<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II

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

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

District IV

Depth to Ground water

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 307089

2/15/2022

Distance to nearest surface water

		APPLIC	ATION FOR PE	RMIT TO I	ORILL, RE	-ENTER, DEE	PEN, PLUGBA	CK, OR A	DD A ZOI	NE			
M.	Name and Address ATADOR PRODUCT	ION COMPAN	·						2. OGF	RID Number 228937			
_	ne Lincoln Centre allas, TX 75240								3. API	Number 30-015-4	9207		
4. Property C	Code 26434		5. Property Name RAY STA	ATE COM					6. Well	l No. 114H			
					7. Sui	face Location							
UL - Lot	Section	Township	Range	Lo	ot Idn	Feet From	N/S Line	Feet From	n	E/W Line		County	
Α	1	24	S 2			372	Е			Eddy			
				8.	. Proposed I	Bottom Hole Loc	ation						
UL - Lot	Section	Township	Range	L	ot Idn	Feet From	N/S Line	Feet Fro	om	E/W Line		County	
Α	25	2:	3S	28E	Α	100	N		330	E	:		Eddy
					9. Po	ol Information							
CULEBRA	BLUFF;BONE SPRI	NG, SOUTH									1501	1	
					Additiona	I Well Informatio	n						
11. Work Type	е	12. Well Typ	е	13. Cable/F	Rotary		14. Lease Type		15. Ground	Level Elevatio	n		
Ne	ew Well	0	IL				Private		2	968			
16. Multiple		17. Proposed	d Depth	18. Formati	ion		19. Contractor		20. Spud Da	ate			•

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

18254

21. Proposed Casing and Cement Program

Bone Spring

Distance from nearest fresh water well

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	325	300	0
Int1	12.25	9.625	40	2750	755	0
Prod	8.75	5.5	20	18254	2600	2550

Casing/Cement Program: Additional Comments

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

knowledge and be	lief.	true and complete to the best of my		OIL CONSERVATIO	ON DIVISION	
Signature:						
Printed Name:	Electronically filed by Brett A Jeni	nings	Approved By:	Katherine Pickford		
Title:	Regulatory Analyst		Title:	Geoscientist		
Email Address:	Email Address: brett.jennings@matadorresources.com		Approved Date:	1/27/2022	Expiration Date: 1/27/2024	
Date:	1/25/2022	Phone: 972-629-2160	Conditions of Appro	oval Attached	_	

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 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 1220 S. St. Francis Dr., Santa Fe, NM 87505

Phone: (505) 476-3460 Fax: (505) 476-3462

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

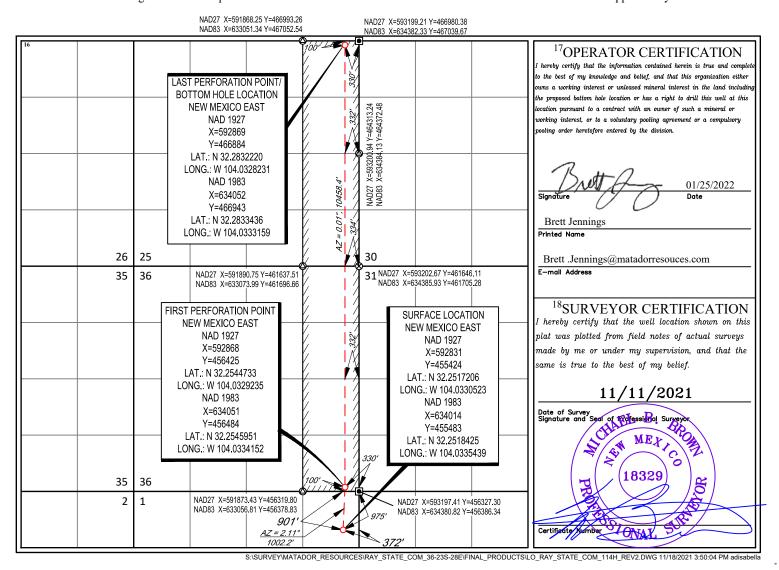
WELL LOCATION AND ACREAGE DEDICATION PLAT

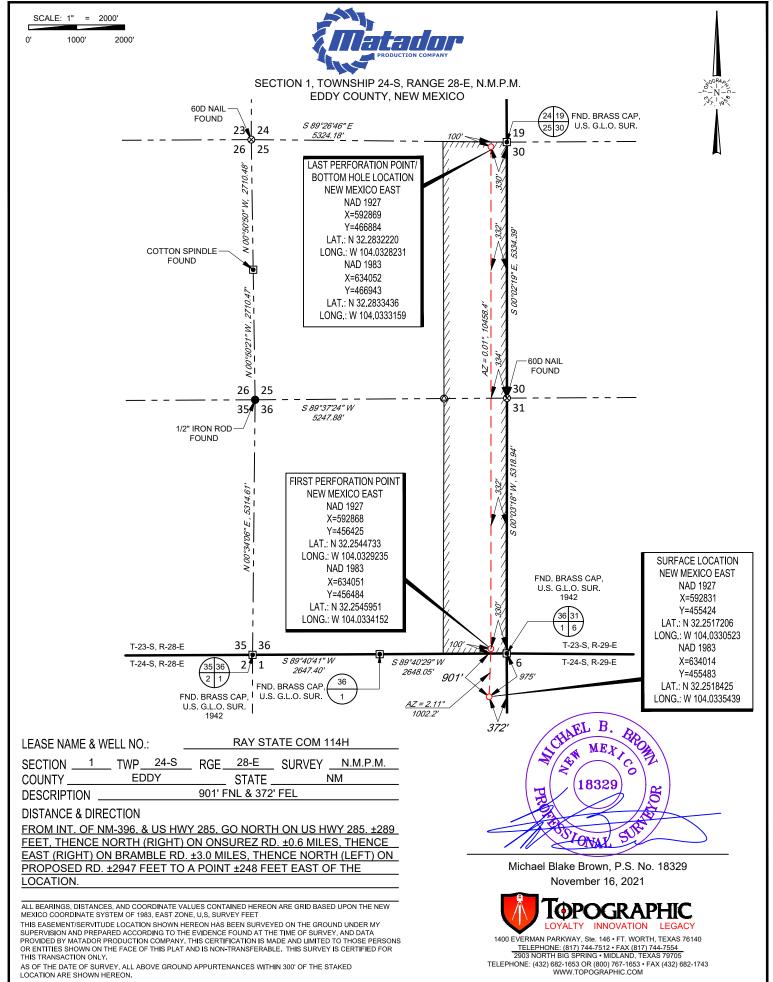
¹ API Number		² Pool Code ³ Pool Name					
30-015-49207		15011					
⁴ Property Code		⁵ Pr	⁶ Well Number				
326434		RAY S	STATE COM	114H			
⁷ OGRID No.		⁸ O _I	perator Name	⁹ Elevation			
228937		MATADOR PRO	DUCTION COMPANY	2968'			
	10 Surface Location						

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
1	1	24-S	28-E	1	901'	NORTH	372'	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	
A	25	23-S	28-E	-	100'	NORTH	330'	EAST	EDDY	
¹² Dedicated Acres	¹³ Joint or l	Infill 14Co	nsolidation Co	de ¹⁵ Ord	er 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.



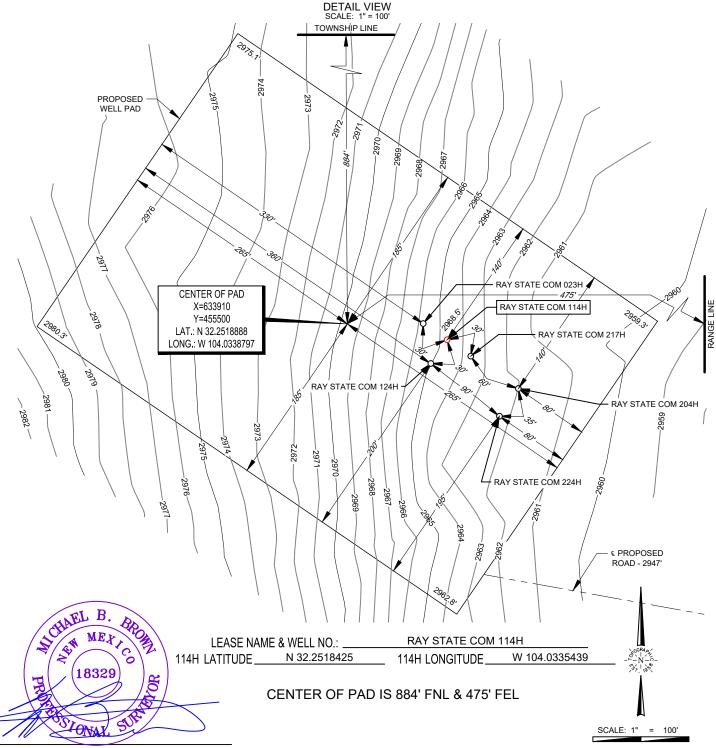


LEGEND

TOWNSHIP/RANGE LINE
PROPOSED ROAD



SECTION 1, TOWNSHIP 24-S, RANGE 28-E, N.M.P.M. EDDY COUNTY, NEW MEXICO



Michael Blake Brown, P.S. No. 18329

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"



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

Form APD Conditions

Permit 307089

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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**

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
MATADOR PRODUCTION COMPANY [228937]	30-015-49207
One Lincoln Centre	Well:
Dallas, TX 75240	RAY STATE COM #114H

	<u> </u>
OCD Reviewer	Condition
kpickford	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
kpickford	Notify OCD 24 hours prior to casing & cement
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
	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	Cement is required to circulate on both surface and intermediate1 strings of casing
	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

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: Matado	r Production (Company	OGRID: <u>22</u>	8937		Date:_	11	/23/2021
II. Type: ⊠Original [☐ Amendment	due to ☐ 19.15.27.9.	.D(6)(a) NMAC	C □ 19.15.27.9.D(6)(b) N	MAC 🗆 O	ther.	
If Other, please descri	be:							
III. Well(s): Provide to recompleted from a single					wells pr	oposed to	be drill	ed or proposed to be
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		icipated MCF/D		Anticipated Produced Water BBL/D
Ray State Com 023H	TBD	UL-A Sec 1 T23S R28F	884° FNL 396° FEL	481	1,363		3,201	
Ray State Com 114H	TBD	UL-A Sec 1 T23S R28E		1,350	6,443		4,005	
		1.	P. F. L.	I in				
V. Anticipated Sched proposed to be recomp	lule: Provide the oleted from a s	ne following informatingle well pad or con	tion for each nev	ral delivery point.		et of wells	s propos	
Well Name	API	Spud Date	TD Reached Date	Completio Commencemen		Initial I Back I		First Production Date
Ray State Com 023H	TBD	02/19/2022	02/18/2022	04/15/2022		07/02/2022		07/02/2022
Ray State Com 114H	TBD		03/08/2022	04/15/2022		07/05/2022		07/05/2022
VI. Separation Equip VII. Operational Pra Subsection A through VIII. Best Managem during active and plan	nctices: Att F of 19.15.27. ent Practices:	ach a complete descri 8 NMAC.	iption of the act	ions Operator will	take to	comply w	rith the	requirements of

Section 2 — Enhanced Plan EFFECTIVE APRIL 1, 2022

	2022, an operator that complete this section		ith its statewide natural gas c	capture requirement for the applicable
	es that it is not requir for the applicable re		on because Operator is in con	mpliance with its statewide natural gas
IX. Anticipated Na	tural Gas Producti	on:		
W	ell	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF
X. Natural Gas Ga	thering System (NO	GGS):		
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in
production operation the segment or porticular the segment or porticular the segment or porticular the segment or porticular the segment of t	ns to the existing or join on of the natural gas gas. The natural gas gas from the well prior to e. Operator \(\square \) does [g system(s) described so plan to manage proty: \(\square \) Operator assed in Paragraph (2) o	planned interconnect of the gathering system(s) to we thering system will to the date of first product does not anticipate that d above will continue to be duction in response to the date confidentiality pursu	the natural gas gathering system which the well(s) will be come will not have capacity to go tion. The its existing well(s) connects meet anticipated increases in the increased line pressure. The increased line pressure. The increased line pressure. The increased line pressure.	atticipated pipeline route(s) connecting the em(s), and the maximum daily capacity of nected. Sather 100% of the anticipated natural gas ed to the same segment, or portion, of the line pressure caused by the new well(s). SA 1978 for the information provided in full description of the specific information

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

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

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

Section 4 - Notices

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

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

Signature: San Henry			
Printed Name: Ben Peterson			
Title: Staff Production Engineer			
E-mail Address: bpeterson@matadorresources.com			
Date: 11/23/2021		-	
Phone: (972) 371-5427			
	OIL CONSERVATIO	N DIVISION	
(Only	applicable when submitte	d as a standalone form)	
Approved By:		96	
Title:			
Approval Date:			
Approval Date: Conditions of Approval:			

Addendum to Natural Gas Management Plan for Matador's

Ray State Com 023H and 114H

VI. Separation Equipment

Flow from the wells will be routed via a flowline to a 48"x15" three phase separator dedicated to the well. The first stage separators are sized with input from BRE ProMax and API 12J. Expected production from the 023H well is approximately 1,363 mcfd, 481 bopd, and 3,201 bwpd per well. Expected production from the 114H is approximately 6,443 mcfd, 1,350 bopd and 4,005 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

Rustler Breaks Ray State Ray State Com #114H

Wellbore #1

Plan: State Plan #1

Standard Planning Report

06 December, 2021

Database: Company: EDM 5000.14 Server

Matador Production Company

Project: Site:

Rustler Breaks

Wellbore #1

State Plan #1

Well: Ray State Com #114H

Wellbore: Design:

Ray State

MD Reference: North Reference: **Survey Calculation Method:**

TVD Reference:

Local Co-ordinate Reference:

Well Ray State Com#114H

KB @ 2997.5usft KB @ 2997.5usft

Grid

Minimum Curvature

Project Rustler Breaks,

Map System: Geo Datum: Map Zone:

US State Plane 1927 (Exact solution)

New Mexico East 3001

NAD 1927 (NADCON CONUS)

System Datum:

Mean Sea Level

Using geodetic scale factor

Site Ray State

Site Position: From: **Position Uncertainty:**

None 0.0 usft Northing: Easting: **Slot Radius:** 455,399.00 usft 592,814.00 usft 13-3/16 "

Latitude: Longitude: **Grid Convergence:**

32° 15' 5.948 N 104° 1' 59.181 W 0.16°

Well Ray State Com #114H

25.0 usft

17.0 usft

Northing:

Easting:

455,424.00 usft

Latitude: Longitude:

32° 15' 6.195 N 104° 1' 58.983 W

Position Uncertainty

Well Position

0.0 usft Wellhead Elevation: 592,831.00 usft

Ground Level:

2,969.0 usft

Wellbore #1 Wellbore

+N/-S

+E/-W

Declination **Magnetics Model Name** Sample Date **Dip Angle** Field Strength (°) (°) (nT) 59.96 47.451.08347489 IGRF2015 12/4/2021 6.69

Design

State Plan #1

Audit Notes:

Version:

Phase: Depth From (TVD) **PROTOTYPE**

Tie On Depth:

0.0

Vertical Section:

(usft)

0.0

+N/-S (usft) 0.0

+E/-W (usft) 0.0

Direction (°) 0.19

Plan Survey Tool Program

Depth From Depth To

(usft)

Survey (Wellbore)

Date 12/6/2021

Tool Name

Remarks

(usft) 0.0 1

18,254.2 State Plan #1 (Wellbore #1)

MWD

OWSG MWD - Standard

Plan Section	S									
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	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,600.0	8.00	358.26	1,598.7	27.9	-0.8	2.00	2.00	0.00	358.26	
4,276.4	8.00	358.26	4,249.0	400.2	-12.2	0.00	0.00	0.00	0.00	
4,676.4	0.00	0.00	4,647.7	428.0	-13.0	2.00	-2.00	0.00	180.00	
6,895.1	0.00	0.00	6,866.5	428.0	-13.0	0.00	0.00	0.00	0.00 \	P - Ray State Co
7,795.1	90.00	1.90	7,439.5	1,000.7	6.0	10.00	10.00	0.00	1.90	
7,881.7	90.00	0.17	7,439.5	1,087.3	7.6	2.00	0.00	-2.00	-90.01	
18,254.4	90.00	0.17	7,439.5	11,459.9	38.0	0.00	0.00	0.00	0.00 E	BHL - Ray State Co

Database: EDM 5000.14 Server
Company: Matador Production Company

Project: Rustler Breaks
Site: Ray State

Well: Ray State Com #114H

Wellbore: Wellbore #1
Design: State Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Ray State Com#114H

KB @ 2997.5usft KB @ 2997.5usft

Grid

nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
68.4	0.00	0.00	68.4	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
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
634.2	0.00	0.00	634.2	0.0	0.0	0.0	0.00	0.00	0.00
Salado (To		0.00	034.2	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
1,198.6	0.00	0.00	1,198.6	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
Start Build			1,20010						
1,300.0	2.00	358.26	1,300.0	1.7	-0.1	1.7	2.00	2.00	0.00
1,400.0	4.00	358.26	1,399.8	7.0	-0.2	7.0	2.00	2.00	0.00
1,500.0	6.00	358.26	1,499.5	15.7	-0.5	15.7	2.00	2.00	0.00
1,600.0	8.00	358.26	1,598.7	27.9	-0.8	27.9	2.00	2.00	0.00
	.4 hold at 1600	.0 MD							
1,700.0	8.00	358.26	1,697.7	41.8	-1.3	41.8	0.00	0.00	0.00
1,800.0	8.00	358.26	1,796.8	55.7	-1.7	55.7	0.00	0.00	0.00
1,900.0	8.00	358.26	1,895.8	69.6	-2.1	69.6	0.00	0.00	0.00
2,000.0	8.00	358.26	1,994.8	83.5	-2.5	83.5	0.00	0.00	0.00
2,100.0	8.00	358.26	2,093.8	97.4	-3.0	97.4	0.00	0.00	0.00
2,200.0	8.00	358.26	2,192.9	111.3	-3.4	111.3	0.00	0.00	0.00
2,300.0	8.00	358.26	2,291.9	125.2	-3.8	125.2	0.00	0.00	0.00
2,400.0	8.00	358.26	2,390.9	139.2	-4.2	139.1	0.00	0.00	0.00
2,500.0	8.00	358.26	2,489.9	153.1	-4.6	153.0	0.00	0.00	0.00
2,600.0	8.00	358.26	2,589.0	167.0	-5.1	167.0	0.00	0.00	0.00
2,700.0	8.00	358.26	2,688.0	180.9	-5.5	180.9	0.00	0.00	0.00
2,735.2	8.00	358.26	2,722.9	185.8	-5.6	185.8	0.00	0.00	0.00
BASE SAL		050.00	0.707.0	400.4	= 0	400.4	0.00	2.22	2.22
2,780.7 Bell Cyn (8.00 T. Delaware)	358.26	2,767.9	192.1	-5.8	192.1	0.00	0.00	0.00
2,800.0	8.00	358.26	2,787.0	194.8	-5.9	194.8	0.00	0.00	0.00
2,900.0	8.00	358.26	2,886.1	208.7	-6.3	208.7	0.00	0.00	0.00
3,000.0	8.00	358.26	2,985.1	222.6	-6.8	222.6	0.00	0.00	0.00
3,100.0	8.00	358.26	3,084.1	236.5	-7.2	236.5	0.00	0.00	0.00
3,200.0	8.00	358.26	3,183.1	250.4	-7.6	250.4	0.00	0.00	0.00
3,300.0	8.00	358.26	3,282.2	264.4	-8.0	264.3	0.00	0.00	0.00
3,400.0	8.00	358.26	3,381.2	278.3	-8.5	278.2	0.00	0.00	0.00
3,500.0	8.00	358.26	3,480.2	292.2	-8.9	292.1	0.00	0.00	0.00
3,600.0	8.00	358.26	3,579.2	306.1	-9.3	306.1	0.00	0.00	0.00
3,684.1	8.00	358.26	3,662.5	317.8	-9.7	317.8	0.00	0.00	0.00
3,700.0	8.00	358.26	3,678.3	320.0	-9.7	320.0	0.00	0.00	0.00
3,800.0	8.00	358.26	3,777.3	333.9	-10.1	333.9	0.00	0.00	0.00

Database: EDM 5000.14 Server

Company: Matador Production Company **Project:** Rustler Breaks

Site: Ray State

Well: Ray State Com #114H

Wellbore: Wellbore #1
Design: State Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Ray State Com#114H

KB @ 2997.5usft KB @ 2997.5usft

Grid

ned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,900.0 4,000.0 4,100.0 4,200.0 4,276.4	8.00 8.00 8.00 8.00 8.00	358.26 358.26 358.26 358.26 358.26	3,876.3 3,975.3 4,074.4 4,173.4 4,249.0	347.8 361.7 375.6 389.6 400.2	-10.6 -11.0 -11.4 -11.8 -12.2	347.8 361.7 375.6 389.5 400.1	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
Start Drop		000.20	.,	.00.2			0.00	0.00	0.00
4,300.0 4,400.0 4,500.0 4,600.0 4,676.4	7.53 5.53 3.53 1.53 0.00	358.26 358.26 358.26 358.26 0.00	4,272.4 4,371.8 4,471.5 4,571.4 4,647.7	403.4 414.7 422.6 427.0 428.0	-12.3 -12.6 -12.8 -13.0 -13.0	403.3 414.7 422.6 427.0 428.0	2.00 2.00 2.00 2.00 2.00	-2.00 -2.00 -2.00 -2.00 -2.00	0.00 0.00 0.00 0.00 0.00
Start 2218.	8 hold at 4676	6.4 MD							
4,700.0 4,800.0 4,853.0	0.00 0.00 0.00	0.00 0.00 0.00	4,671.4 4,771.4 4,824.3	428.0 428.0 428.0	-13.0 -13.0 -13.0	428.0 428.0 428.0	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Brushy Ca 4,900.0	nyon 0.00	0.00	4,871.4	428.0	-13.0	428.0	0.00	0.00	0.00
5,000.0	0.00	0.00	4,971.4	428.0	-13.0	428.0	0.00	0.00	0.00
5,100.0 5,200.0 5,300.0 5,400.0 5,500.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	5,071.4 5,171.4 5,271.4 5,371.4 5,471.4	428.0 428.0 428.0 428.0 428.0	-13.0 -13.0 -13.0 -13.0 -13.0	428.0 428.0 428.0 428.0 428.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
5,510.0	0.00	0.00	5,481.4	428.0	-13.0	428.0	0.00	0.00	0.00
M. Brushy		0.00	0,401.4	420.0	10.0	720.0	0.00	0.00	0.00
5,600.0 5,700.0 5,800.0 5,900.0	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5,571.4 5,671.4 5,771.4 5,871.4	428.0 428.0 428.0 428.0	-13.0 -13.0 -13.0 -13.0	428.0 428.0 428.0 428.0	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
6,000.0 6,100.0 6,147.5 L. Brushy	0.00 0.00 0.00	0.00 0.00 0.00	5,971.4 6,071.4 6,118.9	428.0 428.0 428.0	-13.0 -13.0 -13.0	428.0 428.0 428.0	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
6,200.0 6,300.0	0.00 0.00	0.00 0.00	6,171.4 6,271.4	428.0 428.0	-13.0 -13.0	428.0 428.0	0.00 0.00	0.00 0.00	0.00 0.00
6,400.0 6,466.1	0.00 0.00	0.00 0.00	6,371.4 6,437.5	428.0 428.0	-13.0 -13.0	428.0 428.0	0.00 0.00	0.00 0.00	0.00 0.00
Pipeline 6,482.6	0.00	0.00	6 452 0	420.0	12.0	400.0	0.00		0.00
Bone Sprir	0.00 na Lime	0.00	6,453.9	428.0	-13.0	428.0	0.00	0.00	0.00
6,500.0 6,600.0	0.00 0.00	0.00 0.00	6,471.4 6,571.4	428.0 428.0	-13.0 -13.0	428.0 428.0	0.00 0.00	0.00 0.00	0.00 0.00
6,700.0 6,800.0 6,895.1	0.00 0.00 0.00	0.00 0.00 0.00	6,671.4 6,771.4 6,866.5	428.0 428.0 428.0	-13.0 -13.0 -13.0	428.0 428.0 428.0	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	10.00 - VP - R			400.4	40.0	400.0	40.00	40.00	0.00
6,900.0 7,000.0	0.49 10.49	1.90 1.90	6,871.4 6,970.8	428.1 437.6	-13.0 -12.7	428.0 437.6	10.00 10.00	10.00 10.00	0.00 0.00
7,100.0 7,200.0 7,261.4	20.49 30.49 36.62	1.90 1.90 1.90	7,067.0 7,157.2 7,208.3	464.3 507.2 541.1	-11.8 -10.4 -9.3	464.2 507.2 541.1	10.00 10.00 10.00	10.00 10.00 10.00	0.00 0.00 0.00
FBSC 7,300.0	40.49	1.90	7,238.5	565.2	-8.5	565.1	10.00	10.00	0.00

Database: EDM 5000.14 Server

Company: Matador Production Company
Project: Rustler Breaks

Project: Rustler Breaks
Site: Ray State

Well: Ray State Com #114H

Wellbore: Wellbore #1
Design: State Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Ray State Com#114H

KB @ 2997.5usft KB @ 2997.5usft

Grid

jii.	Otate I lall #	•							
ned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,400.0	50.49	1.90	7,308.5	636.3	-6.1	636.3	10.00	10.00	0.00
7,500.0	60.49	1.90	7,365.1	718.6	-3.4	718.6	10.00	10.00	0.00
7,600.0	70.49	1.90	7,406.5	809.4	-0.4	809.4	10.00	10.00	0.00
7,643.4	74.83	1.90	7,419.5	850.8	1.0	850.8	10.00	10.00	0.00
FBSG 7,700.0 7,795.1	80.49	1.90	7,431.6	906.0	2.9	906.0	10.00	10.00	0.00
	90.00	1.90	7,439.5	1,000.7	6.0	1,000.7	10.00	10.00	0.00
	2.00 TFO -90.0								
7,800.0	90.00	1.80	7,439.5	1,005.5	6.2	1,005.6	2.00	0.00	-2.00
7,881.7	90.00	0.17	7,439.5	1,087.3	7.6	1,087.3	2.00	0.00	-2.00
Start 1037	2.7 hold at 788	1.7 MD							
7,900.0	90.00	0.17	7,439.5	1,105.5	7.6	1,105.5	0.00	0.00	0.00
8,000.0	90.00	0.17	7,439.5	1,205.5	7.9	1,205.5	0.00	0.00	0.00
8,100.0	90.00	0.17	7,439.5	1,305.5	8.2	1,305.5	0.00	0.00	0.00
8,200.0	90.00	0.17	7,439.5	1,405.5	8.5	1,405.5	0.00	0.00	0.00
8,300.0	90.00	0.17	7,439.5	1,505.5	8.8	1,505.5	0.00	0.00	0.00
8,400.0	90.00	0.17	7,439.5	1,605.5	9.1	1,605.5	0.00	0.00	0.00
8,500.0	90.00	0.17	7,439.5	1,705.5	9.4	1,705.5	0.00	0.00	0.00
8,600.0	90.00	0.17	7,439.5	1,805.5	9.7	1,805.5	0.00	0.00	0.00
8,700.0	90.00	0.17	7,439.5	1,905.5	10.0	1,905.5	0.00	0.00	0.00
8,800.0	90.00	0.17	7,439.5	2,005.5	10.3	2,005.5	0.00	0.00	0.00
8,900.0	90.00	0.17	7,439.5	2,105.5	10.5	2,105.5	0.00	0.00	0.00
9,000.0	90.00	0.17	7,439.5	2,205.5	10.8	2,205.5	0.00	0.00	0.00
9,100.0	90.00	0.17	7,439.5	2,305.5	11.1	2,305.5	0.00	0.00	0.00
9,200.0	90.00	0.17	7,439.5	2,405.5	11.4	2,405.5	0.00	0.00	0.00
9,300.0	90.00	0.17	7,439.5	2,505.5	11.7	2,505.5	0.00	0.00	0.00
9,400.0	90.00	0.17	7,439.5	2,605.5	12.0	2,605.5	0.00	0.00	0.00
9,500.0	90.00	0.17	7,439.5	2,705.5	12.3	2,705.5	0.00	0.00	0.00
9,600.0	90.00	0.17	7,439.5	2,805.5	12.6	2,805.5	0.00	0.00	0.00
9,700.0	90.00	0.17	7,439.5	2,905.5	12.9	2,905.5	0.00	0.00	0.00
9,800.0	90.00	0.17	7,439.5	3,005.5	13.2	3,005.5	0.00	0.00	0.00
9,900.0	90.00	0.17	7,439.5	3,105.5	13.5	3,105.5	0.00	0.00	0.00
10,000.0	90.00	0.17	7,439.5	3,205.5	13.8	3,205.5	0.00	0.00	0.00
10,100.0	90.00	0.17	7,439.5	3,305.5	14.1	3,305.5	0.00	0.00	0.00
10,200.0	90.00	0.17	7,439.5	3,405.5	14.4	3,405.5	0.00	0.00	0.00
10,300.0	90.00	0.17	7,439.5	3,505.5	14.7	3,505.5	0.00	0.00	0.00
10,400.0	90.00	0.17	7,439.5	3,605.5	14.9	3,605.5	0.00	0.00	0.00
10,500.0	90.00	0.17	7,439.5	3,705.5	15.2	3,705.5	0.00	0.00	0.00
10,600.0	90.00	0.17	7,439.5	3,805.5	15.5	3,805.5	0.00	0.00	0.00
10,700.0	90.00	0.17	7,439.5	3,905.5	15.8	3,905.5	0.00	0.00	0.00
10,800.0	90.00	0.17	7,439.5	4,005.5	16.1	4,005.5	0.00	0.00	0.00
10,900.0	90.00	0.17	7,439.5	4,105.5	16.4	4,105.5	0.00	0.00	0.00
11,000.0	90.00	0.17	7,439.5	4,205.5	16.7	4,205.5	0.00	0.00	0.00
11,100.0	90.00	0.17	7,439.5	4,305.5	17.0	4,305.5	0.00	0.00	0.00
11,200.0	90.00	0.17	7,439.5	4,405.5	17.3	4,405.5	0.00	0.00	0.00
11,300.0	90.00	0.17	7,439.5	4,505.5	17.6	4,505.5	0.00	0.00	0.00
11,400.0	90.00	0.17	7,439.5	4,605.5	17.9	4,605.5	0.00	0.00	0.00
11,500.0	90.00	0.17	7,439.5	4,705.5	18.2	4,705.5	0.00	0.00	0.00
11,600.0	90.00	0.17	7,439.5	4,805.5	18.5	4,805.5	0.00	0.00	0.00
11,700.0	90.00	0.17	7,439.5	4,905.5	18.8	4,905.5	0.00	0.00	0.00
11,800.0	90.00	0.17	7,439.5	5,005.5	19.1	5,005.5	0.00	0.00	0.00
11,900.0	90.00	0.17	7,439.5	5,105.5	19.4	5,105.5	0.00	0.00	0.00
12,000.0	90.00	0.17	7,439.5	5,205.5	19.6	5,205.5	0.00	0.00	0.00

Database: Company:

EDM 5000.14 Server

Matador Production Company

Project: Site:

Rustler Breaks Ray State

Ray State Com #114H Well: Wellbore: Wellbore #1

State Plan #1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Ray State Com#114H

KB @ 2997.5usft KB @ 2997.5usft

Grid

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,100.0	90.00	0.17	7,439.5	5,305.5	19.9	5,305.5	0.00	0.00	0.00
12,200.0	90.00	0.17	7,439.5	5,405.5	20.2	5,405.5	0.00	0.00	0.00
12,300.0	90.00	0.17	7,439.5	5,505.5	20.5	5,505.5	0.00	0.00	0.00
12,400.0	90.00	0.17	7,439.5	5,605.5	20.8	5,605.5	0.00	0.00	0.00
12,500.0	90.00	0.17	7,439.5	5,705.5	21.1	5,705.5	0.00	0.00	0.00
12,600.0	90.00	0.17	7,439.5	5,805.5	21.4	5,805.5	0.00	0.00	0.00
12,700.0	90.00	0.17	7,439.5	5,905.5	21.7	5,905.5		0.00	0.00
12,700.0 12,800.0 12,900.0 13,000.0 13,100.0	90.00 90.00 90.00 90.00	0.17 0.17 0.17 0.17 0.17	7,439.5 7,439.5 7,439.5 7,439.5 7,439.5	6,005.5 6,105.5 6,205.5 6,305.5	22.0 22.3 22.6 22.9	6,005.5 6,105.5 6,205.5 6,305.5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
13,200.0	90.00	0.17	7,439.5	6,405.5	23.2	6,405.5	0.00	0.00	0.00
13,300.0	90.00	0.17	7,439.5	6,505.5	23.5	6,505.5	0.00	0.00	0.00
13,400.0	90.00	0.17	7,439.5	6,605.5	23.8	6,605.5	0.00	0.00	0.00
13,500.0	90.00	0.17	7,439.5	6,705.5	24.0	6,705.5	0.00	0.00	0.00
13,600.0	90.00	0.17	7,439.5	6,805.5	24.3	6,805.5	0.00	0.00	0.00
13,700.0	90.00	0.17	7,439.5	6,905.5	24.6	6,905.5	0.00	0.00	0.00
13,800.0	90.00	0.17	7,439.5	7,005.5	24.9	7,005.5	0.00	0.00	0.00
13,900.0	90.00	0.17	7,439.5	7,105.5	25.2	7,105.5	0.00	0.00	0.00
14,000.0	90.00	0.17	7,439.5	7,205.5	25.5	7,205.5	0.00	0.00	0.00
14,100.0	90.00	0.17	7,439.5	7,305.5	25.8	7,305.5	0.00	0.00	0.00
14,200.0	90.00	0.17	7,439.5	7,405.5	26.1	7,405.5	0.00	0.00	0.00
14,300.0	90.00	0.17	7,439.5	7,505.5	26.4	7,505.5	0.00	0.00	0.00
14,400.0	90.00	0.17	7,439.5	7,605.5	26.7	7,605.5	0.00	0.00	0.00
14,500.0	90.00	0.17	7,439.5	7,705.5	27.0	7,705.5	0.00	0.00	0.00
14,600.0	90.00	0.17	7,439.5	7,805.5	27.3	7,805.5	0.00	0.00	0.00
14,700.0	90.00	0.17	7,439.5	7,905.5	27.6	7,905.5	0.00	0.00	0.00
14,800.0	90.00	0.17	7,439.5	8,005.5	27.9	8,005.5	0.00	0.00	0.00
14,900.0	90.00	0.17	7,439.5	8,105.5	28.2	8,105.5	0.00	0.00	0.00
15,000.0	90.00	0.17	7,439.5	8,205.5	28.4	8,205.5	0.00	0.00	0.00
15,100.0	90.00	0.17	7,439.5	8,305.5	28.7	8,305.5	0.00	0.00	0.00
15,200.0	90.00	0.17	7,439.5	8,405.5	29.0	8,405.5	0.00	0.00	0.00
15,300.0	90.00	0.17	7,439.5	8,505.5	29.3	8,505.5	0.00	0.00	0.00
15,400.0	90.00	0.17	7,439.5	8,605.5	29.6	8,605.5	0.00	0.00	0.00
15,500.0	90.00	0.17	7,439.5	8,705.5	29.9	8,705.5	0.00	0.00	0.00
15,600.0	90.00	0.17	7,439.5	8,805.5	30.2	8,805.5	0.00	0.00	0.00
15,700.0	90.00	0.17	7,439.5	8,905.5	30.5	8,905.5	0.00	0.00	0.00
15,800.0	90.00	0.17	7,439.5	9,005.5	30.8	9,005.5	0.00	0.00	0.00
15,900.0	90.00	0.17	7,439.5	9,105.5	31.1	9,105.5	0.00	0.00	0.00
16,000.0	90.00	0.17	7,439.5	9,205.5	31.4	9,205.5	0.00	0.00	0.00
16,100.0	90.00	0.17	7,439.5	9,305.5	31.7	9,305.5	0.00	0.00	0.00
16,200.0	90.00	0.17	7,439.5	9,405.5	32.0	9,405.5	0.00	0.00	0.00
16,300.0	90.00	0.17	7,439.5	9,505.5	32.3	9,505.5	0.00	0.00	0.00
16,400.0	90.00	0.17	7,439.5	9,605.5	32.6	9,605.5	0.00	0.00	0.00
16,500.0	90.00	0.17	7,439.5	9,705.5	32.9	9,705.5	0.00	0.00	0.00
16,600.0	90.00	0.17	7,439.5	9,805.5	33.1	9,805.5	0.00	0.00	0.00
16,700.0	90.00	0.17	7,439.5	9,905.5	33.4	9,905.5	0.00	0.00	0.00
16,800.0	90.00	0.17	7,439.5	10,005.5	33.7	10,005.5	0.00	0.00	0.00
16,900.0	90.00	0.17	7,439.5	10,105.5	34.0	10,105.5	0.00	0.00	0.00
17,000.0	90.00	0.17	7,439.5	10,205.5	34.3	10,205.5	0.00	0.00	0.00
17,100.0	90.00	0.17	7,439.5	10,305.5	34.6	10,305.5	0.00	0.00	0.00
17,200.0	90.00	0.17	7,439.5	10,405.5	34.9	10,405.5	0.00	0.00	0.00
17,300.0	90.00	0.17	7,439.5	10,505.5	35.2	10,505.5	0.00	0.00	0.00
17,400.0	90.00	0.17	7,439.5	10,605.5	35.5	10,605.5	0.00	0.00	0.00

Database: EDM 5000.14 Server Company:

Matador Production Company

Project: Rustler Breaks Ray State Site:

Well: Ray State Com #114H Wellbore: Wellbore #1 Design: State Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Ray State Com#114H

KB @ 2997.5usft KB @ 2997.5usft

Grid

Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
90.00	0.17	7,439.5	10,705.5	35.8	10,705.5	0.00	0.00	0.00
90.00	0.17	7,439.5	10,805.5	36.1	10,805.5	0.00	0.00	0.00
90.00	0.17	7,439.5	10,905.5	36.4	10,905.5	0.00	0.00	0.00
90.00	0.17	7,439.5	11,005.5	36.7	11,005.5	0.00	0.00	0.00
90.00	0.17	7,439.5	11,105.5	37.0	11,105.5	0.00	0.00	0.00
90.00	0.17	7,439.5	11,205.5	37.3	11,205.5	0.00	0.00	0.00
90.00	0.17	7,439.5	11,305.5	37.5	11,305.5	0.00	0.00	0.00
90.00	0.17	7,439.5	11,405.5	37.8	11,405.5	0.00	0.00	0.00
90.00	0.17	7,439.5	11,459.9	38.0	11,459.9	0.00	0.00	0.00
	90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	90.00 0.17 90.00 0.17 90.00 0.17 90.00 0.17 90.00 0.17 90.00 0.17 90.00 0.17 90.00 0.17 90.00 0.17 90.00 0.17	Inclination (°) Azimuth (usft) Depth (usft) 90.00 0.17 7,439.5 90.00 0.17 7,439.5 90.00 0.17 7,439.5 90.00 0.17 7,439.5 90.00 0.17 7,439.5 90.00 0.17 7,439.5 90.00 0.17 7,439.5 90.00 0.17 7,439.5 90.00 0.17 7,439.5	Inclination (°) Azimuth (°) Depth (usft) +N/-S (usft) 90.00 0.17 7,439.5 10,705.5 90.00 0.17 7,439.5 10,805.5 90.00 0.17 7,439.5 10,905.5 90.00 0.17 7,439.5 11,005.5 90.00 0.17 7,439.5 11,105.5 90.00 0.17 7,439.5 11,205.5 90.00 0.17 7,439.5 11,305.5 90.00 0.17 7,439.5 11,405.5 90.00 0.17 7,439.5 11,459.9	Inclination (°) Azimuth (°) Depth (usft) +N/-S (usft) +E/-W (usft) 90.00 0.17 7,439.5 10,705.5 35.8 90.00 0.17 7,439.5 10,805.5 36.1 90.00 0.17 7,439.5 10,905.5 36.4 90.00 0.17 7,439.5 11,005.5 36.7 90.00 0.17 7,439.5 11,105.5 37.0 90.00 0.17 7,439.5 11,205.5 37.3 90.00 0.17 7,439.5 11,305.5 37.8 90.00 0.17 7,439.5 11,405.5 37.8 90.00 0.17 7,439.5 11,459.9 38.0	Inclination (°) Azimuth (°) Depth (usft) +N/-S (usft) +E/-W (usft) Section (usft) 90.00 0.17 7,439.5 10,705.5 35.8 10,705.5 90.00 0.17 7,439.5 10,805.5 36.1 10,805.5 90.00 0.17 7,439.5 10,905.5 36.4 10,905.5 90.00 0.17 7,439.5 11,005.5 36.7 11,005.5 90.00 0.17 7,439.5 11,205.5 37.0 11,105.5 90.00 0.17 7,439.5 11,305.5 37.3 11,205.5 90.00 0.17 7,439.5 11,405.5 37.8 11,405.5 90.00 0.17 7,439.5 11,405.5 37.8 11,405.5 90.00 0.17 7,439.5 11,459.9 38.0 11,459.9	Inclination (°) Azimuth (°) Depth (usft) +N/-S (usft) +E/-W (usft) Section (usft) Rate (°/100usft) 90.00 0.17 7,439.5 10,705.5 35.8 10,705.5 0.00 90.00 0.17 7,439.5 10,805.5 36.1 10,805.5 0.00 90.00 0.17 7,439.5 10,905.5 36.4 10,905.5 0.00 90.00 0.17 7,439.5 11,005.5 36.7 11,005.5 0.00 90.00 0.17 7,439.5 11,105.5 37.0 11,105.5 0.00 90.00 0.17 7,439.5 11,205.5 37.3 11,205.5 0.00 90.00 0.17 7,439.5 11,305.5 37.5 11,305.5 0.00 90.00 0.17 7,439.5 11,405.5 37.8 11,405.5 0.00 90.00 0.17 7,439.5 11,459.9 38.0 11,459.9 0.00	Inclination (°) Azimuth (usft) HN/-S (usft) HE/-W (usft) Section (usft) (°/100usft) (°/100usft)

Design Targets									
Target Name - hit/miss target Di - Shape	p Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
VP - Ray State Com # - plan hits target cent - Point	0.00 er	0.00	6,866.5	428.0	-13.0	455,852.00	592,818.00	32° 15' 10.430 N	104° 1' 59.120 W
BHL - Ray State Com - plan hits target cent - Point	0.00 er	0.00	7,439.5	11,459.9	38.0	466,884.00	592,869.00	32° 16' 59.604 N	104° 1' 58.166 W

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	68.4	68.4	Rustler			
	634.2	634.2	Salado (Top SALT)			
	1,198.6	1,198.6	Castile (T)			
	2,735.2	2,722.9	BASE SALT			
	2,780.7	2,767.9	Bell Cyn (T. Delaware)			
	3,684.1	3,662.5	Cherry Cyn.			
	4,853.0	4,824.3	Brushy Canyon			
	5,510.0	5,481.4	M. Brushy Canyon			
	6,147.5	6,118.9	L. Brushy Canyon			
	6,466.1	6,437.5	Pipeline			
	6,482.6	6,453.9	Bone Spring Lime			
	7,261.4	7,208.3	FBSC			
	7,643.4	7,419.5	FBSG			

Database: EDM 5000.14 Server

Company: Matador Production Company

Project: Rustler Breaks
Site: Ray State

Well: Ray State Com #114H

Wellbore: Wellbore #1
Design: State Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Ray State Com#114H

KB @ 2997.5usft KB @ 2997.5usft

Grid

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coor +N/-S (usft)	dinates +E/-W (usft)	Comment	
1,200.0	1,200.0	0.0	0.0	Start Build 2.00	
1.600.0	1,598.7	27.9	-0.8	Start 2676.4 hold at 1600.0 MD	
4,276.4	4,249.0	400.2	-12.2	Start Drop -2.00	
4,676.4	4,647.7	428.0	-13.0	Start 2218.8 hold at 4676.4 MD	
6,895.1	6,866.5	428.0	-13.0	Start Build 10.00	
7,795.1	7,439.5	1,000.7	6.0	Start DLS 2.00 TFO -90.01	
7,881.7	7,439.5	1,087.3	7.6	Start 10372.7 hold at 7881.7 MD	
18,254.4	7,439.5	11,459.9	38.0	TD at 18254.4	