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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
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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 305795

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 30-025-49699

4. Property Code	5. Property Name	6. Well No.
332052	FLORENCE 2314 STATE	114H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
O	23	23S	34E	O	210	S	1376	E	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
A	14	23S	34E	A	60	N	330	E	Lea

9. Pool Information

ANTELOPE RIDGE;BONE SPRING, WEST	2209

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3381
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	20367	Bone Spring		1/20/2022
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	1020	434	0
Int1	9.875	7.625	29.7	9300	908	0
Prod	6.75	5.5	20	20367	1241	8300

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 Brett A Jennings	Approved By:	Paul F Kautz	
Title:	Regulatory Analyst	Title:	Geologist	
Email Address:	brett.jennings@matadorresources.com	Approved Date:	1/3/2022	Expiration Date: 1/3/2024
Date:	1/3/2022 Phone: 972-629-2160	Conditions of Approval Attached		

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State of New Mexico
Energy, Minerals & Natural Resources
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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
30-025-49699	2209	ANTELOPE RIDGE; BONE SPRING, WEST

[4]Property Code	[5]Property Name	[6]Well Number
332052	FLORENCE STATE 2314	114H

[7]OGRID No.	[8]Operator Name	[9]Elevation
228937	MATADOR PRODUCTION COMPANY	3381'

[10]Surface Location

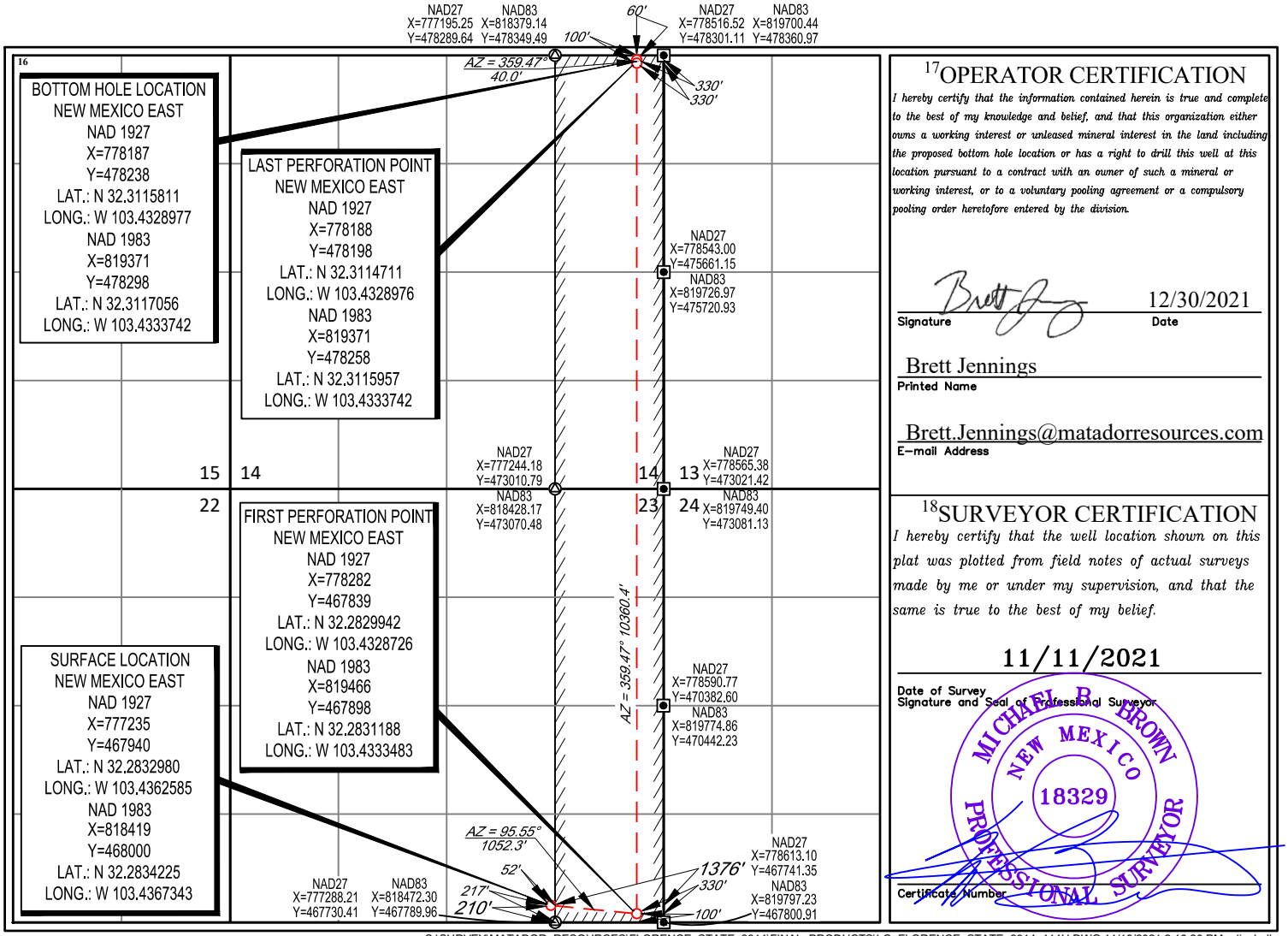
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	23	23-S	34-E	–	210'	SOUTH	1376'	EAST	LEA

[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
A	14	23-S	34-E	–	60'	NORTH	330'	EAST	LEA

[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.



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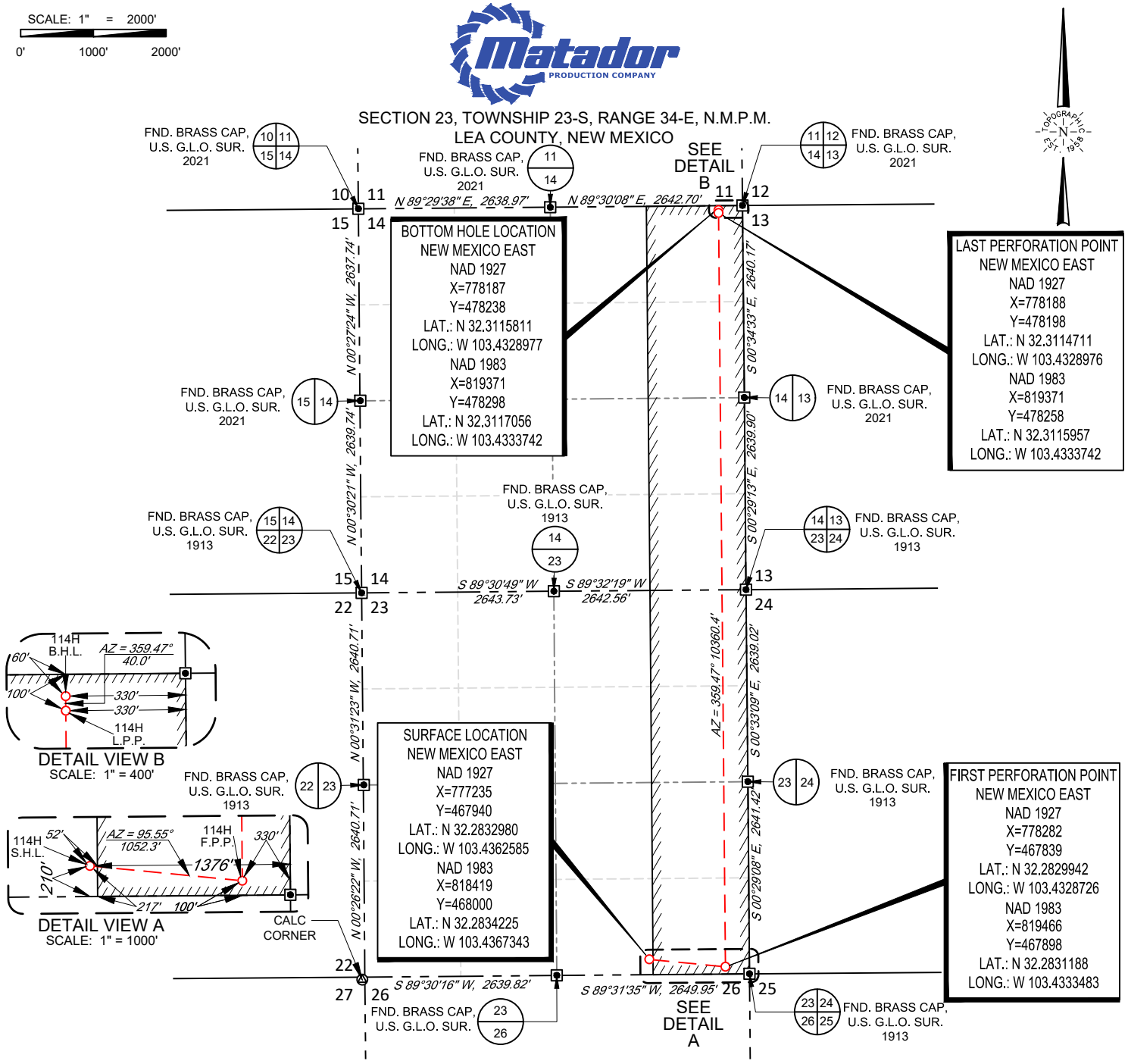
SCALE: 1" = 2000'

0' 1000' 2000'

Matador PRODUCTION COMPANY

SECTION 23, TOWNSHIP 23-S, RANGE 34-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: FLORENCE STATE 2314 114H

SECTION 23 TWP 23-S RGE 34-E SURVEY N.M.P.M.

COUNTY LEA STATE NM

DESCRIPTION 210' FSL & 1376' FEL

DISTANCE & DIRECTION

FROM INT. OF NM-128 W & DELAWARE BASIN RD., GO NORTH ON DELAWARE BASIN RD. ±3.0 MILES, THENCE EAST (RIGHT) ON CR. 21-B/J-21/SHELL RD. ±2.3 MILES, THENCE NORTH (LEFT) ON ANTELOPE RD./CR. 21-B ±0.7 MILES, THENCE EAST (RIGHT) ON A PROPOSED RD. ±3.2 MILES, THENCE NORTH (LEFT) ON A PROPOSED RD. ±1.1 MILES, THENCE NORTHWEST (LEFT) ON A PROPOSED RD. ±1.2 MILES TO A POINT ±461 FEET SOUTHEAST OF THIS 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.

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

MICHAEL B. BROWN NEW MEXICO 18329 PROFESSIONAL SURVEYOR

MICHAEL BLAKE BROWN, P.S. No. 18329
NOVEMBER 18, 2021

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
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TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
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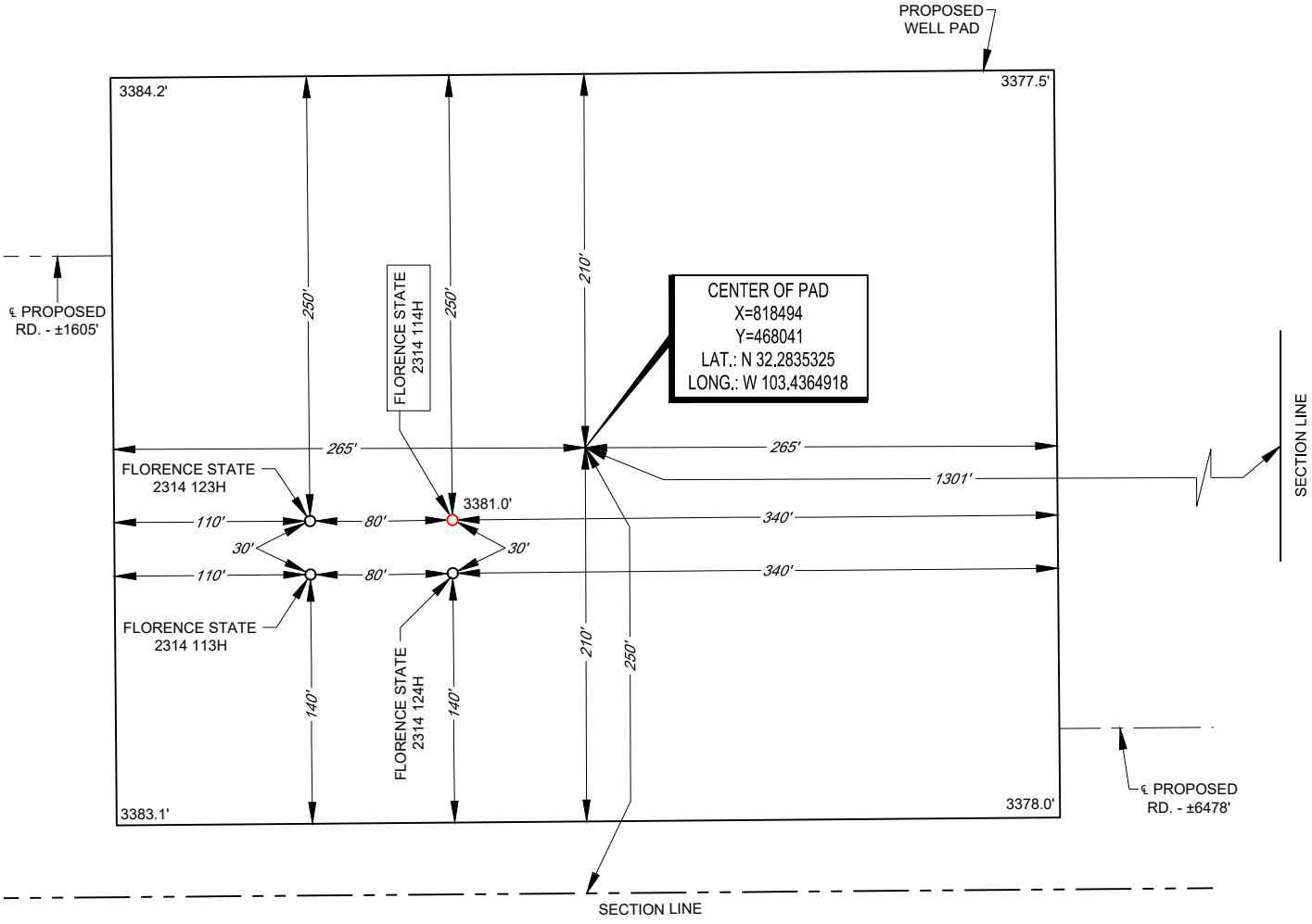
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

LEGEND

SECTION LINE
PROPOSED ROAD

SECTION 23, TOWNSHIP 23-S, RANGE 34-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'



LEASE NAME & WELL NO.: FLORENCE STATE 2314 114H

114H LATITUDE N 32.2834225 114H LONGITUDE W 103.4367343

CENTER OF PAD IS 250' FSL & 1301' FEL

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

MICHAEL B. BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR

Michael Blake Brown, P.S. No. 18329

November 18, 2021

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ORIGINAL DOCUMENT SIZE: 8.5" X 11"

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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 305795

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	30-025-49699
	Well: FLORENCE 2314 STATE #114H

OCD Reviewer	Condition
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
pkautz	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
pkautz	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	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

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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
30-025-49699	2209	ANTELOPE RIDGE; BONE SPRING, WEST

[4]Property Code	[5]Property Name	[6]Well Number
332052	FLORENCE STATE 2314	114H

[7]OGRID No.	[8]Operator Name	[9]Elevation
228937	MATADOR PRODUCTION COMPANY	3381'

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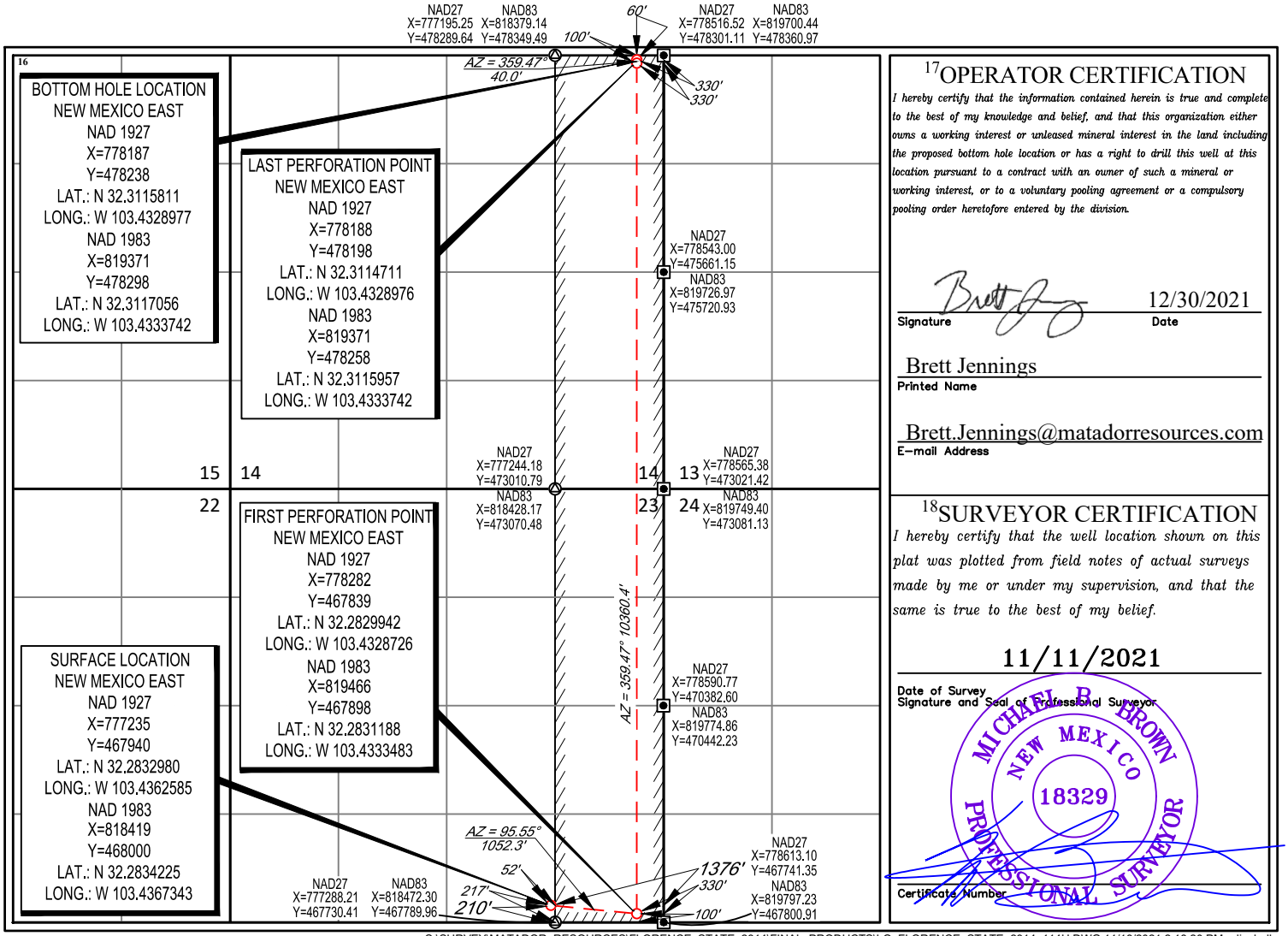

[17]OPERATOR CERTIFICATION

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.

Signature — Date: 12/30/2021

Brett Jennings
Printed Name

Brett.Jennings@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.

11/11/2021
Date of Survey
Signature and Seal of Professional Surveyor

MICHAEL B. BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR

Certificate Number

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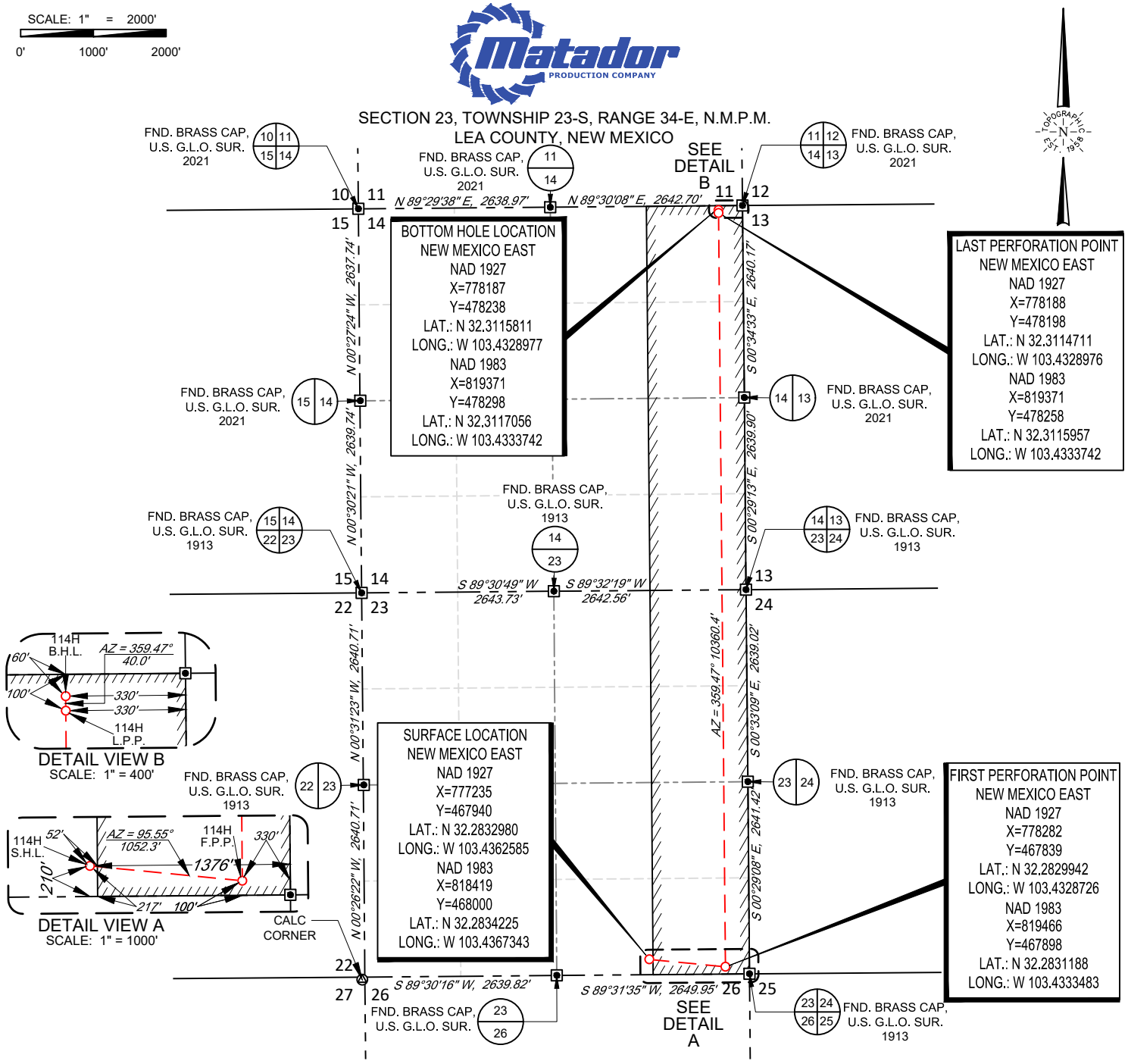
SCALE: 1" = 2000'

0' 1000' 2000'

Matador PRODUCTION COMPANY

SECTION 23, TOWNSHIP 23-S, RANGE 34-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: FLORENCE STATE 2314 114H

SECTION 23 TWP 23-S RGE 34-E SURVEY N.M.P.M.

COUNTY LEA STATE NM

DESCRIPTION 210' FSL & 1376' FEL

DISTANCE & DIRECTION

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MICHAEL BLAKE BROWN, P.S. No. 18329
NOVEMBER 18, 2021

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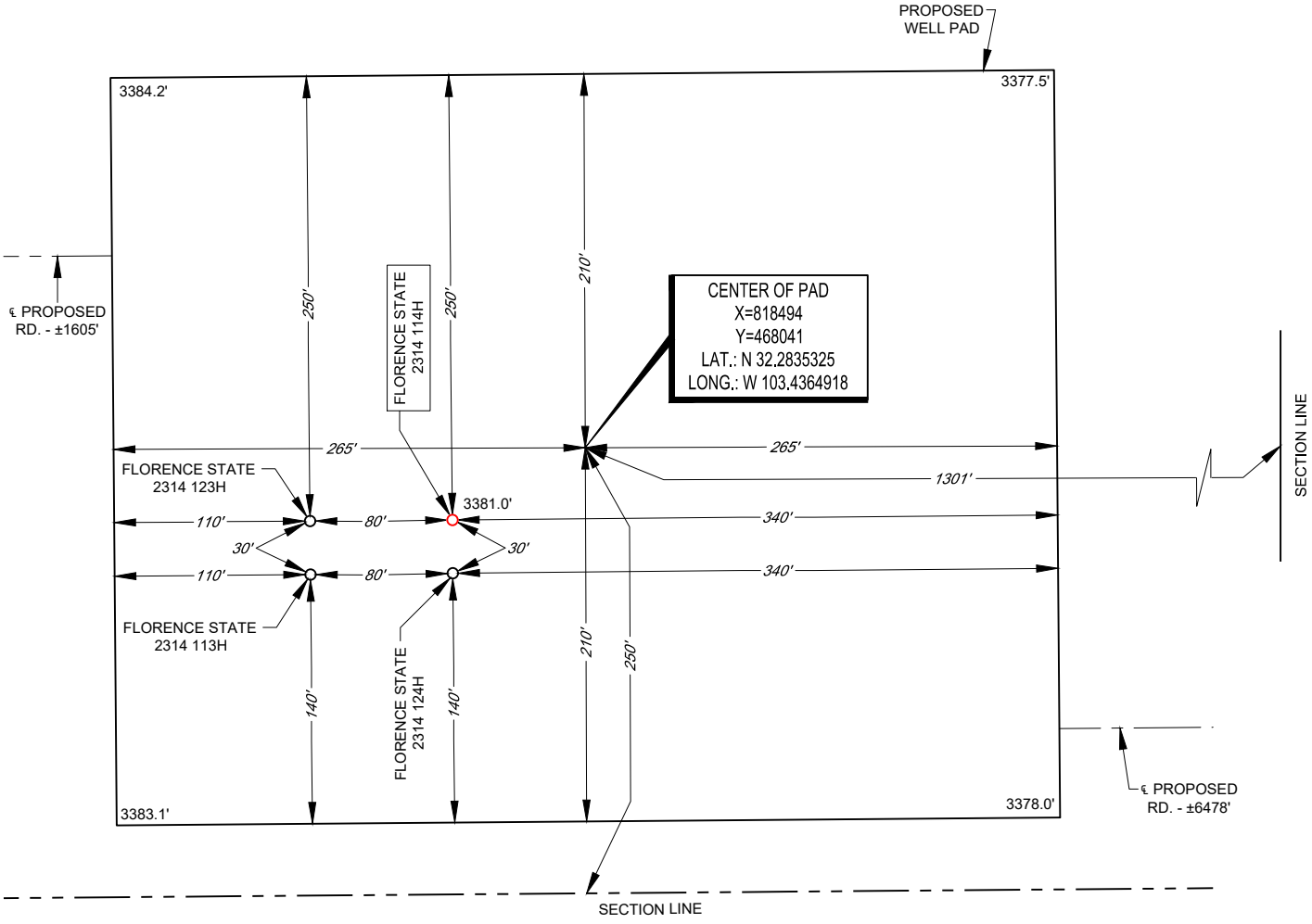
LEGEND

SECTION LINE
PROPOSED ROAD

SECTION 23, TOWNSHIP 23-S, RANGE 34-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

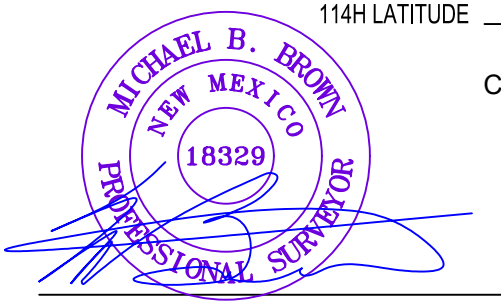
DETAIL VIEW
SCALE: 1" = 100'



LEASE NAME & WELL NO.: FLORENCE STATE 2314 114H

114H LATITUDE N 32.2834225 114H LONGITUDE W 103.4367343

CENTER OF PAD IS 250' FSL & 1301' FEL



Michael Blake Brown, P.S. No. 18329

November 18, 2021

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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: Matador Production Company **OGRID:** 228937 **Date:** 12/28/21

II. Type: ☒Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Florence State 2314 #113H	TBD	UL-O Sec 23&14 T23S R34E	180' FSL 1,456' FEL	1,650	2,500	3,750
Florence State 2314 #114H	TBD	UL-O Sec 23&14 T23S R34E	210' FSL 1,376' FEL	1,650	2,500	3,750
Florence State 2314 #123H	TBD	UL-O Sec 23&14 T23S R34E	210' FSL 1,456' FEL	1,400	1,750	2,000
Florence State 2314 #124H	TBD	UL-O Sec 23&14 T23S R34E	180' FSL 1,376' FEL	1,400	1,750	2,000

IV. Central Delivery Point Name: Florence TB [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Florence State 2314 #113H	TBD	2/19/22	4/14/22	5/31/22	8/9/22	8/9/22
Florence State 2314 #114H	TBD	4/7/22	4/30/22	5/31/22	8/9/22	8/9/22
Florence State 2314 #123H	TBD	1/27/22	4/6/22	5/31/22	8/9/22	8/9/22
Florence State 2314 #124H	TBD	3/15/22	4/22/22	5/31/22	8/9/22	8/9/22

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.

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. ☐ 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 ☐ will ☐ 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 ☐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: Ben Peterson
Title: Staff Production Engineer
E-mail Address: bpeterson@matadorresources.com
Date: 12-28-21
Phone: (972) 371-5427
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

Florence State 2314 #113H, #114H, #123H, #124H

VI. Separation Equipment

Flow from each well 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. Expected production from the 113H and 114H wells is approximately 2,500 mcfd, 1,650 bopd, and 3,750 bwpd. Expected production from the 123H and 124H wells is approximately 1,750 mcfd, 1400 bopd, and 2,000 bwpd. 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.

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
Florence
Florence State Com #114H

Wellbore #1

Plan: State Plan #1

Standard Planning Report

10 December, 2021

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Florence State Com #114H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3409.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3409.5usft
Site:	Florence	**North Reference:**	Grid
Well:	Florence State Com #114H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Project Antelope Ridge

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 Florence

Site Position:		**Northing:**	467,939.47 usft	**Latitude:**	32° 16' 59.873 N
From:	Lat/Long	**Easting:**	777,124.90 usft	**Longitude:**	103° 26' 11.812 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.48 °

Well Florence State Com #114H

Well Position	**+N/-S**	0.9 usft	**Northing:**	467,940.36 usft	**Latitude:**	32° 16' 59.873 N
	+E/-W	110.0 usft	**Easting:**	777,234.92 usft	**Longitude:**	103° 26' 10.531 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,381.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/10/2021	6.40	60.08	47,526.17500928

Design State Plan #1

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.47

Plan Survey Tool Program **Date** 12/10/2021

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,006.4	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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,400.0	8.00	98.23	1,398.7	-4.0	27.6	2.00	2.00	0.00	98.23	
8,641.9	8.00	98.23	8,570.1	-148.2	1,025.1	0.00	0.00	0.00	0.00	
8,961.9	0.00	0.00	8,889.1	-151.4	1,047.2	2.50	-2.50	0.00	180.00	
9,229.8	0.00	0.00	9,157.0	-151.4	1,047.2	0.00	0.00	0.00	0.00	VP - Florence State
10,129.8	90.00	359.60	9,730.0	421.6	1,043.2	10.00	10.00	0.00	359.60	
10,136.2	90.00	359.47	9,730.0	427.9	1,043.1	2.00	0.00	-2.00	-90.11	
20,006.4	90.00	359.47	9,730.0	10,297.8	952.3	0.00	0.00	0.00	0.00	BHL - Florence Stat

Planning Report

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Site:	Florence	**North Reference:**	Grid
Well:	Florence State Com #114H	**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
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
335.0	0.00	0.00	335.0	0.0	0.0	0.0	0.00	0.00	0.00
Z (Dewey Lake (P))									
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
986.0	0.00	0.00	986.0	0.0	0.0	0.0	0.00	0.00	0.00
Z (Rustler)									
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
1,091.0	1.82	98.23	1,091.0	-0.2	1.4	-0.2	2.00	2.00	0.00
Z (Salado)									
1,100.0	2.00	98.23	1,100.0	-0.2	1.7	-0.3	2.00	2.00	0.00
1,200.0	4.00	98.23	1,199.8	-1.0	6.9	-1.1	2.00	2.00	0.00
1,300.0	6.00	98.23	1,299.5	-2.2	15.5	-2.4	2.00	2.00	0.00
1,400.0	8.00	98.23	1,398.7	-4.0	27.6	-4.2	2.00	2.00	0.00
Start 7241.9 hold at 1400.0 MD									
1,500.0	8.00	98.23	1,497.7	-6.0	41.4	-6.4	0.00	0.00	0.00
1,600.0	8.00	98.23	1,596.8	-8.0	55.1	-8.5	0.00	0.00	0.00
1,700.0	8.00	98.23	1,695.8	-10.0	68.9	-10.6	0.00	0.00	0.00
1,800.0	8.00	98.23	1,794.8	-12.0	82.7	-12.7	0.00	0.00	0.00
1,900.0	8.00	98.23	1,893.8	-13.9	96.5	-14.8	0.00	0.00	0.00
2,000.0	8.00	98.23	1,992.9	-15.9	110.2	-17.0	0.00	0.00	0.00
2,100.0	8.00	98.23	2,091.9	-17.9	124.0	-19.1	0.00	0.00	0.00
2,200.0	8.00	98.23	2,190.9	-19.9	137.8	-21.2	0.00	0.00	0.00
2,300.0	8.00	98.23	2,289.9	-21.9	151.6	-23.3	0.00	0.00	0.00
2,400.0	8.00	98.23	2,389.0	-23.9	165.3	-25.4	0.00	0.00	0.00
2,500.0	8.00	98.23	2,488.0	-25.9	179.1	-27.5	0.00	0.00	0.00
2,600.0	8.00	98.23	2,587.0	-27.9	192.9	-29.7	0.00	0.00	0.00
2,700.0	8.00	98.23	2,686.1	-29.9	206.7	-31.8	0.00	0.00	0.00
2,800.0	8.00	98.23	2,785.1	-31.9	220.4	-33.9	0.00	0.00	0.00
2,900.0	8.00	98.23	2,884.1	-33.9	234.2	-36.0	0.00	0.00	0.00
3,000.0	8.00	98.23	2,983.1	-35.8	248.0	-38.1	0.00	0.00	0.00
3,100.0	8.00	98.23	3,082.2	-37.8	261.8	-40.3	0.00	0.00	0.00
3,200.0	8.00	98.23	3,181.2	-39.8	275.5	-42.4	0.00	0.00	0.00
3,300.0	8.00	98.23	3,280.2	-41.8	289.3	-44.5	0.00	0.00	0.00
3,400.0	8.00	98.23	3,379.2	-43.8	303.1	-46.6	0.00	0.00	0.00
3,427.0	8.00	98.23	3,406.0	-44.3	306.8	-47.2	0.00	0.00	0.00
Z (Castile (T))									
3,500.0	8.00	98.23	3,478.3	-45.8	316.9	-48.7	0.00	0.00	0.00
3,600.0	8.00	98.23	3,577.3	-47.8	330.6	-50.8	0.00	0.00	0.00
3,700.0	8.00	98.23	3,676.3	-49.8	344.4	-53.0	0.00	0.00	0.00
3,800.0	8.00	98.23	3,775.3	-51.8	358.2	-55.1	0.00	0.00	0.00
3,900.0	8.00	98.23	3,874.4	-53.8	371.9	-57.2	0.00	0.00	0.00
4,000.0	8.00	98.23	3,973.4	-55.8	385.7	-59.3	0.00	0.00	0.00
4,021.8	8.00	98.23	3,995.0	-56.2	388.7	-59.8	0.00	0.00	0.00
Z (G30:CS14-CSB)									

Planning Report

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Site:	Florence	**North Reference:**	Grid
Well:	Florence State Com #114H	**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)
4,100.0	8.00	98.23	4,072.4	-57.7	399.5	-61.4	0.00	0.00	0.00
4,200.0	8.00	98.23	4,171.5	-59.7	413.3	-63.6	0.00	0.00	0.00
4,300.0	8.00	98.23	4,270.5	-61.7	427.0	-65.7	0.00	0.00	0.00
4,400.0	8.00	98.23	4,369.5	-63.7	440.8	-67.8	0.00	0.00	0.00
4,500.0	8.00	98.23	4,468.5	-65.7	454.6	-69.9	0.00	0.00	0.00
4,600.0	8.00	98.23	4,567.6	-67.7	468.4	-72.0	0.00	0.00	0.00
4,700.0	8.00	98.23	4,666.6	-69.7	482.1	-74.2	0.00	0.00	0.00
4,800.0	8.00	98.23	4,765.6	-71.7	495.9	-76.3	0.00	0.00	0.00
4,900.0	8.00	98.23	4,864.6	-73.7	509.7	-78.4	0.00	0.00	0.00
5,000.0	8.00	98.23	4,963.7	-75.7	523.5	-80.5	0.00	0.00	0.00
5,100.0	8.00	98.23	5,062.7	-77.7	537.2	-82.6	0.00	0.00	0.00
5,200.0	8.00	98.23	5,161.7	-79.6	551.0	-84.7	0.00	0.00	0.00
5,238.7	8.00	98.23	5,200.0	-80.4	556.3	-85.6	0.00	0.00	0.00
Z (G26: Bell Cyn.)									
5,300.0	8.00	98.23	5,260.7	-81.6	564.8	-86.9	0.00	0.00	0.00
5,400.0	8.00	98.23	5,359.8	-83.6	578.6	-89.0	0.00	0.00	0.00
5,500.0	8.00	98.23	5,458.8	-85.6	592.3	-91.1	0.00	0.00	0.00
5,600.0	8.00	98.23	5,557.8	-87.6	606.1	-93.2	0.00	0.00	0.00
5,700.0	8.00	98.23	5,656.9	-89.6	619.9	-95.3	0.00	0.00	0.00
5,800.0	8.00	98.23	5,755.9	-91.6	633.7	-97.5	0.00	0.00	0.00
5,900.0	8.00	98.23	5,854.9	-93.6	647.4	-99.6	0.00	0.00	0.00
6,000.0	8.00	98.23	5,953.9	-95.6	661.2	-101.7	0.00	0.00	0.00
6,088.9	8.00	98.23	6,042.0	-97.3	673.5	-103.6	0.00	0.00	0.00
Z (G13: Cherry Cyn.)									
6,100.0	8.00	98.23	6,053.0	-97.6	675.0	-103.8	0.00	0.00	0.00
6,200.0	8.00	98.23	6,152.0	-99.6	688.8	-105.9	0.00	0.00	0.00
6,300.0	8.00	98.23	6,251.0	-101.6	702.5	-108.0	0.00	0.00	0.00
6,400.0	8.00	98.23	6,350.0	-103.5	716.3	-110.2	0.00	0.00	0.00
6,500.0	8.00	98.23	6,449.1	-105.5	730.1	-112.3	0.00	0.00	0.00
6,600.0	8.00	98.23	6,548.1	-107.5	743.8	-114.4	0.00	0.00	0.00
6,700.0	8.00	98.23	6,647.1	-109.5	757.6	-116.5	0.00	0.00	0.00
6,800.0	8.00	98.23	6,746.1	-111.5	771.4	-118.6	0.00	0.00	0.00
6,900.0	8.00	98.23	6,845.2	-113.5	785.2	-120.8	0.00	0.00	0.00
7,000.0	8.00	98.23	6,944.2	-115.5	798.9	-122.9	0.00	0.00	0.00
7,100.0	8.00	98.23	7,043.2	-117.5	812.7	-125.0	0.00	0.00	0.00
7,200.0	8.00	98.23	7,142.3	-119.5	826.5	-127.1	0.00	0.00	0.00
7,300.0	8.00	98.23	7,241.3	-121.5	840.3	-129.2	0.00	0.00	0.00
7,400.0	8.00	98.23	7,340.3	-123.5	854.0	-131.3	0.00	0.00	0.00
7,428.0	8.00	98.23	7,368.0	-124.0	857.9	-131.9	0.00	0.00	0.00
Z (G7: Brushy Cyn.) Antelope Ridge									
7,500.0	8.00	98.23	7,439.3	-125.4	867.8	-133.5	0.00	0.00	0.00
7,600.0	8.00	98.23	7,538.4	-127.4	881.6	-135.6	0.00	0.00	0.00
7,700.0	8.00	98.23	7,637.4	-129.4	895.4	-137.7	0.00	0.00	0.00
7,800.0	8.00	98.23	7,736.4	-131.4	909.1	-139.8	0.00	0.00	0.00
7,900.0	8.00	98.23	7,835.4	-133.4	922.9	-141.9	0.00	0.00	0.00
8,000.0	8.00	98.23	7,934.5	-135.4	936.7	-144.1	0.00	0.00	0.00
8,100.0	8.00	98.23	8,033.5	-137.4	950.5	-146.2	0.00	0.00	0.00
8,200.0	8.00	98.23	8,132.5	-139.4	964.2	-148.3	0.00	0.00	0.00
8,300.0	8.00	98.23	8,231.6	-141.4	978.0	-150.4	0.00	0.00	0.00
8,400.0	8.00	98.23	8,330.6	-143.4	991.8	-152.5	0.00	0.00	0.00
8,500.0	8.00	98.23	8,429.6	-145.4	1,005.6	-154.7	0.00	0.00	0.00
8,600.0	8.00	98.23	8,528.6	-147.3	1,019.3	-156.8	0.00	0.00	0.00
8,641.9	8.00	98.23	8,570.1	-148.2	1,025.1	-157.7	0.00	0.00	0.00

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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)
Start Drop -2.50									
8,668.0	7.35	98.23	8,596.0	-148.7	1,028.6	-158.2	2.50	-2.50	0.00
Z (G4: BSGL (CS9))									
8,700.0	6.55	98.23	8,627.8	-149.2	1,032.4	-158.8	2.50	-2.50	0.00
8,800.0	4.05	98.23	8,727.3	-150.6	1,041.5	-160.2	2.50	-2.50	0.00
8,900.0	1.55	98.23	8,827.2	-151.3	1,046.4	-160.9	2.50	-2.50	0.00
8,961.9	0.00	0.00	8,889.1	-151.4	1,047.2	-161.1	2.50	-2.50	0.00
Start 267.9 hold at 8961.9 MD									
9,000.0	0.00	0.00	8,927.2	-151.4	1,047.2	-161.1	0.00	0.00	0.00
9,100.0	0.00	0.00	9,027.2	-151.4	1,047.2	-161.1	0.00	0.00	0.00
9,200.0	0.00	0.00	9,127.2	-151.4	1,047.2	-161.1	0.00	0.00	0.00
9,229.8	0.00	0.00	9,157.0	-151.4	1,047.2	-161.1	0.00	0.00	0.00
Start Build 10.00 - VP - Florence State Com #114H									
9,300.0	7.02	359.60	9,227.0	-147.1	1,047.2	-156.8	10.00	10.00	0.00
9,400.0	17.02	359.60	9,324.7	-126.3	1,047.0	-136.0	10.00	10.00	0.00
9,500.0	27.02	359.60	9,417.3	-88.8	1,046.7	-98.5	10.00	10.00	0.00
9,600.0	37.02	359.60	9,502.0	-35.9	1,046.4	-45.6	10.00	10.00	0.00
9,641.3	41.15	359.60	9,534.0	-9.9	1,046.2	-19.5	10.00	10.00	0.00
Z (L5.3: FBSC)									
9,700.0	47.02	359.60	9,576.2	31.0	1,045.9	21.3	10.00	10.00	0.00
9,800.0	57.02	359.60	9,637.6	109.7	1,045.4	100.0	10.00	10.00	0.00
9,900.0	67.02	359.60	9,684.5	197.9	1,044.7	188.2	10.00	10.00	0.00
10,000.0	77.02	359.60	9,715.3	292.9	1,044.1	283.2	10.00	10.00	0.00
10,100.0	87.02	359.60	9,729.2	391.8	1,043.4	382.1	10.00	10.00	0.00
10,129.8	90.00	359.60	9,730.0	421.6	1,043.2	411.9	10.00	10.00	0.00
Start DLS 2.00 TFO -90.11									
10,136.2	90.00	359.47	9,730.0	427.9	1,043.1	418.3	2.00	0.00	-2.00
Start 9870.2 hold at 10136.2 MD									
10,200.0	90.00	359.47	9,730.0	491.8	1,042.5	482.1	0.00	0.00	0.00
10,300.0	90.00	359.47	9,730.0	591.7	1,041.6	582.1	0.00	0.00	0.00
10,400.0	90.00	359.47	9,730.0	691.7	1,040.7	682.1	0.00	0.00	0.00
10,500.0	90.00	359.47	9,730.0	791.7	1,039.8	782.1	0.00	0.00	0.00
10,600.0	90.00	359.47	9,730.0	891.7	1,038.9	882.1	0.00	0.00	0.00
10,700.0	90.00	359.47	9,730.0	991.7	1,037.9	982.1	0.00	0.00	0.00
10,800.0	90.00	359.47	9,730.0	1,091.7	1,037.0	1,082.1	0.00	0.00	0.00
10,900.0	90.00	359.47	9,730.0	1,191.7	1,036.1	1,182.1	0.00	0.00	0.00
11,000.0	90.00	359.47	9,730.0	1,291.7	1,035.2	1,282.1	0.00	0.00	0.00
11,100.0	90.00	359.47	9,730.0	1,391.7	1,034.3	1,382.1	0.00	0.00	0.00
11,200.0	90.00	359.47	9,730.0	1,491.7	1,033.3	1,482.1	0.00	0.00	0.00
11,300.0	90.00	359.47	9,730.0	1,591.7	1,032.4	1,582.1	0.00	0.00	0.00
11,400.0	90.00	359.47	9,730.0	1,691.7	1,031.5	1,682.1	0.00	0.00	0.00
11,500.0	90.00	359.47	9,730.0	1,791.7	1,030.6	1,782.1	0.00	0.00	0.00
11,600.0	90.00	359.47	9,730.0	1,891.7	1,029.7	1,882.1	0.00	0.00	0.00
11,700.0	90.00	359.47	9,730.0	1,991.7	1,028.7	1,982.1	0.00	0.00	0.00
11,800.0	90.00	359.47	9,730.0	2,091.7	1,027.8	2,082.1	0.00	0.00	0.00
11,900.0	90.00	359.47	9,730.0	2,191.7	1,026.9	2,182.1	0.00	0.00	0.00
12,000.0	90.00	359.47	9,730.0	2,291.7	1,026.0	2,282.1	0.00	0.00	0.00
12,100.0	90.00	359.47	9,730.0	2,391.7	1,025.0	2,382.1	0.00	0.00	0.00
12,200.0	90.00	359.47	9,730.0	2,491.7	1,024.1	2,482.1	0.00	0.00	0.00
12,300.0	90.00	359.47	9,730.0	2,591.7	1,023.2	2,582.1	0.00	0.00	0.00
12,400.0	90.00	359.47	9,730.0	2,691.7	1,022.3	2,682.1	0.00	0.00	0.00
12,500.0	90.00	359.47	9,730.0	2,791.7	1,021.4	2,782.1	0.00	0.00	0.00
12,600.0	90.00	359.47	9,730.0	2,891.7	1,020.4	2,882.1	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Florence State Com #114H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3409.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3409.5usft
Site:	Florence	**North Reference:**	Grid
Well:	Florence State Com #114H	**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)
12,700.0	90.00	359.47	9,730.0	2,991.6	1,019.5	2,982.1	0.00	0.00	0.00
12,800.0	90.00	359.47	9,730.0	3,091.6	1,018.6	3,082.1	0.00	0.00	0.00
12,900.0	90.00	359.47	9,730.0	3,191.6	1,017.7	3,182.1	0.00	0.00	0.00
13,000.0	90.00	359.47	9,730.0	3,291.6	1,016.8	3,282.1	0.00	0.00	0.00
13,100.0	90.00	359.47	9,730.0	3,391.6	1,015.8	3,382.1	0.00	0.00	0.00
13,200.0	90.00	359.47	9,730.0	3,491.6	1,014.9	3,482.1	0.00	0.00	0.00
13,300.0	90.00	359.47	9,730.0	3,591.6	1,014.0	3,582.1	0.00	0.00	0.00
13,400.0	90.00	359.47	9,730.0	3,691.6	1,013.1	3,682.1	0.00	0.00	0.00
13,500.0	90.00	359.47	9,730.0	3,791.6	1,012.2	3,782.1	0.00	0.00	0.00
13,600.0	90.00	359.47	9,730.0	3,891.6	1,011.2	3,882.1	0.00	0.00	0.00
13,700.0	90.00	359.47	9,730.0	3,991.6	1,010.3	3,982.1	0.00	0.00	0.00
13,800.0	90.00	359.47	9,730.0	4,091.6	1,009.4	4,082.1	0.00	0.00	0.00
13,900.0	90.00	359.47	9,730.0	4,191.6	1,008.5	4,182.1	0.00	0.00	0.00
14,000.0	90.00	359.47	9,730.0	4,291.6	1,007.6	4,282.1	0.00	0.00	0.00
14,100.0	90.00	359.47	9,730.0	4,391.6	1,006.6	4,382.1	0.00	0.00	0.00
14,200.0	90.00	359.47	9,730.0	4,491.6	1,005.7	4,482.1	0.00	0.00	0.00
14,300.0	90.00	359.47	9,730.0	4,591.6	1,004.8	4,582.1	0.00	0.00	0.00
14,400.0	90.00	359.47	9,730.0	4,691.6	1,003.9	4,682.1	0.00	0.00	0.00
14,500.0	90.00	359.47	9,730.0	4,791.6	1,003.0	4,782.1	0.00	0.00	0.00
14,600.0	90.00	359.47	9,730.0	4,891.6	1,002.0	4,882.1	0.00	0.00	0.00
14,700.0	90.00	359.47	9,730.0	4,991.6	1,001.1	4,982.1	0.00	0.00	0.00
14,800.0	90.00	359.47	9,730.0	5,091.6	1,000.2	5,082.1	0.00	0.00	0.00
14,900.0	90.00	359.47	9,730.0	5,191.6	999.3	5,182.1	0.00	0.00	0.00
15,000.0	90.00	359.47	9,730.0	5,291.6	998.3	5,282.1	0.00	0.00	0.00
15,100.0	90.00	359.47	9,730.0	5,391.5	997.4	5,382.1	0.00	0.00	0.00
15,200.0	90.00	359.47	9,730.0	5,491.5	996.5	5,482.1	0.00	0.00	0.00
15,300.0	90.00	359.47	9,730.0	5,591.5	995.6	5,582.1	0.00	0.00	0.00
15,400.0	90.00	359.47	9,730.0	5,691.5	994.7	5,682.1	0.00	0.00	0.00
15,500.0	90.00	359.47	9,730.0	5,791.5	993.7	5,782.1	0.00	0.00	0.00
15,600.0	90.00	359.47	9,730.0	5,891.5	992.8	5,882.1	0.00	0.00	0.00
15,700.0	90.00	359.47	9,730.0	5,991.5	991.9	5,982.1	0.00	0.00	0.00
15,800.0	90.00	359.47	9,730.0	6,091.5	991.0	6,082.1	0.00	0.00	0.00
15,900.0	90.00	359.47	9,730.0	6,191.5	990.1	6,182.1	0.00	0.00	0.00
16,000.0	90.00	359.47	9,730.0	6,291.5	989.1	6,282.1	0.00	0.00	0.00
16,100.0	90.00	359.47	9,730.0	6,391.5	988.2	6,382.1	0.00	0.00	0.00
16,200.0	90.00	359.47	9,730.0	6,491.5	987.3	6,482.1	0.00	0.00	0.00
16,300.0	90.00	359.47	9,730.0	6,591.5	986.4	6,582.1	0.00	0.00	0.00
16,400.0	90.00	359.47	9,730.0	6,691.5	985.5	6,682.1	0.00	0.00	0.00
16,500.0	90.00	359.47	9,730.0	6,791.5	984.5	6,782.1	0.00	0.00	0.00
16,600.0	90.00	359.47	9,730.0	6,891.5	983.6	6,882.1	0.00	0.00	0.00
16,700.0	90.00	359.47	9,730.0	6,991.5	982.7	6,982.1	0.00	0.00	0.00
16,800.0	90.00	359.47	9,730.0	7,091.5	981.8	7,082.1	0.00	0.00	0.00
16,900.0	90.00	359.47	9,730.0	7,191.5	980.9	7,182.1	0.00	0.00	0.00
17,000.0	90.00	359.47	9,730.0	7,291.5	979.9	7,282.1	0.00	0.00	0.00
17,100.0	90.00	359.47	9,730.0	7,391.5	979.0	7,382.1	0.00	0.00	0.00
17,200.0	90.00	359.47	9,730.0	7,491.5	978.1	7,482.1	0.00	0.00	0.00
17,300.0	90.00	359.47	9,730.0	7,591.5	977.2	7,582.1	0.00	0.00	0.00
17,400.0	90.00	359.47	9,730.0	7,691.4	976.2	7,682.1	0.00	0.00	0.00
17,500.0	90.00	359.47	9,730.0	7,791.4	975.3	7,782.1	0.00	0.00	0.00
17,600.0	90.00	359.47	9,730.0	7,891.4	974.4	7,882.1	0.00	0.00	0.00
17,700.0	90.00	359.47	9,730.0	7,991.4	973.5	7,982.1	0.00	0.00	0.00
17,800.0	90.00	359.47	9,730.0	8,091.4	972.6	8,082.1	0.00	0.00	0.00
17,900.0	90.00	359.47	9,730.0	8,191.4	971.6	8,182.1	0.00	0.00	0.00
18,000.0	90.00	359.47	9,730.0	8,291.4	970.7	8,282.1	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Florence State Com #114H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3409.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3409.5usft
Site:	Florence	**North Reference:**	Grid
Well:	Florence State Com #114H	**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)
18,100.0	90.00	359.47	9,730.0	8,391.4	969.8	8,382.1	0.00	0.00	0.00
18,200.0	90.00	359.47	9,730.0	8,491.4	968.9	8,482.1	0.00	0.00	0.00
18,300.0	90.00	359.47	9,730.0	8,591.4	968.0	8,582.1	0.00	0.00	0.00
18,400.0	90.00	359.47	9,730.0	8,691.4	967.0	8,682.1	0.00	0.00	0.00
18,500.0	90.00	359.47	9,730.0	8,791.4	966.1	8,782.1	0.00	0.00	0.00
18,600.0	90.00	359.47	9,730.0	8,891.4	965.2	8,882.1	0.00	0.00	0.00
18,700.0	90.00	359.47	9,730.0	8,991.4	964.3	8,982.1	0.00	0.00	0.00
18,800.0	90.00	359.47	9,730.0	9,091.4	963.4	9,082.1	0.00	0.00	0.00
18,900.0	90.00	359.47	9,730.0	9,191.4	962.4	9,182.1	0.00	0.00	0.00
19,000.0	90.00	359.47	9,730.0	9,291.4	961.5	9,282.1	0.00	0.00	0.00
19,100.0	90.00	359.47	9,730.0	9,391.4	960.6	9,382.1	0.00	0.00	0.00
19,200.0	90.00	359.47	9,730.0	9,491.4	959.7	9,482.1	0.00	0.00	0.00
19,300.0	90.00	359.47	9,730.0	9,591.4	958.8	9,582.1	0.00	0.00	0.00
19,400.0	90.00	359.47	9,730.0	9,691.4	957.8	9,682.1	0.00	0.00	0.00
19,500.0	90.00	359.47	9,730.0	9,791.4	956.9	9,782.1	0.00	0.00	0.00
19,600.0	90.00	359.47	9,730.0	9,891.4	956.0	9,882.1	0.00	0.00	0.00
19,700.0	90.00	359.47	9,730.0	9,991.4	955.1	9,982.1	0.00	0.00	0.00
19,800.0	90.00	359.47	9,730.0	10,091.3	954.2	10,082.1	0.00	0.00	0.00
19,900.0	90.00	359.47	9,730.0	10,191.3	953.2	10,182.1	0.00	0.00	0.00
20,000.0	90.00	359.47	9,730.0	10,291.3	952.3	10,282.1	0.00	0.00	0.00
20,006.4	90.00	359.47	9,730.0	10,297.8	952.3	10,288.5	0.00	0.00	0.00
TD at 20006.4 - BHL - Florence State Com #114H									

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 - Florence State C - plan hits target center - Point	0.00	0.00	9,157.0	-151.4	1,047.2	467,789.00	778,282.00	32° 16' 58.288 N	103° 25' 58.349 W
BHL - Florence State - plan hits target center - Point	0.00	0.00	9,730.0	10,297.8	952.3	478,238.25	778,187.18	32° 18' 41.692 N	103° 25' 58.432 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
335.0	335.0	Z (Dewey Lake (P))			
986.0	986.0	Z (Rustler)			
1,091.0	1,091.0	Z (Salado)			
3,427.0	3,406.0	Z (Castile (T))			
4,021.8	3,995.0	Z (G30:CS14-CSB)			
5,238.7	5,200.0	Z (G26: Bell Cyn.)			
6,088.9	6,042.0	Z (G13: Cherry Cyn.)			
7,428.0	7,368.0	Z (G7: Brushy Cyn.) Antelope Ridge			
8,668.0	8,596.0	Z (G4: BSGL (CS9))			
9,641.3	9,534.0	Z (L5.3: FBSC)			

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Florence State Com #114H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3409.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3409.5usft
Site:	Florence	**North Reference:**	Grid
Well:	Florence State Com #114H	**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)	Local Coordinates +E/-W (usft)	Comment
1,000.0	1,000.0	0.0	0.0	Start Build 2.00
1,400.0	1,398.7	-4.0	27.6	Start 7241.9 hold at 1400.0 MD
8,641.9	8,570.1	-148.2	1,025.1	Start Drop -2.50
8,961.9	8,889.1	-151.4	1,047.2	Start 267.9 hold at 8961.9 MD
9,229.8	9,157.0	-151.4	1,047.2	Start Build 10.00
10,129.8	9,730.0	421.6	1,043.2	Start DLS 2.00 TFO -90.11
10,136.2	9,730.0	427.9	1,043.1	Start 9870.2 hold at 10136.2 MD
20,006.4	9,730.0	10,297.8	952.3	TD at 20006.4