

District I

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

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101

August 1, 2011

Permit 293114

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

1. Operator Name and Address MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240		2. OGRID Number 228937
		3. API Number 30-015-48082
4. Property Code 330255	5. Property Name BUBBA BURTON 14 15 24S 28E	6. Well No. 121H

7. Surface Location

UL - Lot A	Section 14	Township 24S	Range 28E	Lot Idn a	Feet From 539	N/S Line N	Feet From 330	E/W Line E	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot D	Section 15	Township 24S	Range 28E	Lot Idn D	Feet From 660	N/S Line N	Feet From 60	E/W Line W	County Eddy
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9. Pool Information

PIERCE CROSSING;BONE SPRING	50371
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 2977
16. Multiple N	17. Proposed Depth 18800	18. Formation Bone Spring	19. Contractor	20. Spud Date 7/1/2021
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	600	400	0
Int1	12.25	9.625	40	2750	730	0
Prod	8.75	5.5	20	18742	2900	2550

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

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

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

Signature:

Printed Name: Electronically filed by Brian Fancher

Title: Regulatory Manager

Email Address: bfancher@matadorresources.com

Date: 3/3/2021

Phone: 972-371-5242

OIL CONSERVATION DIVISION

Approved By: Kurt Simmons

Title: Petroleum Specialist - A

Approved Date: 3/5/2021 Expiration Date: 3/5/2023

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 50371		³ Pool Name Pierce Crossing; Bone Spring	
⁴ Property Code		⁵ Property Name BUBBA BURTON 14 & 15 24S-28E			⁶ Well Number 121H
⁷ OGRID No. 228937		⁸ Operator Name MATADOR PRODUCTION COMPANY			⁹ Elevation 2977'

¹⁰Surface Location

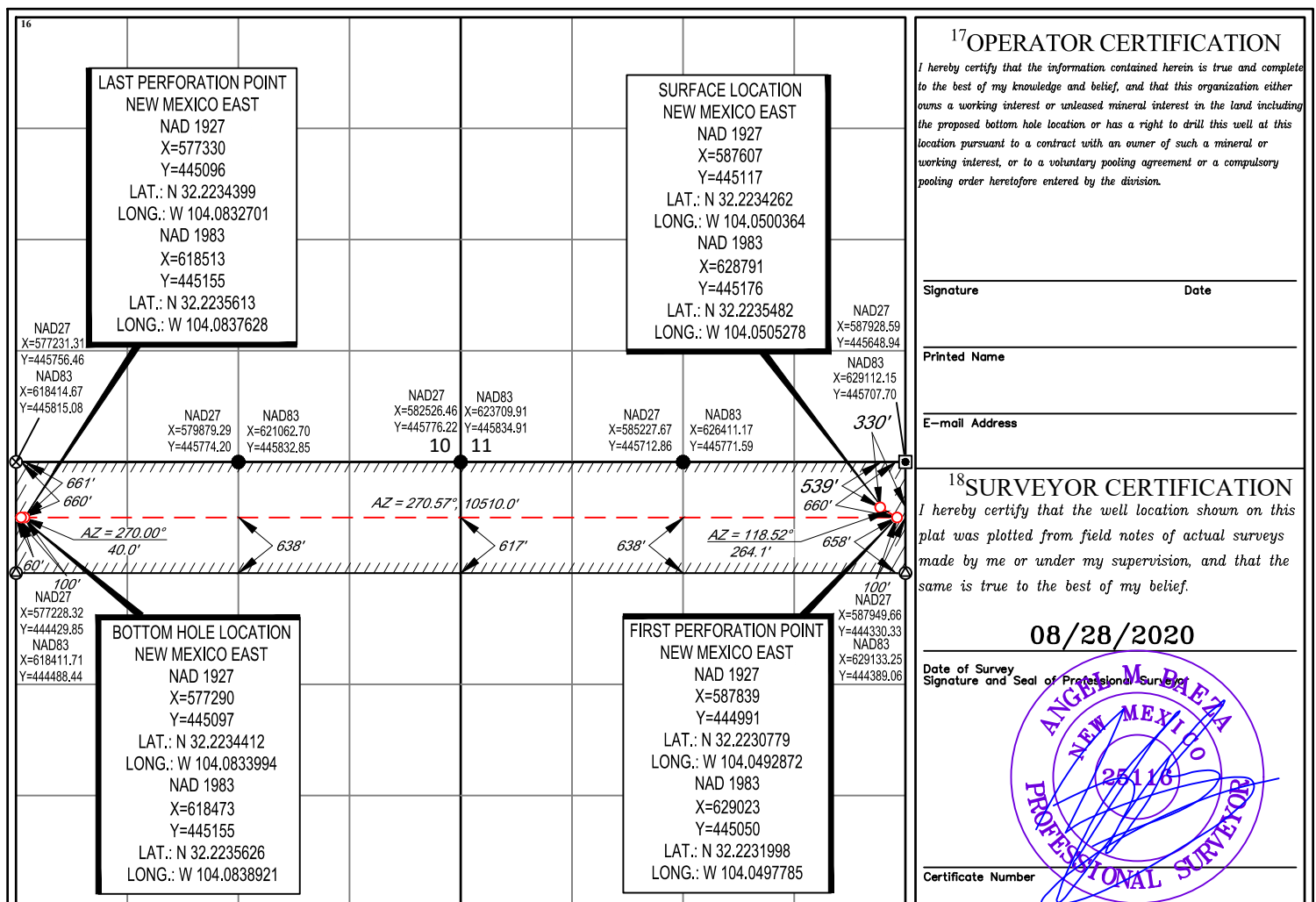
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	14	24-S	28-E	-	539'	NORTH	330'	EAST	EDDY

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	15	24-S	28-E	-	660'	NORTH	60'	WEST	EDDY

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

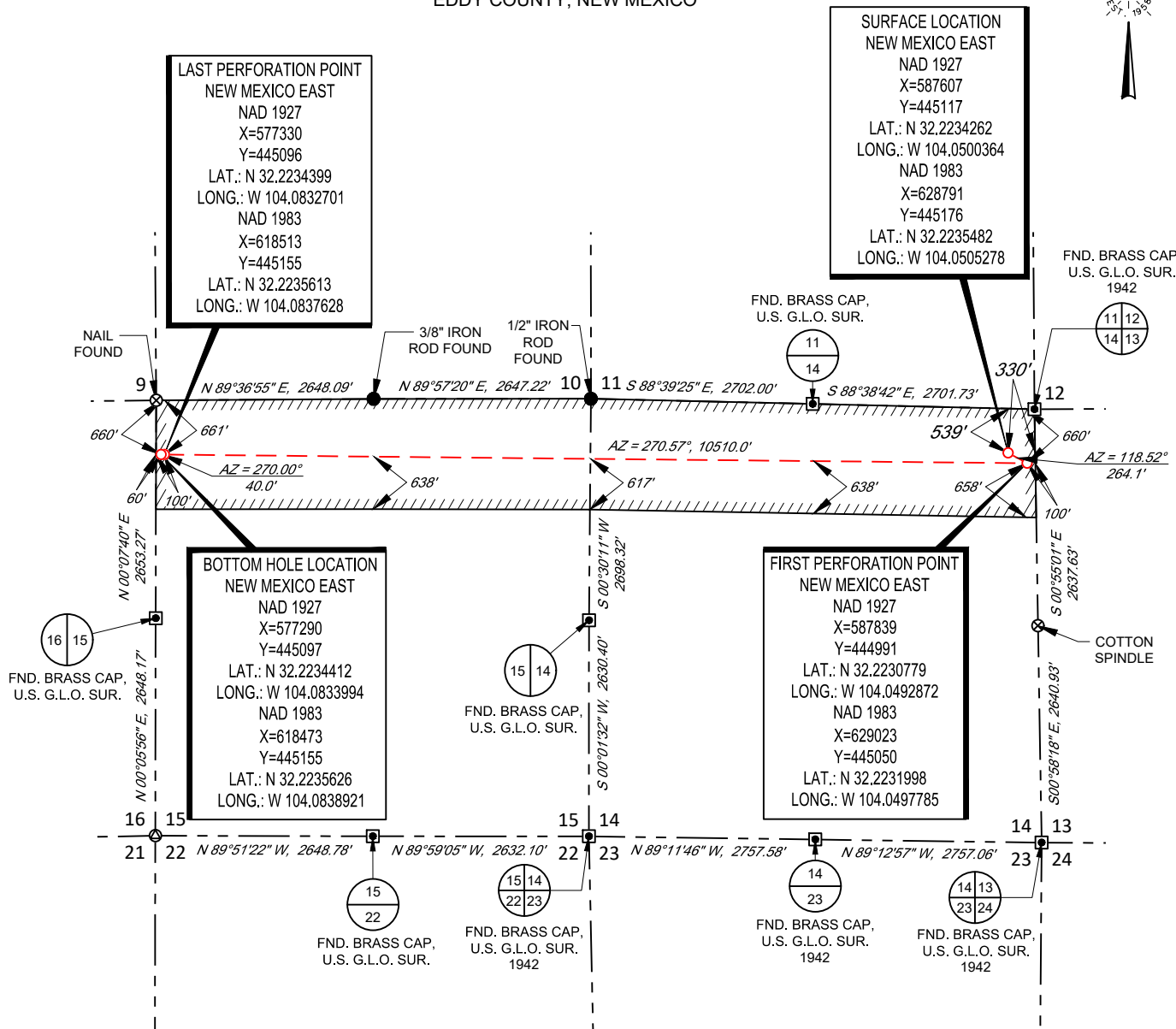
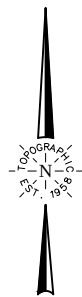


SCALE: 1" = 1000'

0' 500' 1000'



SECTION 14, TOWNSHIP 24-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: BUBBA BURTON 121H

SECTION 14 TWP 24-S RGE 28-E SURVEY N.M.P.M.

COUNTY EDDY STATE NM

DESCRIPTION 539' FNL & 330' FEL

DISTANCE & DIRECTION

FROM INT. OF DUARTE RD. & US-285. GO EAST ON DUARTE RD.
±1.3 MILES TO A POINT ±470 FEET NORTH 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

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.



Angel M. Baeza, P.S. No. 25116
SEPTEMBER 2, 2020



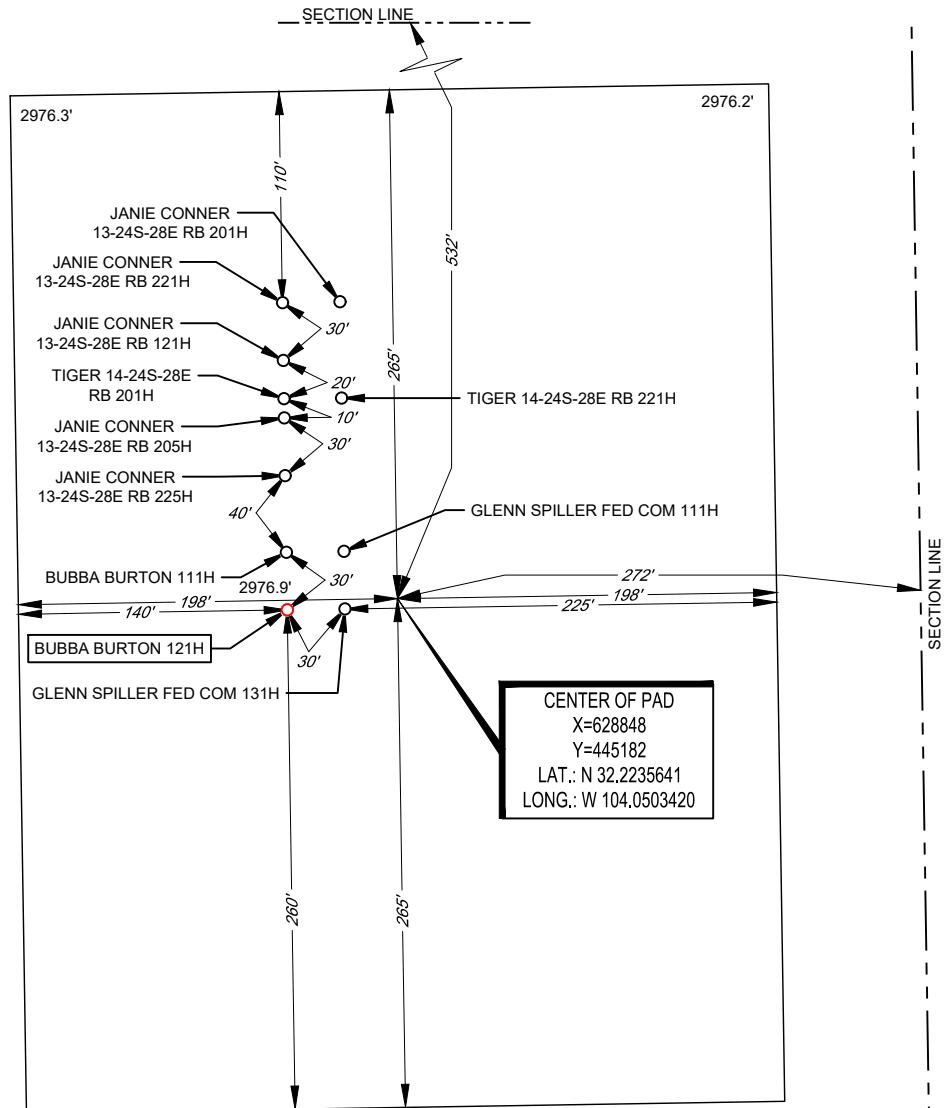
TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

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
WWW.TOPOGRAPHIC.COM



SECTION 14, TOWNSHIP 24-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 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. ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

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"

LEASE NAME & WELL NO.: BUBBA BURTON 121H
121H LATITUDE N 32.2235482 121H LONGITUDE W 104.0505278

CENTER OF PAD IS 532' FNL & 272' FEL



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



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GAS CAPTURE PLAN

Date: 3/5/2021

☒ Original

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

☐ Amended - Reason for
Amendment: _____

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

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

Well(s)/Production Facility – Name of facility

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

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
BUBBA BURTON 14 15 24S 28E #121H	30-015-48082	A-14-24S-28E	0539N 0330E	4000	None	

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 2000' 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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Form APD Comments

Permit 293114

PERMIT COMMENTS

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240		API Number: 30-015-48082
		Well: BUBBA BURTON 14 15 24S 28E #121H
Created By	Comment	Comment Date

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Form APD Conditions

Permit 293114

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	API Number: 30-015-48082
	Well: BUBBA BURTON 14 15 24S 28E #121H

OCD Reviewer	Condition
ksimmons	Notify OCD 24 hours prior to casing & cement
ksimmons	Will require a File As Drilled C-102 and a Directional Survey with the C-104
ksimmons	Cement is required to circulate on both surface and intermediate1 strings of casing
kpickford	Surface casing must be set 25' below top of Rustler Anhydrite or salt in order to seal off protectable water
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
kpickford	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
kpickford	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



Matador Production Company

Rustler Breaks

RB - Section 15/14/13/18 - Slot #1

Bubba Burton #121H

Wellbore #1

Plan: Design #1

Standard Planning Report

28 January, 2021



Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Bubba Burton #121H
Company:	Matador Production Company	TVD Reference:	KB @ 3005.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3005.5usft
Site:	RB - Section 15/14/13/18 - Slot #1	North Reference:	Grid
Well:	Bubba Burton #121H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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	RB - Section 15/14/13/18 - Slot #1		
Site Position:		Northing:	445,277.00 usft
From:	Map	Easting:	587,605.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 13' 25.918 N
		Longitude:	104° 3' 0.150 W
		Grid Convergence:	0.15 °

Well	Bubba Burton #121H		
Well Position	+N/-S	-160.0 usft	Northing:
	+E/-W	2.1 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.97	60.16	48,741.86016644

Design	Design #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	270.57

Plan Survey Tool Program	Date	1/28/2021		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	18,741.6	Design #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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,300.0	8.00	141.23	1,297.4	-43.5	34.9	1.00	1.00	0.00	141.23	
3,867.2	8.00	141.23	3,839.6	-322.0	258.7	0.00	0.00	0.00	0.00	
4,400.6	0.00	0.00	4,371.3	-351.0	281.9	1.50	-1.50	0.00	180.00	
7,789.3	0.00	0.00	7,760.0	-351.0	281.9	0.00	0.00	0.00	0.00	VP - Bubba Burton #1
8,689.3	90.00	284.65	8,333.0	-206.1	-272.4	10.00	10.00	0.00	284.65	
9,393.3	90.00	270.57	8,333.0	-113.1	-968.4	2.00	0.00	-2.00	-90.00	
18,742.2	90.00	270.57	8,333.0	-20.1	-10,316.8	0.00	0.00	0.00	0.00	BHL - Bubba Burton #



Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Bubba Burton #121H
Company:	Matador Production Company	TVD Reference:	KB @ 3005.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3005.5usft
Site:	RB - Section 15/14/13/18 - Slot #1	North Reference:	Grid
Well:	Bubba Burton #121H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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
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
Start Build 1.00									
600.0	1.00	141.23	600.0	-0.7	0.5	-0.6	1.00	1.00	0.00
700.0	2.00	141.23	700.0	-2.7	2.2	-2.2	1.00	1.00	0.00
800.0	3.00	141.23	799.9	-6.1	4.9	-5.0	1.00	1.00	0.00
900.0	4.00	141.23	899.7	-10.9	8.7	-8.8	1.00	1.00	0.00
1,000.0	5.00	141.23	999.4	-17.0	13.7	-13.8	1.00	1.00	0.00
1,100.0	6.00	141.23	1,098.9	-24.5	19.7	-19.9	1.00	1.00	0.00
1,200.0	7.00	141.23	1,198.3	-33.3	26.7	-27.1	1.00	1.00	0.00
1,300.0	8.00	141.23	1,297.4	-43.5	34.9	-35.3	1.00	1.00	0.00
Start 2567.2 hold at 1300.0 MD									
1,400.0	8.00	141.23	1,396.4	-54.3	43.6	-44.2	0.00	0.00	0.00
1,500.0	8.00	141.23	1,495.5	-65.2	52.3	-53.0	0.00	0.00	0.00
1,600.0	8.00	141.23	1,594.5	-76.0	61.1	-61.8	0.00	0.00	0.00
1,700.0	8.00	141.23	1,693.5	-86.9	69.8	-70.6	0.00	0.00	0.00
1,800.0	8.00	141.23	1,792.5	-97.7	78.5	-79.5	0.00	0.00	0.00
1,900.0	8.00	141.23	1,891.6	-108.6	87.2	-88.3	0.00	0.00	0.00
2,000.0	8.00	141.23	1,990.6	-119.4	95.9	-97.1	0.00	0.00	0.00
2,100.0	8.00	141.23	2,089.6	-130.3	104.6	-105.9	0.00	0.00	0.00
2,200.0	8.00	141.23	2,188.6	-141.1	113.4	-114.8	0.00	0.00	0.00
2,300.0	8.00	141.23	2,287.7	-152.0	122.1	-123.6	0.00	0.00	0.00
2,400.0	8.00	141.23	2,386.7	-162.8	130.8	-132.4	0.00	0.00	0.00
2,500.0	8.00	141.23	2,485.7	-173.7	139.5	-141.2	0.00	0.00	0.00
2,600.0	8.00	141.23	2,584.8	-184.5	148.2	-150.0	0.00	0.00	0.00
2,651.8	8.00	141.23	2,636.0	-190.1	152.7	-154.6	0.00	0.00	0.00
Lamar									
2,700.0	8.00	141.23	2,683.8	-195.4	156.9	-158.9	0.00	0.00	0.00
2,702.2	8.00	141.23	2,686.0	-195.6	157.1	-159.1	0.00	0.00	0.00
Bell Canyon									
2,800.0	8.00	141.23	2,782.8	-206.2	165.6	-167.7	0.00	0.00	0.00
2,900.0	8.00	141.23	2,881.8	-217.1	174.4	-176.5	0.00	0.00	0.00
3,000.0	8.00	141.23	2,980.9	-227.9	183.1	-185.3	0.00	0.00	0.00
3,100.0	8.00	141.23	3,079.9	-238.8	191.8	-194.2	0.00	0.00	0.00
3,200.0	8.00	141.23	3,178.9	-249.6	200.5	-203.0	0.00	0.00	0.00
3,300.0	8.00	141.23	3,277.9	-260.5	209.2	-211.8	0.00	0.00	0.00
3,400.0	8.00	141.23	3,377.0	-271.3	217.9	-220.6	0.00	0.00	0.00
3,500.0	8.00	141.23	3,476.0	-282.2	226.7	-229.5	0.00	0.00	0.00
3,600.0	8.00	141.23	3,575.0	-293.0	235.4	-238.3	0.00	0.00	0.00
3,646.4	8.00	141.23	3,621.0	-298.1	239.4	-242.4	0.00	0.00	0.00
Cherry Canyon									
3,700.0	8.00	141.23	3,674.0	-303.9	244.1	-247.1	0.00	0.00	0.00
3,800.0	8.00	141.23	3,773.1	-314.7	252.8	-255.9	0.00	0.00	0.00
3,867.2	8.00	141.23	3,839.6	-322.0	258.7	-261.9	0.00	0.00	0.00
Start Drop -1.50									
3,900.0	7.51	141.23	3,872.1	-325.5	261.4	-264.7	1.50	-1.50	0.00
4,000.0	6.01	141.23	3,971.4	-334.7	268.8	-272.1	1.50	-1.50	0.00
4,100.0	4.51	141.23	4,071.0	-341.8	274.5	-277.9	1.50	-1.50	0.00
4,200.0	3.01	141.23	4,170.8	-346.9	278.6	-282.1	1.50	-1.50	0.00



Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Bubba Burton #121H
Company:	Matador Production Company	TVD Reference:	KB @ 3005.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3005.5usft
Site:	RB - Section 15/14/13/18 - Slot #1	North Reference:	Grid
Well:	Bubba Burton #121H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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	1.51	141.23	4,270.7	-350.0	281.1	-284.6	1.50	-1.50	0.00
4,400.0	0.01	141.23	4,370.7	-351.0	281.9	-285.4	1.50	-1.50	0.00
4,400.6	0.00	0.00	4,371.3	-351.0	281.9	-285.4	1.50	-1.50	0.00
Start 3388.7 hold at 4400.6 MD									
4,500.0	0.00	0.00	4,470.7	-351.0	281.9	-285.4	0.00	0.00	0.00
4,600.0	0.00	0.00	4,570.7	-351.0	281.9	-285.4	0.00	0.00	0.00
4,700.0	0.00	0.00	4,670.7	-351.0	281.9	-285.4	0.00	0.00	0.00
4,747.3	0.00	0.00	4,718.0	-351.0	281.9	-285.4	0.00	0.00	0.00
Brushy Canyon									
4,800.0	0.00	0.00	4,770.7	-351.0	281.9	-285.4	0.00	0.00	0.00
4,900.0	0.00	0.00	4,870.7	-351.0	281.9	-285.4	0.00	0.00	0.00
5,000.0	0.00	0.00	4,970.7	-351.0	281.9	-285.4	0.00	0.00	0.00
5,100.0	0.00	0.00	5,070.7	-351.0	281.9	-285.4	0.00	0.00	0.00
5,200.0	0.00	0.00	5,170.7	-351.0	281.9	-285.4	0.00	0.00	0.00
5,300.0	0.00	0.00	5,270.7	-351.0	281.9	-285.4	0.00	0.00	0.00
5,400.0	0.00	0.00	5,370.7	-351.0	281.9	-285.4	0.00	0.00	0.00
5,500.0	0.00	0.00	5,470.7	-351.0	281.9	-285.4	0.00	0.00	0.00
5,600.0	0.00	0.00	5,570.7	-351.0	281.9	-285.4	0.00	0.00	0.00
5,700.0	0.00	0.00	5,670.7	-351.0	281.9	-285.4	0.00	0.00	0.00
5,800.0	0.00	0.00	5,770.7	-351.0	281.9	-285.4	0.00	0.00	0.00
5,900.0	0.00	0.00	5,870.7	-351.0	281.9	-285.4	0.00	0.00	0.00
6,000.0	0.00	0.00	5,970.7	-351.0	281.9	-285.4	0.00	0.00	0.00
6,100.0	0.00	0.00	6,070.7	-351.0	281.9	-285.4	0.00	0.00	0.00
6,200.0	0.00	0.00	6,170.7	-351.0	281.9	-285.4	0.00	0.00	0.00
6,300.0	0.00	0.00	6,270.7	-351.0	281.9	-285.4	0.00	0.00	0.00
6,375.3	0.00	0.00	6,346.0	-351.0	281.9	-285.4	0.00	0.00	0.00
Bone Spring Lime									
6,400.0	0.00	0.00	6,370.7	-351.0	281.9	-285.4	0.00	0.00	0.00
6,500.0	0.00	0.00	6,470.7	-351.0	281.9	-285.4	0.00	0.00	0.00
6,600.0	0.00	0.00	6,570.7	-351.0	281.9	-285.4	0.00	0.00	0.00
6,700.0	0.00	0.00	6,670.7	-351.0	281.9	-285.4	0.00	0.00	0.00
6,800.0	0.00	0.00	6,770.7	-351.0	281.9	-285.4	0.00	0.00	0.00
6,900.0	0.00	0.00	6,870.7	-351.0	281.9	-285.4	0.00	0.00	0.00
7,000.0	0.00	0.00	6,970.7	-351.0	281.9	-285.4	0.00	0.00	0.00
7,100.0	0.00	0.00	7,070.7	-351.0	281.9	-285.4	0.00	0.00	0.00
7,110.3	0.00	0.00	7,081.0	-351.0	281.9	-285.4	0.00	0.00	0.00
First Bone Spring Carbamate									
7,200.0	0.00	0.00	7,170.7	-351.0	281.9	-285.4	0.00	0.00	0.00
7,300.0	0.00	0.00	7,270.7	-351.0	281.9	-285.4	0.00	0.00	0.00
7,320.3	0.00	0.00	7,291.0	-351.0	281.9	-285.4	0.00	0.00	0.00
First Bone Spring Sand									
7,400.0	0.00	0.00	7,370.7	-351.0	281.9	-285.4	0.00	0.00	0.00
7,500.0	0.00	0.00	7,470.7	-351.0	281.9	-285.4	0.00	0.00	0.00
7,600.0	0.00	0.00	7,570.7	-351.0	281.9	-285.4	0.00	0.00	0.00
7,610.3	0.00	0.00	7,581.0	-351.0	281.9	-285.4	0.00	0.00	0.00
Second Bone Spring Carbonate									
7,700.0	0.00	0.00	7,670.7	-351.0	281.9	-285.4	0.00	0.00	0.00
7,789.3	0.00	0.00	7,760.0	-351.0	281.9	-285.4	0.00	0.00	0.00
Start Build 10.00 - VP - Bubba Burton #121H									
7,800.0	1.07	284.65	7,770.7	-351.0	281.8	-285.3	10.00	10.00	0.00
7,900.0	11.07	284.65	7,870.0	-348.3	271.6	-275.1	10.00	10.00	0.00
8,000.0	21.07	284.65	7,966.0	-341.3	244.9	-248.3	10.00	10.00	0.00
8,100.0	31.07	284.65	8,055.7	-330.2	202.4	-205.7	10.00	10.00	0.00



Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Bubba Burton #121H
Company:	Matador Production Company	TVD Reference:	KB @ 3005.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3005.5usft
Site:	RB - Section 15/14/13/18 - Slot #1	North Reference:	Grid
Well:	Bubba Burton #121H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
8,142.2	35.29	284.65	8,091.0	-324.4	180.1	-183.3	10.00	10.00	0.00
Second Bone Spring Sand									
8,200.0	41.07	284.65	8,136.4	-315.4	145.5	-148.7	10.00	10.00	0.00
8,300.0	51.07	284.65	8,205.7	-297.2	75.9	-78.9	10.00	10.00	0.00
8,400.0	61.07	284.65	8,261.5	-276.2	-4.2	1.5	10.00	10.00	0.00
8,500.0	71.07	284.65	8,302.0	-253.1	-92.5	90.0	10.00	10.00	0.00
8,537.6	74.83	284.65	8,313.0	-244.0	-127.4	124.9	10.00	10.00	0.00
SBSG B Target									
8,600.0	81.07	284.65	8,326.0	-228.6	-186.3	184.0	10.00	10.00	0.00
8,689.3	90.00	284.65	8,333.0	-206.1	-272.4	270.3	10.00	10.00	0.00
Start DLS 2.00 TFO -90.00									
8,700.0	90.00	284.44	8,333.0	-203.4	-282.7	280.7	2.00	0.00	-2.00
8,800.0	90.00	282.44	8,333.0	-180.2	-380.0	378.2	2.00	0.00	-2.00
8,900.0	90.00	280.44	8,333.0	-160.4	-478.0	476.4	2.00	0.00	-2.00
9,000.0	90.00	278.44	8,333.0	-144.0	-576.6	575.2	2.00	0.00	-2.00
9,100.0	90.00	276.44	8,333.0	-131.0	-675.8	674.5	2.00	0.00	-2.00
9,200.0	90.00	274.44	8,333.0	-121.5	-775.3	774.1	2.00	0.00	-2.00
9,300.0	90.00	272.44	8,333.0	-115.6	-875.2	874.0	2.00	0.00	-2.00
9,393.3	90.00	270.57	8,333.0	-113.1	-968.4	967.3	2.00	0.00	-2.00
Start 9348.9 hold at 9393.3 MD									
9,400.0	90.00	270.57	8,333.0	-113.0	-975.1	973.9	0.00	0.00	0.00
9,500.0	90.00	270.57	8,333.0	-112.0	-1,075.1	1,073.9	0.00	0.00	0.00
9,600.0	90.00	270.57	8,333.0	-111.1	-1,175.1	1,173.9	0.00	0.00	0.00
9,700.0	90.00	270.57	8,333.0	-110.1	-1,275.1	1,273.9	0.00	0.00	0.00
9,800.0	90.00	270.57	8,333.0	-109.1	-1,375.1	1,373.9	0.00	0.00	0.00
9,900.0	90.00	270.57	8,333.0	-108.1	-1,475.1	1,473.9	0.00	0.00	0.00
10,000.0	90.00	270.57	8,333.0	-107.1	-1,575.1	1,573.9	0.00	0.00	0.00
10,100.0	90.00	270.57	8,333.0	-106.1	-1,675.1	1,673.9	0.00	0.00	0.00
10,200.0	90.00	270.57	8,333.0	-105.1	-1,775.1	1,773.9	0.00	0.00	0.00
10,300.0	90.00	270.57	8,333.0	-104.1	-1,875.1	1,873.9	0.00	0.00	0.00
10,400.0	90.00	270.57	8,333.0	-103.1	-1,975.1	1,973.9	0.00	0.00	0.00
10,500.0	90.00	270.57	8,333.0	-102.1	-2,075.1	2,073.9	0.00	0.00	0.00
10,600.0	90.00	270.57	8,333.0	-101.1	-2,175.1	2,173.9	0.00	0.00	0.00
10,700.0	90.00	270.57	8,333.0	-100.1	-2,275.1	2,273.9	0.00	0.00	0.00
10,800.0	90.00	270.57	8,333.0	-99.1	-2,375.1	2,373.9	0.00	0.00	0.00
10,900.0	90.00	270.57	8,333.0	-98.1	-2,475.0	2,473.9	0.00	0.00	0.00
11,000.0	90.00	270.57	8,333.0	-97.1	-2,575.0	2,573.9	0.00	0.00	0.00
11,100.0	90.00	270.57	8,333.0	-96.1	-2,675.0	2,673.9	0.00	0.00	0.00
11,200.0	90.00	270.57	8,333.0	-95.1	-2,775.0	2,773.9	0.00	0.00	0.00
11,300.0	90.00	270.57	8,333.0	-94.1	-2,875.0	2,873.9	0.00	0.00	0.00
11,400.0	90.00	270.57	8,333.0	-93.2	-2,975.0	2,973.9	0.00	0.00	0.00
11,500.0	90.00	270.57	8,333.0	-92.2	-3,075.0	3,073.9	0.00	0.00	0.00
11,600.0	90.00	270.57	8,333.0	-91.2	-3,175.0	3,173.9	0.00	0.00	0.00
11,700.0	90.00	270.57	8,333.0	-90.2	-3,275.0	3,273.9	0.00	0.00	0.00
11,800.0	90.00	270.57	8,333.0	-89.2	-3,375.0	3,373.9	0.00	0.00	0.00
11,900.0	90.00	270.57	8,333.0	-88.2	-3,475.0	3,473.9	0.00	0.00	0.00
12,000.0	90.00	270.57	8,333.0	-87.2	-3,575.0	3,573.9	0.00	0.00	0.00
12,100.0	90.00	270.57	8,333.0	-86.2	-3,675.0	3,673.9	0.00	0.00	0.00
12,200.0	90.00	270.57	8,333.0	-85.2	-3,775.0	3,773.9	0.00	0.00	0.00
12,300.0	90.00	270.57	8,333.0	-84.2	-3,875.0	3,873.9	0.00	0.00	0.00
12,400.0	90.00	270.57	8,333.0	-83.2	-3,975.0	3,973.9	0.00	0.00	0.00
12,500.0	90.00	270.57	8,333.0	-82.2	-4,075.0	4,073.9	0.00	0.00	0.00
12,600.0	90.00	270.57	8,333.0	-81.2	-4,175.0	4,173.9	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Bubba Burton #121H
Company:	Matador Production Company	TVD Reference:	KB @ 3005.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3005.5usft
Site:	RB - Section 15/14/13/18 - Slot #1	North Reference:	Grid
Well:	Bubba Burton #121H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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	270.57	8,333.0	-80.2	-4,275.0	4,273.9	0.00	0.00	0.00
12,800.0	90.00	270.57	8,333.0	-79.2	-4,375.0	4,373.9	0.00	0.00	0.00
12,900.0	90.00	270.57	8,333.0	-78.2	-4,474.9	4,473.9	0.00	0.00	0.00
13,000.0	90.00	270.57	8,333.0	-77.2	-4,574.9	4,573.9	0.00	0.00	0.00
13,100.0	90.00	270.57	8,333.0	-76.2	-4,674.9	4,673.9	0.00	0.00	0.00
13,200.0	90.00	270.57	8,333.0	-75.3	-4,774.9	4,773.9	0.00	0.00	0.00
13,300.0	90.00	270.57	8,333.0	-74.3	-4,874.9	4,873.9	0.00	0.00	0.00
13,400.0	90.00	270.57	8,333.0	-73.3	-4,974.9	4,973.9	0.00	0.00	0.00
13,500.0	90.00	270.57	8,333.0	-72.3	-5,074.9	5,073.9	0.00	0.00	0.00
13,600.0	90.00	270.57	8,333.0	-71.3	-5,174.9	5,173.9	0.00	0.00	0.00
13,700.0	90.00	270.57	8,333.0	-70.3	-5,274.9	5,273.9	0.00	0.00	0.00
13,800.0	90.00	270.57	8,333.0	-69.3	-5,374.9	5,373.9	0.00	0.00	0.00
13,900.0	90.00	270.57	8,333.0	-68.3	-5,474.9	5,473.9	0.00	0.00	0.00
14,000.0	90.00	270.57	8,333.0	-67.3	-5,574.9	5,573.9	0.00	0.00	0.00
14,100.0	90.00	270.57	8,333.0	-66.3	-5,674.9	5,673.9	0.00	0.00	0.00
14,200.0	90.00	270.57	8,333.0	-65.3	-5,774.9	5,773.9	0.00	0.00	0.00
14,300.0	90.00	270.57	8,333.0	-64.3	-5,874.9	5,873.9	0.00	0.00	0.00
14,400.0	90.00	270.57	8,333.0	-63.3	-5,974.9	5,973.9	0.00	0.00	0.00
14,500.0	90.00	270.57	8,333.0	-62.3	-6,074.9	6,073.9	0.00	0.00	0.00
14,600.0	90.00	270.57	8,333.0	-61.3	-6,174.9	6,173.9	0.00	0.00	0.00
14,700.0	90.00	270.57	8,333.0	-60.3	-6,274.9	6,273.9	0.00	0.00	0.00
14,800.0	90.00	270.57	8,333.0	-59.3	-6,374.9	6,373.9	0.00	0.00	0.00
14,900.0	90.00	270.57	8,333.0	-58.3	-6,474.8	6,473.9	0.00	0.00	0.00
15,000.0	90.00	270.57	8,333.0	-57.4	-6,574.8	6,573.9	0.00	0.00	0.00
15,100.0	90.00	270.57	8,333.0	-56.4	-6,674.8	6,673.9	0.00	0.00	0.00
15,200.0	90.00	270.57	8,333.0	-55.4	-6,774.8	6,773.9	0.00	0.00	0.00
15,300.0	90.00	270.57	8,333.0	-54.4	-6,874.8	6,873.9	0.00	0.00	0.00
15,400.0	90.00	270.57	8,333.0	-53.4	-6,974.8	6,973.9	0.00	0.00	0.00
15,500.0	90.00	270.57	8,333.0	-52.4	-7,074.8	7,073.9	0.00	0.00	0.00
15,600.0	90.00	270.57	8,333.0	-51.4	-7,174.8	7,173.9	0.00	0.00	0.00
15,700.0	90.00	270.57	8,333.0	-50.4	-7,274.8	7,273.9	0.00	0.00	0.00
15,800.0	90.00	270.57	8,333.0	-49.4	-7,374.8	7,373.9	0.00	0.00	0.00
15,900.0	90.00	270.57	8,333.0	-48.4	-7,474.8	7,473.9	0.00	0.00	0.00
16,000.0	90.00	270.57	8,333.0	-47.4	-7,574.8	7,573.9	0.00	0.00	0.00
16,100.0	90.00	270.57	8,333.0	-46.4	-7,674.8	7,673.9	0.00	0.00	0.00
16,200.0	90.00	270.57	8,333.0	-45.4	-7,774.8	7,773.9	0.00	0.00	0.00
16,300.0	90.00	270.57	8,333.0	-44.4	-7,874.8	7,873.9	0.00	0.00	0.00
16,400.0	90.00	270.57	8,333.0	-43.4	-7,974.8	7,973.9	0.00	0.00	0.00
16,500.0	90.00	270.57	8,333.0	-42.4	-8,074.8	8,073.9	0.00	0.00	0.00
16,600.0	90.00	270.57	8,333.0	-41.4	-8,174.8	8,173.9	0.00	0.00	0.00
16,700.0	90.00	270.57	8,333.0	-40.4	-8,274.8	8,273.9	0.00	0.00	0.00
16,800.0	90.00	270.57	8,333.0	-39.5	-8,374.8	8,373.9	0.00	0.00	0.00
16,900.0	90.00	270.57	8,333.0	-38.5	-8,474.8	8,473.9	0.00	0.00	0.00
17,000.0	90.00	270.57	8,333.0	-37.5	-8,574.7	8,573.9	0.00	0.00	0.00
17,100.0	90.00	270.57	8,333.0	-36.5	-8,674.7	8,673.9	0.00	0.00	0.00
17,200.0	90.00	270.57	8,333.0	-35.5	-8,774.7	8,773.9	0.00	0.00	0.00
17,300.0	90.00	270.57	8,333.0	-34.5	-8,874.7	8,873.9	0.00	0.00	0.00
17,400.0	90.00	270.57	8,333.0	-33.5	-8,974.7	8,973.9	0.00	0.00	0.00
17,500.0	90.00	270.57	8,333.0	-32.5	-9,074.7	9,073.9	0.00	0.00	0.00
17,600.0	90.00	270.57	8,333.0	-31.5	-9,174.7	9,173.9	0.00	0.00	0.00
17,700.0	90.00	270.57	8,333.0	-30.5	-9,274.7	9,273.9	0.00	0.00	0.00
17,800.0	90.00	270.57	8,333.0	-29.5	-9,374.7	9,373.9	0.00	0.00	0.00
17,900.0	90.00	270.57	8,333.0	-28.5	-9,474.7	9,473.9	0.00	0.00	0.00
18,000.0	90.00	270.57	8,333.0	-27.5	-9,574.7	9,573.9	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Bubba Burton #121H
Company:	Matador Production Company	TVD Reference:	KB @ 3005.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3005.5usft
Site:	RB - Section 15/14/13/18 - Slot #1	North Reference:	Grid
Well:	Bubba Burton #121H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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	270.57	8,333.0	-26.5	-9,674.7	9,673.9	0.00	0.00	0.00
18,200.0	90.00	270.57	8,333.0	-25.5	-9,774.7	9,773.9	0.00	0.00	0.00
18,300.0	90.00	270.57	8,333.0	-24.5	-9,874.7	9,873.9	0.00	0.00	0.00
18,400.0	90.00	270.57	8,333.0	-23.5	-9,974.7	9,973.9	0.00	0.00	0.00
18,500.0	90.00	270.57	8,333.0	-22.6	-10,074.7	10,073.9	0.00	0.00	0.00
18,600.0	90.00	270.57	8,333.0	-21.6	-10,174.7	10,173.9	0.00	0.00	0.00
18,700.0	90.00	270.57	8,333.0	-20.6	-10,274.7	10,273.9	0.00	0.00	0.00
18,742.2	90.00	270.57	8,333.0	-20.1	-10,316.8	10,316.1	0.00	0.00	0.00
TD at 18742.2 - BHL - Bubba Burton #121H									

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 - Bubba Burton #121 - plan hits target center - Point	0.00	0.00	7,760.0	-351.0	281.9	444,766.00	587,889.00	32° 13' 20.854 N	104° 2' 56.860 W
BHL - Bubba Burton #12 - plan hits target center - Point	0.00	0.00	8,333.0	-20.1	-10,316.8	445,096.84	577,289.83	32° 13' 24.388 N	104° 5' 0.238 W

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,651.8	2,636.0	Lamar				
2,702.2	2,686.0	Bell Canyon				
3,646.4	3,621.0	Cherry Canyon				
4,747.3	4,718.0	Brushy Canyon				
6,375.3	6,346.0	Bone Spring Lime				
7,110.3	7,081.0	First Bone Spring Carbobate				
7,320.3	7,291.0	First Bone Spring Sand				
7,610.3	7,581.0	Second Bone Spring Carbonate				
8,142.2	8,091.0	Second Bone Spring Sand				
8,537.6	8,313.0	SBSG B Target				

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
500.0	500.0	0.0	0.0	Start Build 1.00
1,300.0	1,297.4	-43.5	34.9	Start 2567.2 hold at 1300.0 MD
3,867.2	3,839.6	-322.0	258.7	Start Drop -1.50
4,400.6	4,371.3	-351.0	281.9	Start 3388.7 hold at 4400.6 MD
7,789.3	7,760.0	-351.0	281.9	Start Build 10.00
8,689.3	8,333.0	-206.1	-272.4	Start DLS 2.00 TFO -90.00
9,393.3	8,333.0	-113.1	-968.4	Start 9348.9 hold at 9393.3 MD
18,742.2	8,333.0	-20.1	-10,316.8	TD at 18742.2