGHT) ON LEASE RD. ±0.9 MILES, THENCE SOUTHEAST (LEFT) ON PROPOSED RD. ±647 FEET TO A POINT ±327 FEET NORTHEAST OF THE LOCATION.

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

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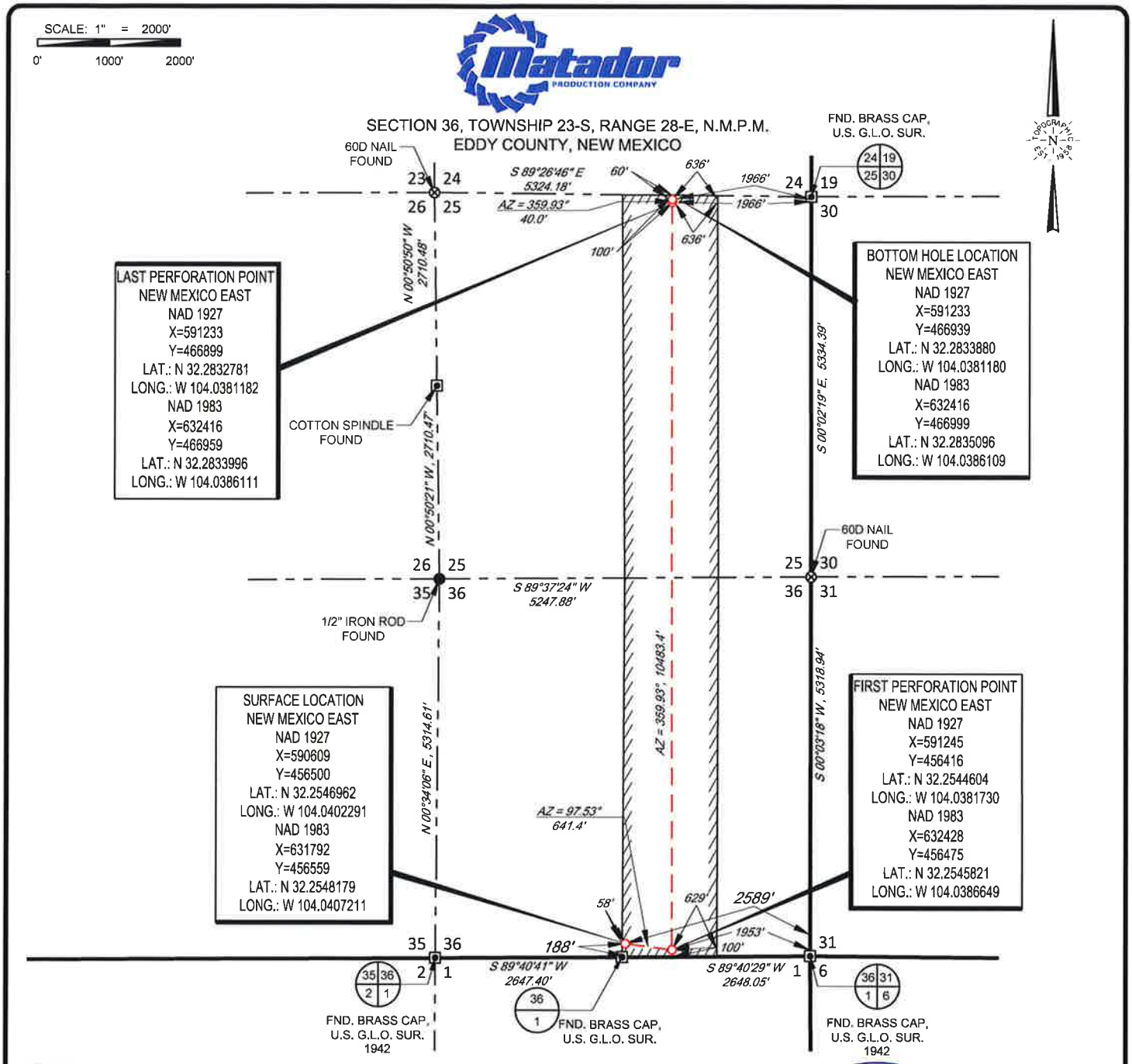

LEASE NAME & WELL NO.: RAY STATE COM 123H

SECTION 36 TWP 23-S RGE 28-E SURVEY N.M.P.M.

COUNTY EDDY STATE NM

DESCRIPTION 188' FSL & 2589' FEL

DISTANCE & DIRECTION

FROM INT. OF NM-31. & STATE HWY 387. GO SOUTH ON STATE HWY 387. ±2.0 MILES.THENCE CONTINUING ON STATE HWY 387 EAST (LEFT) ±1.0 MILES. THENCE SOUTH (RIGHT) ON GIOVENGO RD. ±1.0 MILES, THENCE EAST (LEFT) ON RABBIT HILL RD. ±0.5 MILES, THENCE SOUTHEAST (RIGHT) ON LEASE RD. ±0.9 MILES, THENCE SOUTHEAST (LEFT) ON PROPOSED RD. ±647 FEET TO A POINT ±327 FEET NORTHEAST OF THE LOCATION.

ANGEL M. BAEZA NEW MEXICO 25116 PROFESSIONAL SURVEYOR

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

OCTOBER 24, 2019

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

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

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

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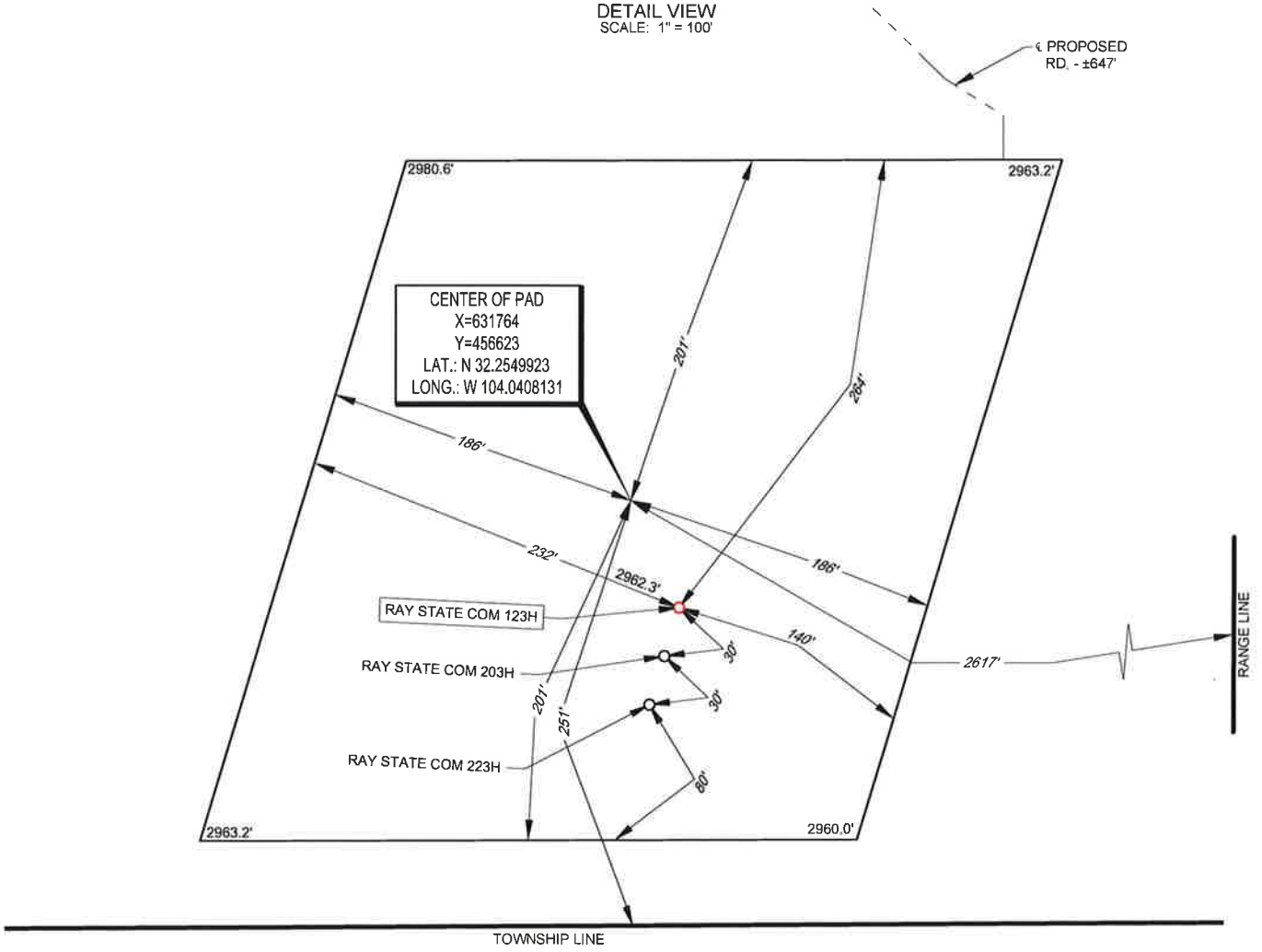
Matador PRODUCTION COMPANY

LEGEND

TOWNSHIP/RANGE LINE
PROPOSED ROAD

SECTION 36, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'



ANGEL M. BAEZA NEW MEXICO 25116 PROFESSIONAL SURVEYOR

LEASE NAME & WELL NO.: RAY STATE COM 123H

123H LATITUDE N 32.2548179 123H LONGITUDE W 104.0407211

CENTER OF PAD IS 251' FSL & 2617' FEL

SCALE: 1" = 100'
0' 50' 100'

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

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. 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"

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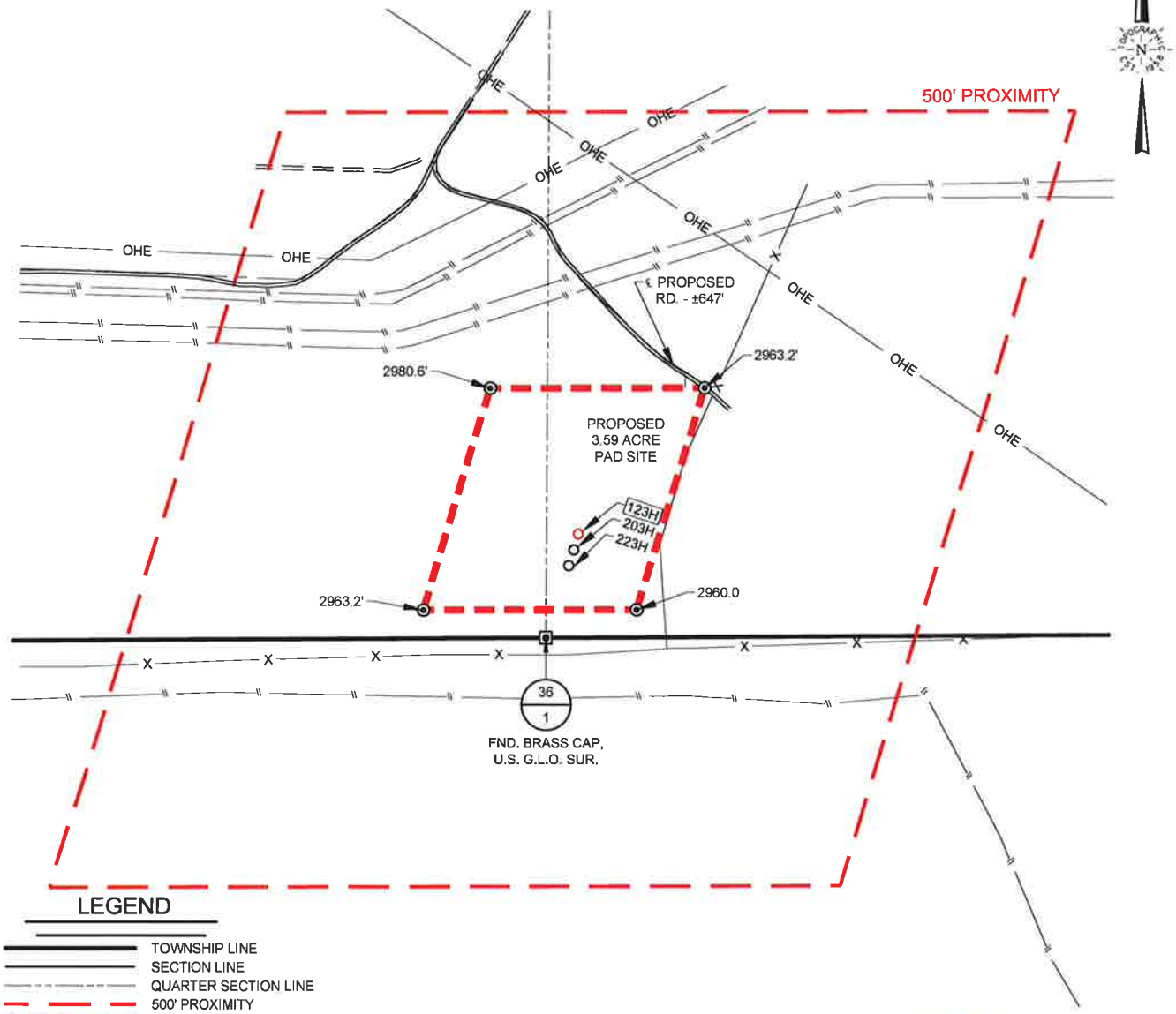
SCALE: 1" = 300'
0' 150' 300'

SECTION 36, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



LEGEND

- TOWNSHIP LINE
- SECTION LINE
- QUARTER SECTION LINE
- 500' PROXIMITY
- PROPOSED SITE
- FENCE LINE
- EXISTING PIPELINES
- OVERHEAD ELECTRIC
- ROAD WAY
- PROPOSED ROAD
- IRON ROD SET
- MONUMENT

Matador PRODUCTION COMPANY

TOPOGRAPHIC
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ANGEL M. BAEZA NEW MEXICO 25116 PROFESSIONAL SURVEYOR

Angel M. Baeza, P.S. No. 25116
OCTOBER 24, 2019

RAY STATE COM 123H PROXIMITY MAP	REVISION:	
	AMD	01/17/19
	JDR	02/04/19
DATE: 01/11/19	AMD	08/16/19
FILE: LO_RAY_STATE_COM_123H_REV5	GJU	09/06/19
DRAWN BY: EAH	JLS	10/24/19
SHEET : 6 OF 6		

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR PRODUCTION COMPANY. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.
4. ADJOINER INFORMATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.

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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

GAS CAPTURE PLAN

Date: 2/3/2020

☒ Original
☐ Amended - Reason for Amendment:

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

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

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

Well(s)/Production Facility – Name of facility

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

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
RAY STATE COM #123H	30-015-46667	O-36-23S-28E	0188S 2589E	3000	Flared	

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to LONGWOOD RB PIPELINE, LLC and will be connected to LONGWOOD RB PIPELINE, LLC High Pressure gathering system located in Eddy County, New Mexico. It will require 5280' of pipeline to connect the facility to High Pressure gathering system. MATADOR PRODUCTION COMPANY provides (periodically) to LONGWOOD RB PIPELINE, LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, MATADOR PRODUCTION COMPANY and LONGWOOD RB PIPELINE, LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at LONGWOOD RB PIPELINE, LLC Processing Plant located in Sec. 31, Twn. 23S, Rng. 28E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

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

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

Alternatives to Reduce Flaring

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

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

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

Form APD Comments

Permit 277458

PERMIT COMMENTS

Operator Name and Address:	API Number:
MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	30-015-46667
	Well: RAY STATE COM #123H

Created By	Comment	Comment Date

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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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 277458

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	30-015-46667
	Well: RAY STATE COM #123H

OCD Reviewer	Condition
rpodany	Will require a directional survey with the C-104
rpodany	Cement is required to circulate on both surface and intermediate1 strings of casing

Matador Production Company

Rustler Breaks
Ray State
Ray State Com #123H

Wellbore #1

Plan: State Plan #1

Standard Planning Report

29 October, 2019

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Ray State Com #123H
Company:	Matador Production Company	**TVD Reference:**	KB @ 2989.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 2989.5usft
Site:	Ray State	**North Reference:**	Grid
Well:	Ray State Com #123H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Project Rustler Breaks

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		Using geodetic scale factor

Site Ray State

Site Position:		**Northing:**	455,431.16 usft	**Latitude:**	32° 15' 6.263 N
From:	Lat/Long	**Easting:**	592,908.03 usft	**Longitude:**	104° 1' 58.085 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.16 °

Well Ray State Com #123H

Well Position	**+N/-S**	1,069.2 usft	**Northing:**	456,500.28 usft	**Latitude:**	32° 15' 16.906 N
	+E/-W	-2,299.3 usft	**Easting:**	590,608.87 usft	**Longitude:**	104° 2' 24.825 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	2,961.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.96	60.19	48,762.00761573

Design State Plan #1

Audit Notes:

Version:	1	**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.93

Plan Survey Tool Program **Date** 10/28/2019

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	18,794.7	State Plan #1 (Wellbore #1)	MWD	
				OWSG MWD - Standard	

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	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,000.0	10.00	101.92	3,994.9	-18.0	85.2	1.00	1.00	0.00	101.92	
6,908.9	10.00	101.92	6,859.6	-122.3	579.4	0.00	0.00	0.00	0.00	
7,575.5	0.00	0.00	7,522.9	-134.3	636.2	1.50	-1.50	0.00	180.00	
7,894.6	0.00	0.00	7,842.0	-134.3	636.2	0.00	0.00	0.00	0.00	VP - Ray State Con
8,794.6	90.00	0.01	8,415.0	438.7	636.2	10.00	10.00	0.00	0.01	
8,798.4	90.00	359.93	8,415.0	442.5	636.2	2.00	-0.01	-2.00	-90.18	
18,794.7	90.00	359.93	8,415.0	10,438.7	623.9	0.00	0.00	0.00	0.00	BHL - Ray State Cc

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Ray State Com #123H
Company:	Matador Production Company	**TVD Reference:**	KB @ 2989.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 2989.5usft
Site:	Ray State	**North Reference:**	Grid
Well:	Ray State Com #123H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
21.0	0.00	0.00	21.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
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	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
425.0	0.00	0.00	425.0	0.0	0.0	0.0	0.00	0.00	0.00
Top Salt									
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
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,675.0	0.00	0.00	2,675.0	0.0	0.0	0.0	0.00	0.00	0.00
Lamar (Base Salt)									
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 1.00									
3,100.0	1.00	101.92	3,100.0	-0.2	0.9	-0.2	1.00	1.00	0.00
3,200.0	2.00	101.92	3,200.0	-0.7	3.4	-0.7	1.00	1.00	0.00
3,300.0	3.00	101.92	3,299.9	-1.6	7.7	-1.6	1.00	1.00	0.00
3,400.0	4.00	101.92	3,399.7	-2.9	13.7	-2.9	1.00	1.00	0.00
3,500.0	5.00	101.92	3,499.4	-4.5	21.3	-4.5	1.00	1.00	0.00
3,600.0	6.00	101.92	3,598.9	-6.5	30.7	-6.5	1.00	1.00	0.00
3,700.0	7.00	101.92	3,698.3	-8.8	41.8	-8.9	1.00	1.00	0.00
3,800.0	8.00	101.92	3,797.4	-11.5	54.6	-11.6	1.00	1.00	0.00
Start 279.5 hold at 3800.0 MD									
3,900.0	9.00	101.92	3,896.3	-14.6	69.0	-14.7	1.00	1.00	0.00
4,000.0	10.00	101.92	3,994.9	-18.0	85.2	-18.1	1.00	1.00	0.00
4,079.5	10.00	101.92	4,073.3	-20.8	98.7	-21.0	0.00	0.00	0.00
Start Drop -1.50									
4,100.0	10.00	101.92	4,093.4	-21.6	102.2	-21.7	0.00	0.00	0.00
4,200.0	10.00	101.92	4,191.9	-25.2	119.1	-25.3	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Ray State Com #123H
Company:	Matador Production Company	**TVD Reference:**	KB @ 2989.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 2989.5usft
Site:	Ray State	**North Reference:**	Grid
Well:	Ray State Com #123H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
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)
4,300.0	10.00	101.92	4,290.4	-28.7	136.1	-28.9	0.00	0.00	0.00
4,400.0	10.00	101.92	4,388.9	-32.3	153.1	-32.5	0.00	0.00	0.00
4,500.0	10.00	101.92	4,487.3	-35.9	170.1	-36.1	0.00	0.00	0.00
4,600.0	10.00	101.92	4,585.8	-39.5	187.1	-39.7	0.00	0.00	0.00
4,612.9	10.00	101.92	4,598.5	-40.0	189.3	-40.2	0.00	0.00	0.00
Start 3236.2 hold at 4612.9 MD									
4,700.0	10.00	101.92	4,684.3	-43.1	204.1	-43.3	0.00	0.00	0.00
4,800.0	10.00	101.92	4,782.8	-46.7	221.1	-46.9	0.00	0.00	0.00
4,900.0	10.00	101.92	4,881.3	-50.3	238.1	-50.5	0.00	0.00	0.00
5,000.0	10.00	101.92	4,979.7	-53.8	255.1	-54.2	0.00	0.00	0.00
5,100.0	10.00	101.92	5,078.2	-57.4	272.1	-57.8	0.00	0.00	0.00
5,200.0	10.00	101.92	5,176.7	-61.0	289.1	-61.4	0.00	0.00	0.00
5,300.0	10.00	101.92	5,275.2	-64.6	306.0	-65.0	0.00	0.00	0.00
5,400.0	10.00	101.92	5,373.7	-68.2	323.0	-68.6	0.00	0.00	0.00
5,500.0	10.00	101.92	5,472.1	-71.8	340.0	-72.2	0.00	0.00	0.00
5,600.0	10.00	101.92	5,570.6	-75.4	357.0	-75.8	0.00	0.00	0.00
5,700.0	10.00	101.92	5,669.1	-78.9	374.0	-79.4	0.00	0.00	0.00
5,800.0	10.00	101.92	5,767.6	-82.5	391.0	-83.0	0.00	0.00	0.00
5,900.0	10.00	101.92	5,866.1	-86.1	408.0	-86.6	0.00	0.00	0.00
6,000.0	10.00	101.92	5,964.5	-89.7	425.0	-90.2	0.00	0.00	0.00
6,100.0	10.00	101.92	6,063.0	-93.3	442.0	-93.8	0.00	0.00	0.00
6,200.0	10.00	101.92	6,161.5	-96.9	459.0	-97.4	0.00	0.00	0.00
6,300.0	10.00	101.92	6,260.0	-100.5	475.9	-101.0	0.00	0.00	0.00
6,400.0	10.00	101.92	6,358.5	-104.1	492.9	-104.7	0.00	0.00	0.00
6,434.3	10.00	101.92	6,392.2	-105.3	498.8	-105.9	0.00	0.00	0.00
BSGL									
6,500.0	10.00	101.92	6,457.0	-107.6	509.9	-108.3	0.00	0.00	0.00
6,600.0	10.00	101.92	6,555.4	-111.2	526.9	-111.9	0.00	0.00	0.00
6,700.0	10.00	101.92	6,653.9	-114.8	543.9	-115.5	0.00	0.00	0.00
6,800.0	10.00	101.92	6,752.4	-118.4	560.9	-119.1	0.00	0.00	0.00
6,900.0	10.00	101.92	6,850.9	-122.0	577.9	-122.7	0.00	0.00	0.00
6,908.9	10.00	101.92	6,859.6	-122.3	579.4	-123.0	0.00	0.00	0.00
7,000.0	8.63	101.92	6,949.5	-125.3	593.8	-126.1	1.50	-1.50	0.00
7,100.0	7.13	101.92	7,048.6	-128.2	607.3	-128.9	1.50	-1.50	0.00
7,200.0	5.63	101.92	7,148.0	-130.5	618.1	-131.2	1.50	-1.50	0.00
7,300.0	4.13	101.92	7,247.6	-132.2	626.5	-133.0	1.50	-1.50	0.00
7,400.0	2.63	101.92	7,347.4	-133.5	632.2	-134.2	1.50	-1.50	0.00
7,446.0	1.94	101.92	7,393.4	-133.8	634.0	-134.6	1.50	-1.50	0.00
FBSG									
7,500.0	1.13	101.92	7,447.4	-134.1	635.4	-134.9	1.50	-1.50	0.00
7,575.5	0.00	0.00	7,522.9	-134.3	636.2	-135.1	1.50	-1.50	0.00
7,600.0	0.00	0.00	7,547.4	-134.3	636.2	-135.1	0.00	0.00	0.00
7,663.3	0.00	0.00	7,610.7	-134.3	636.2	-135.1	0.00	0.00	0.00
SBSC									
7,700.0	0.00	0.00	7,647.4	-134.3	636.2	-135.1	0.00	0.00	0.00
7,800.0	0.00	0.00	7,747.4	-134.3	636.2	-135.1	0.00	0.00	0.00
7,849.0	0.00	0.00	7,796.4	-134.3	636.2	-135.1	0.00	0.00	0.00
Start Build 10.00									
7,894.6	0.00	0.00	7,842.0	-134.3	636.2	-135.1	0.00	0.00	0.00
VP - Ray State Com #123H									
7,900.0	0.54	0.01	7,847.4	-134.3	636.2	-135.0	10.00	10.00	0.00
8,000.0	10.54	0.01	7,946.8	-124.6	636.2	-125.4	10.00	10.00	0.00
8,100.0	20.54	0.01	8,043.0	-97.9	636.2	-98.7	10.00	10.00	0.00

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Ray State Com #123H
Company:	Matador Production Company	**TVD Reference:**	KB @ 2989.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 2989.5usft
Site:	Ray State	**North Reference:**	Grid
Well:	Ray State Com #123H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
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)
8,200.0	30.54	0.01	8,133.1	-54.8	636.2	-55.6	10.00	10.00	0.00
8,213.8	31.92	0.01	8,144.9	-47.6	636.2	-48.4	10.00	10.00	0.00
SBSG									
8,300.0	40.54	0.01	8,214.4	3.2	636.2	2.4	10.00	10.00	0.00
8,400.0	50.54	0.01	8,284.3	74.5	636.2	73.7	10.00	10.00	0.00
8,500.0	60.54	0.01	8,340.9	156.8	636.2	156.1	10.00	10.00	0.00
8,600.0	70.54	0.01	8,382.2	247.8	636.2	247.0	10.00	10.00	0.00
8,700.0	80.54	0.01	8,407.2	344.5	636.2	343.7	10.00	10.00	0.00
8,749.0	85.44	0.01	8,413.1	393.1	636.2	392.4	10.00	10.00	0.00
Start DLS 2.00 TFO -90.20									
8,752.5	85.79	0.01	8,413.4	396.6	636.2	395.8	10.00	10.00	0.00
Start 9996.5 hold at 8752.5 MD									
8,780.4	88.57	0.01	8,414.8	424.4	636.2	423.6	10.00	10.00	0.00
SBSG Target (120 Series)									
8,794.6	90.00	0.01	8,415.0	438.7	636.2	437.9	10.00	10.00	0.00
8,798.4	90.00	359.93	8,415.0	442.5	636.2	441.7	2.00	-0.01	-2.00
8,800.0	90.00	359.93	8,415.0	444.0	636.2	443.3	0.00	0.00	0.00
8,900.0	90.00	359.93	8,415.0	544.0	636.1	543.3	0.00	0.00	0.00
9,000.0	90.00	359.93	8,415.0	644.0	636.0	643.3	0.00	0.00	0.00
9,100.0	90.00	359.93	8,415.0	744.0	635.9	743.3	0.00	0.00	0.00
9,200.0	90.00	359.93	8,415.0	844.0	635.7	843.3	0.00	0.00	0.00
9,300.0	90.00	359.93	8,415.0	944.0	635.6	943.3	0.00	0.00	0.00
9,400.0	90.00	359.93	8,415.0	1,044.0	635.5	1,043.3	0.00	0.00	0.00
9,500.0	90.00	359.93	8,415.0	1,144.0	635.4	1,143.3	0.00	0.00	0.00
9,600.0	90.00	359.93	8,415.0	1,244.0	635.2	1,243.3	0.00	0.00	0.00
9,700.0	90.00	359.93	8,415.0	1,344.0	635.1	1,343.3	0.00	0.00	0.00
9,800.0	90.00	359.93	8,415.0	1,444.0	635.0	1,443.3	0.00	0.00	0.00
9,900.0	90.00	359.93	8,415.0	1,544.0	634.9	1,543.3	0.00	0.00	0.00
10,000.0	90.00	359.93	8,415.0	1,644.0	634.7	1,643.3	0.00	0.00	0.00
10,100.0	90.00	359.93	8,415.0	1,744.0	634.6	1,743.3	0.00	0.00	0.00
10,200.0	90.00	359.93	8,415.0	1,844.0	634.5	1,843.3	0.00	0.00	0.00
10,300.0	90.00	359.93	8,415.0	1,944.0	634.4	1,943.3	0.00	0.00	0.00
10,400.0	90.00	359.93	8,415.0	2,044.0	634.2	2,043.3	0.00	0.00	0.00
10,500.0	90.00	359.93	8,415.0	2,144.0	634.1	2,143.3	0.00	0.00	0.00
10,600.0	90.00	359.93	8,415.0	2,244.0	634.0	2,243.3	0.00	0.00	0.00
10,700.0	90.00	359.93	8,415.0	2,344.0	633.9	2,343.3	0.00	0.00	0.00
10,800.0	90.00	359.93	8,415.0	2,444.0	633.8	2,443.3	0.00	0.00	0.00
10,900.0	90.00	359.93	8,415.0	2,544.0	633.6	2,543.3	0.00	0.00	0.00
11,000.0	90.00	359.93	8,415.0	2,644.0	633.5	2,643.3	0.00	0.00	0.00
11,100.0	90.00	359.93	8,415.0	2,744.0	633.4	2,743.3	0.00	0.00	0.00
11,200.0	90.00	359.93	8,415.0	2,844.0	633.3	2,843.3	0.00	0.00	0.00
11,300.0	90.00	359.93	8,415.0	2,944.0	633.1	2,943.3	0.00	0.00	0.00
11,400.0	90.00	359.93	8,415.0	3,044.0	633.0	3,043.3	0.00	0.00	0.00
11,500.0	90.00	359.93	8,415.0	3,144.0	632.9	3,143.3	0.00	0.00	0.00
11,600.0	90.00	359.93	8,415.0	3,244.0	632.8	3,243.3	0.00	0.00	0.00
11,700.0	90.00	359.93	8,415.0	3,344.0	632.6	3,343.3	0.00	0.00	0.00
11,800.0	90.00	359.93	8,415.0	3,444.0	632.5	3,443.3	0.00	0.00	0.00
11,900.0	90.00	359.93	8,415.0	3,544.0	632.4	3,543.3	0.00	0.00	0.00
12,000.0	90.00	359.93	8,415.0	3,644.0	632.3	3,643.3	0.00	0.00	0.00
12,100.0	90.00	359.93	8,415.0	3,744.0	632.1	3,743.3	0.00	0.00	0.00
12,200.0	90.00	359.93	8,415.0	3,844.0	632.0	3,843.3	0.00	0.00	0.00
12,300.0	90.00	359.93	8,415.0	3,944.0	631.9	3,943.3	0.00	0.00	0.00
12,400.0	90.00	359.93	8,415.0	4,044.0	631.8	4,043.3	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Ray State Com #123H
Company:	Matador Production Company	**TVD Reference:**	KB @ 2989.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 2989.5usft
Site:	Ray State	**North Reference:**	Grid
Well:	Ray State Com #123H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
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)
12,500.0	90.00	359.93	8,415.0	4,144.0	631.7	4,143.3	0.00	0.00	0.00
12,600.0	90.00	359.93	8,415.0	4,244.0	631.5	4,243.3	0.00	0.00	0.00
12,700.0	90.00	359.93	8,415.0	4,344.0	631.4	4,343.3	0.00	0.00	0.00
12,800.0	90.00	359.93	8,415.0	4,444.0	631.3	4,443.3	0.00	0.00	0.00
12,900.0	90.00	359.93	8,415.0	4,544.0	631.2	4,543.3	0.00	0.00	0.00
13,000.0	90.00	359.93	8,415.0	4,644.0	631.0	4,643.3	0.00	0.00	0.00
13,100.0	90.00	359.93	8,415.0	4,744.0	630.9	4,743.3	0.00	0.00	0.00
13,200.0	90.00	359.93	8,415.0	4,844.0	630.8	4,843.3	0.00	0.00	0.00
13,300.0	90.00	359.93	8,415.0	4,944.0	630.7	4,943.3	0.00	0.00	0.00
13,400.0	90.00	359.93	8,415.0	5,044.0	630.5	5,043.3	0.00	0.00	0.00
13,500.0	90.00	359.93	8,415.0	5,144.0	630.4	5,143.3	0.00	0.00	0.00
13,600.0	90.00	359.93	8,415.0	5,244.0	630.3	5,243.3	0.00	0.00	0.00
13,700.0	90.00	359.93	8,415.0	5,344.0	630.2	5,343.3	0.00	0.00	0.00
13,800.0	90.00	359.93	8,415.0	5,444.0	630.0	5,443.3	0.00	0.00	0.00
13,900.0	90.00	359.93	8,415.0	5,544.0	629.9	5,543.3	0.00	0.00	0.00
14,000.0	90.00	359.93	8,415.0	5,644.0	629.8	5,643.3	0.00	0.00	0.00
14,100.0	90.00	359.93	8,415.0	5,744.0	629.7	5,743.3	0.00	0.00	0.00
14,200.0	90.00	359.93	8,415.0	5,844.0	629.6	5,843.3	0.00	0.00	0.00
14,300.0	90.00	359.93	8,415.0	5,944.0	629.4	5,943.3	0.00	0.00	0.00
14,400.0	90.00	359.93	8,415.0	6,044.0	629.3	6,043.3	0.00	0.00	0.00
14,500.0	90.00	359.93	8,415.0	6,144.0	629.2	6,143.3	0.00	0.00	0.00
14,600.0	90.00	359.93	8,415.0	6,244.0	629.1	6,243.3	0.00	0.00	0.00
14,700.0	90.00	359.93	8,415.0	6,344.0	628.9	6,343.3	0.00	0.00	0.00
14,800.0	90.00	359.93	8,415.0	6,444.0	628.8	6,443.3	0.00	0.00	0.00
14,900.0	90.00	359.93	8,415.0	6,544.0	628.7	6,543.3	0.00	0.00	0.00
15,000.0	90.00	359.93	8,415.0	6,644.0	628.6	6,643.3	0.00	0.00	0.00
15,100.0	90.00	359.93	8,415.0	6,744.0	628.4	6,743.3	0.00	0.00	0.00
15,200.0	90.00	359.93	8,415.0	6,844.0	628.3	6,843.3	0.00	0.00	0.00
15,300.0	90.00	359.93	8,415.0	6,944.0	628.2	6,943.3	0.00	0.00	0.00
15,400.0	90.00	359.93	8,415.0	7,044.0	628.1	7,043.3	0.00	0.00	0.00
15,500.0	90.00	359.93	8,415.0	7,144.0	627.9	7,143.3	0.00	0.00	0.00
15,600.0	90.00	359.93	8,415.0	7,244.0	627.8	7,243.3	0.00	0.00	0.00
15,700.0	90.00	359.93	8,415.0	7,344.0	627.7	7,343.3	0.00	0.00	0.00
15,800.0	90.00	359.93	8,415.0	7,444.0	627.6	7,443.3	0.00	0.00	0.00
15,900.0	90.00	359.93	8,415.0	7,544.0	627.5	7,543.3	0.00	0.00	0.00
16,000.0	90.00	359.93	8,415.0	7,644.0	627.3	7,643.3	0.00	0.00	0.00
16,100.0	90.00	359.93	8,415.0	7,744.0	627.2	7,743.3	0.00	0.00	0.00
16,200.0	90.00	359.93	8,415.0	7,844.0	627.1	7,843.3	0.00	0.00	0.00
16,300.0	90.00	359.93	8,415.0	7,944.0	627.0	7,943.3	0.00	0.00	0.00
16,400.0	90.00	359.93	8,415.0	8,044.0	626.8	8,043.3	0.00	0.00	0.00
16,500.0	90.00	359.93	8,415.0	8,144.0	626.7	8,143.3	0.00	0.00	0.00
16,600.0	90.00	359.93	8,415.0	8,244.0	626.6	8,243.3	0.00	0.00	0.00
16,700.0	90.00	359.93	8,415.0	8,344.0	626.5	8,343.3	0.00	0.00	0.00
16,800.0	90.00	359.93	8,415.0	8,444.0	626.3	8,443.3	0.00	0.00	0.00
16,900.0	90.00	359.93	8,415.0	8,544.0	626.2	8,543.3	0.00	0.00	0.00
17,000.0	90.00	359.93	8,415.0	8,644.0	626.1	8,643.3	0.00	0.00	0.00
17,100.0	90.00	359.93	8,415.0	8,744.0	626.0	8,743.3	0.00	0.00	0.00
17,200.0	90.00	359.93	8,415.0	8,844.0	625.9	8,843.3	0.00	0.00	0.00
17,300.0	90.00	359.93	8,415.0	8,944.0	625.7	8,943.3	0.00	0.00	0.00
17,400.0	90.00	359.93	8,415.0	9,044.0	625.6	9,043.3	0.00	0.00	0.00
17,500.0	90.00	359.93	8,415.0	9,144.0	625.5	9,143.3	0.00	0.00	0.00
17,600.0	90.00	359.93	8,415.0	9,244.0	625.4	9,243.3	0.00	0.00	0.00
17,700.0	90.00	359.93	8,415.0	9,344.0	625.2	9,343.3	0.00	0.00	0.00
17,800.0	90.00	359.93	8,415.0	9,444.0	625.1	9,443.3	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Ray State Com #123H
Company:	Matador Production Company	**TVD Reference:**	KB @ 2989.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 2989.5usft
Site:	Ray State	**North Reference:**	Grid
Well:	Ray State Com #123H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
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)
17,900.0	90.00	359.93	8,415.0	9,544.0	625.0	9,543.3	0.00	0.00	0.00
18,000.0	90.00	359.93	8,415.0	9,644.0	624.9	9,643.3	0.00	0.00	0.00
18,100.0	90.00	359.93	8,415.0	9,744.0	624.7	9,743.3	0.00	0.00	0.00
18,200.0	90.00	359.93	8,415.0	9,844.0	624.6	9,843.3	0.00	0.00	0.00
18,300.0	90.00	359.93	8,415.0	9,944.0	624.5	9,943.3	0.00	0.00	0.00
18,400.0	90.00	359.93	8,415.0	10,044.0	624.4	10,043.3	0.00	0.00	0.00
18,500.0	90.00	359.93	8,415.0	10,144.0	624.2	10,143.3	0.00	0.00	0.00
18,600.0	90.00	359.93	8,415.0	10,244.0	624.1	10,243.3	0.00	0.00	0.00
18,700.0	90.00	359.93	8,415.0	10,344.0	624.0	10,343.3	0.00	0.00	0.00
18,749.1	90.00	359.93	8,415.0	10,393.1	623.9	10,392.3	0.00	0.00	0.00
TD at 18749.1									
18,794.7	90.00	359.93	8,415.0	10,438.7	623.9	10,437.9	0.00	0.00	0.00
BHL - Ray State Com #123H									

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
VP - Ray State Com # - plan hits target center - Point	0.00	0.00	7,842.0	-134.3	636.2	456,366.00	591,245.00	32° 15' 15.560 N	104° 2' 17.421 W
BHL - Ray State Com - plan hits target center - Point	0.00	0.00	8,415.0	10,438.7	623.9	466,939.39	591,232.78	32° 17' 0.197 N	104° 2' 17.225 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
21.0	21.0	Rustler			
425.0	425.0	Top Salt			
2,675.0	2,675.0	Lamar (Base Salt)			
6,434.3	6,392.2	BSGL			
7,446.0	7,393.4	FBSG			
7,663.3	7,610.7	SBSC			
8,213.8	8,144.9	SBSG			
8,780.4	8,414.8	SBSG Target (120 Series)			

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Ray State Com #123H
Company:	Matador Production Company	**TVD Reference:**	KB @ 2989.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 2989.5usft
Site:	Ray State	**North Reference:**	Grid
Well:	Ray State Com #123H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
3,000.0	3,000.0	0.0	0.0	Start Build 1.00
3,800.0	3,797.4	-11.5	54.6	Start 279.5 hold at 3800.0 MD
4,079.5	4,073.3	-20.8	98.7	Start Drop -1.50
4,612.9	4,598.5	-40.0	189.3	Start 3236.2 hold at 4612.9 MD
7,849.0	7,796.4	-134.3	636.2	Start Build 10.00
8,749.0	8,413.1	393.1	636.2	Start DLS 2.00 TFO -90.20
8,752.5	8,413.4	396.6	636.2	Start 9996.5 hold at 8752.5 MD
18,749.1	8,415.0	10,393.1	623.9	TD at 18749.1