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 346807

APPLICATION FOR PERMIT TO DRILL	RE-ENTER D	FEPEN PLUC	BACK OR /	ADD A ZONE

MA	ame and Address ATADOR PRODUCTIC ne Lincoln Centre	ON COMPANY								OGRID Number			
	allas, TX 75240								0.		15-5405	8	
4. Property Code 5. Property Name									6.	Well No.			
33	3281		N	IICHAEL R	YAN FEDERAL COM					223	Н		
					7. Surfa	e Location							
UL - Lot	Section	Township	Ra	nge	Lot Idn	Feet From	N/S Line	Fee	From	E/W Li	ne	County	
М	16	22	S	28E	E M	549		S	320		W	Ec	ldy
					8. Proposed Bo	tom Hole Loc	ation						
UL - Lot	Section	Township	Ran			eet From	N/S Line		From	E/W L		County	
J	15	225	5	28E	J	1980		S	1675		E	Ec	ldy
					9. Pool I	nformation							
PURPLE SA	GE;WOLFCAMP (GA	S)									98220		
					Additional V	lell Informatio	on						
11. Work Type)	12. Well Typ	e		13. Cable/Rotary		14. Lease Type		15. Grour	nd Level Elev	ation		
	ew Well	-	AS				Stat	е		3078			
16. Multiple		17. Propose			18. Formation		19. Contractor		20. Spud				
N Depth to Grou	ind water		8919		Wolfcamp Distance from nearest free	sh water well	5/30/2025 h water well Distance to nearest surface water						
Deptil to Olot					Distance nom nearest ne.	SI Water wen			Distance	to nearest sun	ace water		
🛛 We will be	using a closed-loop	system in lie	u of lined	oits									
					21. Proposed Casin	and Comon	t Program						
Туре	Hole Size	Casing	Size		Casing Weight/ft		ng Depth	S	acks of Cem	ent		Estimated TOC	;
Surf	17.5	13.3			54.5				380			0	
Int1	9.875	7.62	-		29.7				810			0	
Prod	6.75	5.5)		20	18	3859		1050			9235	
					Casing/Cement Progra	m: Additiona	I Comments						
Option to dr	ill surface hole with s	urface setting	rig Option	to run DV	tool and Packer.								
					22. Proposed Blowd	ut Preventior	Program						
	Туре			V	Vorking Pressure			t Pressure			Manu	ufacturer	
	Annular				5000		3000 Ca			Ca	meron		
	Double Ram				10000			5000			Ca	meron	
	Pipe				10000			5000			Ca	mreon	
23. I hereby knowledge a		ation given at	ove is true	and comp	plete to the best of my			OILCO	NSERVATI	ON DIVISIO	N		
		with 19.15.14	.9 (A) NMA	C 🛛 and/	or 19.15.14.9 (B) NMAC	;							
X, if applica													
Signature:	Electron 1	. 61 I. I D	A 1				14/	Dilucia					
Printed Name		filed by Brett	A Jennings	3		Approved By Title:	: Ward	Rikala					
Title: Email Address	Regulatory A						ite: 8/15/2	2022		Expiration	Data: 9/15	5/2025	
Email Address Date:	s: breu.jenning 8/7/2023	s@matadorre			0.2160	Approved Da				Expiration	Date: 0/15	012020	
Date:	0/1/2023		Phor	3 Phone: 972-629-2160			Conditions of Approval Attached						

District I

District II

District III

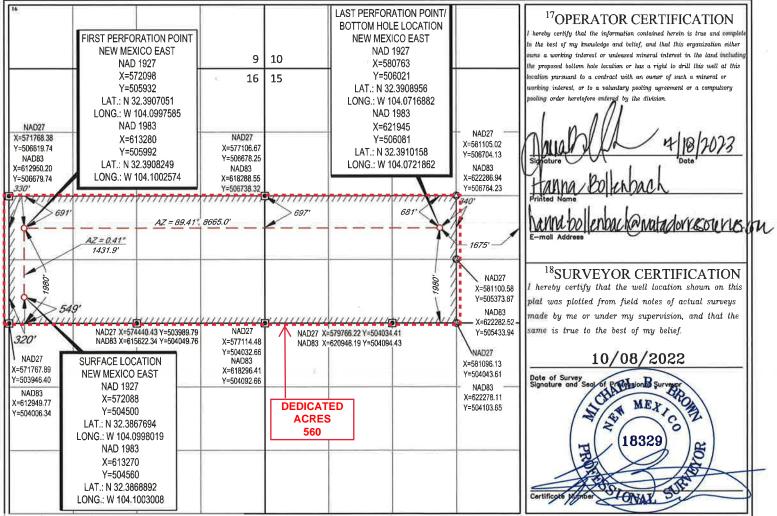
District IV

Page 2 of 20

FORM C-102 State of New Mexico 1625 N. French Dr., Hobbs, NM 88240 **Revised August 1, 2011** Phone: (575) 393-6161 Fax: (575) 393-0720 Energy, Minerals & Natural Resources 811 S. First St., Artesia, NM 88210 Submit one copy to appropriate Department Phone: (575) 748-1283 Fax: (575) 748-9720 **District Office OIL CONSERVATION DIVISION** 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 1220 South St. Francis Dr. AMENDED REPORT 1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 WELL LOCATION AND ACREAGE DEDICATION PLAT

T	¹ API Number ² Pool Code ³ Pool Name									
	015-54							(ba.	s)	
⁴ Property C	ode				⁵ Property N	lame			6	Vell Number
333281				MIC	HAEL RYAN	N FEDERAL C	ОМ			223H
OGRID N	0.				⁸ Operator I	lame				⁹ Elevation
22893	7		MATADOR PRODUCTION COMPANY 3078'						3078'	
¹⁰ Surface Location										
UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	Ea	st/West line	County
M	16	22-S	28-E	-	549'	SOUTH	320'	WEST 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	E	ast/West line	County
J	15	22-S	S 28-E - 1980' SOUTH 1675' EAST EDDY						EDDY	
¹² Dedicated Acres	¹³ Joint or I	nfill ¹⁴ C	Consolidation Co	de ¹⁵ Ord	er No.					
560			С							

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.



Released to Imaging: 8/15/2023 1:18:43 BM vinatador_resourcesinichael_ryan_16-225-28EVFINAL_PRODUCTSILO_MICHAEL_RYAN_FED_COM_223H_REV5.DWG 10/17/2022 2:33:40 PM adise

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

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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

PERMIT CONDITIONS OF APPROVAL

Operator Nan	ne and Address:	API Number:					
M	ATADOR PRODUCTION COMPANY [228937]	30-015-54058					
0	ne Lincoln Centre	Well:					
Da	allas, TX 75240	MICHAEL RYAN FEDERAL COM #223H					
		·					
OCD	Condition						
Reviewer							
ward.rikala	Notify OCD 24 hours prior to casing & cement						
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104						
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the	ne surface, the operator shall drill without interruption through the					
	fresh water zone or zones and shall immediately set in cement the water protection string						
ward.rikala	rd.rikala Cement is required to circulate on both surface and intermediate1 strings of casing						
ward.rikala	vard.rikala 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						

ward.rikala The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

Form APD Conditions

Permit 346807

Addendum to Natural Gas Management Plan for Matador's

Michael Ryan TB

VI. Separation Equipment

Flow from the wells will be routed via a flowline to a 48"x15' three phase separator dedicated to the well. The first stage separators are sized with input from BRE ProMax and API 12J. Anticipated production rates can be seen in the below table. Liquid retention times at expected maximum rates will be >3 minutes. Gas will be routed from the first stage separator to sales. Hydrocarbon liquids are dumped from the first stage separator and commingled to one or more heater treaters. The flash gas from the heater treater(s) could either be sent to sales or routed to a compressor if the sales line pressure is higher than the MAWP of the heater treater (125 psi). From the heater treaters, hydrocarbon liquid will be routed to the tanks where vapor is compressed by a VRU if technically feasible to either sales or a compressor if the sales line pressure is higher than the VRU's maximum discharge pressure (~150 psi). Therefore, Matador has sized our separation equipment to optimize gas capture and our separation equipment is of sufficient size to handle the expected volumes of gas.

Well Name	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Barry Miller State Com 221H	400	4,500	2,500
Barry Miller State Com 222H	400	4,500	2,500
Michel Ryan Federal Com 223H	400	4,500	2,500

VII. Operation Practices

Although not a complete recitation of all our efforts to comply with subsection A through F of 19.15.27.8 NMAC, a summary is as follows. 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

State of New Mexico Energy, Minerals and Natural Resources Department

> **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

II. Type: \boxtimes Original \square Amendment due to \square 19.15.27.9.D(6)(a) NMAC \square 19.15.27.9.D(6)(b) NMAC \square 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
Barry Miller State Com 221H	TBD	D 16-22S-28E	855' FNL 430'	400	4,500	2,500
			FWL			
Barry Miller State Com 222H	TBD	D 21-22S-28E	855' FNL 460'	400	4,500	2,500
			FWL			
Michel Ryan Federal Com 2231	I TBD	D-16-22S-28E	549'FSL 320'	400	4,500	2,500
			FWL			

IV. Central Delivery Point Name: Michael Ryan TB

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
Barry Miller State Com 221H	TBD	05/07/2025	05/25/2025	07/07/2025	08/07/2025	08/08/2025
Barry Miller State Com 222H	TBD	04/18/2025	05/06/2025	07/07/2025	08/07/2025	08/08/2025
Michel Ryan Federal Com 2231	I TBD	05/30/2025	05/30/2025	07/07/2025	08/07/2025	08/08/2025

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.

Submit Electronically Via E-permitting

Date: 07/26/2023

[See 19.15.27.9(D)(1) NMAC]

OGRID: 228937

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 app licable 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. \Box 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 \Box will \Box 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 \Box does \Box 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: \Box 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.

<u>Section 3 - Certifications</u> <u>Effective May 25, 2021</u>

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: \square 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 p ipeline gathering system; or

 \Box 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. \Box 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. \Box 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 d ays 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.

Matador Production Company

Rustler Breaks Michael Ryan Michael Ryan Fed Com #223H

Wellbore #1 BLM Plan #1

Anticollision Report

20 July, 2023

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Michael Ryan Fed Com #223H
Project:	Rustler Breaks	TVD Reference:	KB @ 3106.5usft
Reference Site:	Michael Ryan	MD Reference:	KB @ 3106.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Michael Ryan Fed Com #223H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum
Reference	BLM Plan #1		

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria					
Interpolation Method:	Stations	Error Model:	ISCWSA			
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D			
Results Limited by:	Maximum center-center distance of 10,000.0 usft	Error Surface:	Pedal Curve			
Warning Levels Evaluate	d at: 2.00 Sigma	Casing Method:	Not applied			

Survey Tool Program		Date 7/19/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	18,859.3	BLM Plan #1 (Wellbore #1)	MVVD	OWSG MWD - Standard

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Dista Between Centres (usft)	nce Between Ellipses (usft)	Separation Factor	Warning
Barry Miller						
Barry Miller State Com #136H - Wellbore #1 - State Plan Barry Miller State Com #136H - Wellbore #1 - State Plan Barry Miller State Com #136H - Wellbore #1 - State Plan	9,193.8 9,200.0 17,800.0	9,406.7 9,411.4 17,250.3	805.6 805.6 1,015.0	738.3 738.3 739.5	11.977 CC 11.971 ES 3.683 SF	
Michael Ryan						
Michael Ryan Fed Com #124H - Wellbore #1 - BLM Plan Michael Ryan Fed Com #124H - Wellbore #1 - BLM Plan Michael Ryan Fed Com #124H - Wellbore #1 - BLM Plan Michael Ryan Fed Com #138H - Wellbore #1 - BLM Plan Michael Ryan Fed Com #138H - Wellbore #1 - BLM Plan	1,500.0 3,800.0 18,848.8 2,000.0 2,100.0	1,500.0 3,781.6 18,114.6 2,001.0 2,101.0	85.4 88.5 1,160.5 42.3 43.1	75.2 61.2 784.3 28.5 28.5	8.301 CC 3.249 ES 3.085 SF 3.050 CC 2.950 SF	, ES
Michael Ryan Fed Com #203H - Wellbore #1 - BLM Plan Michael Ryan Fed Com #203H - Wellbore #1 - BLM Plan Michael Ryan Fed Com #203H - Wellbore #1 - BLM Plan Michael Ryan Fed Com #224H - Wellbore #1 - BLM Plan	0.0 500.0 18,859.3 2,348.2	0.0 500.9 18,364.7 2,349 <u>.</u> 3	80.2 81.1 690.0 25.6	78.0 436.0 9.3	25.832 ES 2.717 SF 1.570 CC	
Michael Ryan Fed Com #224H - Wellbore #1 - BLM Plan Michael Ryan State Com #123H - Wellbore #1 - State Pl Michael Ryan State Com #123H - Wellbore #1 - State Pl Michael Ryan State Com #137H - Wellbore #1 - BLM Pla	2,400.0 1,700.0 7,914.4 1,204.0	2,400.9 1,700.0 7,945.1 1,205.4	26.1 110.0 222.0 8.4	9.4 98.3 161.5 0.3	1.565 SF 9.381 CC 3.668 SF 1.032 Lev	, ES

urvey Progi Refere		WD Offse	et	Semi Major	Axis				Dista	ance			Offset Well Error:	0.0 u
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Too l face (°)	Offset Wellbo +N/-S (usft)	re Centre +E/ - W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	6.0	6.0	0.0	0.0	2.04	3,971.1	141.3	3,973.6					
100.0	100.0	106.0	106.0	0.1	0.1	2.04	3,971.1	141.3	3,973.6	3,973.3	0.28	N/A		
200.0	200.0	206.0	206.0	0.5	0.5	2.04	3,971.1	141.3	3,973.6	3,972.6	0.99	3,994.531		
300.0	300.0	306.0	306.0	0.8	0.9	2.04	3,971.1	141.3	3,973.6	3,971.9	1.71	2,321.429		
400.0	400.0	406.0	406.0	1.2	1.2	2.04	3,971.1	141.3	3,973.6	3,971.2	2.43	1,636.137		
500.0	500.0	506.0	506.0	1.6	1.6	2.04	3,971.1	141.3	3,973.6	3,970.4	3.15	1,263.228		
600.0	600.0	606.0	606.0	1.9	1.9	2.04	3,971.1	141.3	3,973.6	3,969.7	3.86	1,028.754		
700.0	700.0	706.0	706.0	2.3	2.3	2.04	3,971.1	141.3	3,973.6	3,969.0	4.58	867.697		
800.0	800.0	806.0	806.0	2.6	2.7	2.04	3,971.1	141.3	3,973.6	3,968.3	5.30	750.242		
900.0	900.0	906.0	906.0	3.0	3.0	2.04	3,971.1	141.3	3,973.6	3,967.6	6.01	660.794		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

7/20/2023 9:17:47AM

Matador Production Company

Rustler Breaks Michael Ryan Michael Ryan Fed Com #223H

Wellbore #1

Plan: BLM Plan #1

Standard Planning Report

20 July, 2023

Database: Company: Project: Site: Well: Well: Wellbore: Design:		Matade Rustle Michae	r Breaks el Ryan el Ryan Feo re #1	rver on Compan d Com #223		TV ME No	cal Co-ordii D Referenc) Reference rth Referen rvey Calcul	e: : ce:		Well Michael F KB @ 3106.5u KB @ 3106.5u Grid Minimum Curv	usft	223H
Project		Rustler	Breaks,									
Map System: Geo Datum: Map Zone:	Ν	IAD 192		7 (Exact so N CONUS) 001		Syst	em Datum:			lean Sea Level Ising geodetic s		
Site		Michael	Ryan									
Site Position: From: Position Uncert	tainty:	Lat/I	₋ong	0.0 usft	Northing: Easting: Slot Radius:		504,500 572,088 1:		Latitude: Longitude: Grid Convei	gence:		32° 23' 12.370 N 104° 5' 59.288 W 0.13 °
Well		Michael	Ryan Fed	Com #223F	1							
Well Position Position Uncert		+N/-S +E/-W		-0.2 usft 0.0 usft 0.0 usft	Northing: Easting: Wellhead E	Elevation:		04,500.00 72,088.00	usft Lo	titude: ongitude: ound Level:		32° 23' 12.368 N 104° 5' 59.288 W 3,078.0 usft
Wellbore		Wellbo	re #1									
Magnetics		Мо	del Name		Sample Date		Declination (°)		-	Angle (°)		trength T)
			IGRF20	15	7/20/202	23		6.55		60.05	47,3	55.97387654
Design		BLM Pl	an #1									
Audit Notes:												
Version:	1				Phase:	PLAN		Tie	On Depth:		0.0	
Vertical Section	1:				rom (TVD)		N/-S		/-W	D	Direction	
					sft) .0	•	isft) 0.0		sft) .0		(°) 89.43	
Plan Survey To Depth Fro (usft) 1	-	Depth (ust	it) Sur	vey (Wellbo		Tool N MWD OWSG	l ame MWD - Sta	ndard	Remarks			
Plan Sections												
Plan Sections Measured Depth (usft)	Inclina (°)		Azimuth (°)	Vertic Dept (usfl	h +N/-S		w	ogleg Rate 00usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
Measured Depth (usft) 0.0		0.00	(°) 0.0	Dept (usfl	h +N/-S :) (usft) 0.0	0.0	• W ft) (°/1	Rate 00usft) 0.00	Rate (°/100usft) 0.00	Rate (°/100usft)	(°) 0.00	Target
Measured Depth (usft) 0.0 2,000.0	(°)	0.00 0.00	(°) 0.0 0.0	Dept (usfi 00 2,0	h +N/-S :) (usft) 0.0 000.0	0.0 0.0	• W ft) (°/1 0.0 0.0	Rate 00usft) 0.00 0.00	Rate (°/100usft) 0.00	Rate (°/100usft) 0 0.00 0 0.00	(°) 0.00 0.00	Target
Measured Depth (usft) 0.0	(°)	0.00	(°) 0.0	Dept (usfi 00 2,0 32 3,3	h +N/-S 0.0 000.0 362.6 10	0.0 0.0 61.5	• W ft) (°/1	Rate 00usft) 0.00	Rate (°/100usft) 0.00	Rate (°/100usft) 0 0.00 0 0.00 0 0.00 0 0.00	(°) 0.00 0.00 349.32	Target
Measured Depth (usft) 0.0 2,000.0 3,375.8 8,351.5 9,268.7	(°)	0.00 0.00 13.76 13.76 0.00	(°) 0.0 349.0 349.0 0.0	Dept (usff 00 2,0 32 3,2 32 8,1 00 9,1	h +N/-S c) (usft) 000.0 362.6 11 195.6 1,3: 104.0 1,4:	0.0 0.0 61.5 24.4 32.1	•W ft) (°11 0.0 0.0 -30.5 -249.7 -270.0	Rate 00usft) 0.00 0.00 1.00 0.00 1.50	Rate (°/100usft) 0.00 0.00 1.00 -1.50	Rate (*/100usft) 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	(°) 0 0.00 0 349.32 0 0.00 0 180.00	
Measured Depth (usft) 0.0 2,000.0 3,375.8 8,351.5 9,268.7 9,568.7	(°)	0.00 0.00 13.76 13.76 0.00 0.00	(°) 0.0 349.3 349.0 0.0	Dept (usf) 00 2,0 32 3,2 32 8,1 00 9,1 00 9,2	h +N/-S 0.0 (usft) 000.0 362.6 11 195.6 1,3: 104.0 1,4: 104.0 1,4: 104.0 1,4:	0.0 0.0 61.5 24.4 32.1 32.1	•W ft) (°/1 0.0 0.0 -30.5 249.7 270.0 270.0	Rate 00usft) 0.00 0.00 1.00 0.00 1.50 0.00	Rate (*/100usft) 0.00 0.00 -1.50 0.00	Rate (*/100usft) 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	(°) 0.00 0.00 349.32 0.00 180.00 0.00	Target √P - Michael Ryan Fe
Measured Depth (usft) 0.0 2,000.0 3,375.8 8,351.5 9,268.7	(°)	0.00 0.00 13.76 13.76 0.00	(°) 0.0 349.0 349.0 0.0	Dept (usfl 00 2,0 32 3,0 32 8,1 00 9,1 00 9,4 40 9,5	h +N/-S 0.0 (usft) 000.0 0 062.6 11 195.6 1,33 104.0 1,44 04.0 1,44 076.7 1,55	0.0 0.0 61.5 24.4 32.1	•W ft) (°11 0.0 0.0 -30.5 -249.7 -270.0	Rate 00usft) 0.00 0.00 1.00 0.00 1.50	Rate (°/100usft) 0.00 0.00 1.00 -1.50	Rate (°/100usft) 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	(°) 0 0.00 0 349.32 0 0.00 180.00 0 0.00 0 78.40	

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Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Michael Ryan Fed Com #223H
Company:	Matador Production Company	TVD Reference:	KB @ 3106.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3106.5usft
Site:	Michael Ryan	North Reference:	Grid
Well:	Michael Ryan Fed Com #223H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM 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
172.1	0.00	0.00	172.1	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
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
411.2	0.00	0.00	411.2	0.0	0.0	0.0	0.00	0.00	0.00
Salado									
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
943.4	0.00	0.00	943.4	0.0	0.0	0.0	0.00	0.00	0.00
Castile (T)									
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 1	.00								
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	1.00	349.32	2,100.0	0.9	-0.2	-0.2	1.00	1.00	0.00
2,200.0	2.00	349.32	2,200.0	3.4	-0.6	-0.6	1.00	1.00	0.00
2,300.0	3.00	349.32	2,299.9	7.7	-1.5	-1.4	1.00	1.00	0.00
2,400.0	4.00	349.32	2,399.7	13.7	-2.6	-2.4	1.00	1.00	0.00
2,500.0	5.00	349.32	2,499.4	21.4	-4.0	-3.8	1.00	1.00	0.00
2,514.7	5.15	349.32	2,514.0	22.7	-4.3	-4.1	1.00	1.00	0.00
G30:CS14-C	SB								
2,586.8	5.87	349.32	2,585.8	29.5	-5.6	-5.3	1.00	1.00	0.00
G26: Bell Cy									
2,600.0	6.00	349.32	2,598.9	30.8	-5.8	-5.5	1.00	1.00	0.00
2,628.0	6.28	349.32	2,626.8	33.8	-6.4	-6.0	1.00	1.00	0.00
	hold at 2628.0 N								
2,700.0	7.00	349.32	2,698.3	42.0	-7.9	-7.5	1.00	1.00	0.00
2,800.0	8.00	349.32	2,797.4	54.8	-10.3	-9.8	1.00	1.00	0.00
2,900.0	9.00	349.32	2,896.3	69.3	-13.1	-12.4	1.00	1.00	0.00
3,000.0	10.00	349.32	2,994.9	85.5	-16.1	-15.3	1.00	1.00	0.00
3,100.0	11.00	349.32	3,093.3	103.4	-19.5	-18.5	1.00	1.00	0.00
3,200.0	12.00	349.32	3,191.2	123.0	-23.2	-22.0	1.00	1.00	0.00
3,300.0	13.00	349.32	3,288.9	144.3	-27.2	-25.8	1.00	1.00	0.00
3,375.8	13.76	349.32	3,362.6	161.5	-30.5	-28.8	1.00	1.00	0.00
3,400.0	13.76	349.32	3,386.1	167.2	-31.5	-29.9	0.00	0.00	0.00
3,407.6	13.76	349.32	3,393.5	169.0	-31.9	-30.2	0.00	0.00	0.00
G26: Bell Cy	n.								
3,500.0	13.76	349.32	3,483.3	190.6	-35.9	-34.0	0.00	0.00	0.00
3,600.0	13.76	349.32	3,580.4	213.9	-40.3	-38.2	0.00	0.00	0.00

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COMPASS 5000.14 Build 83

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Michael Ryan Fed Com #223H
Company:	Matador Production Company	TVD Reference:	KB @ 3106.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3106.5usft
Site:	Michael Ryan	North Reference:	Grid
Well:	Michael Ryan Fed Com #223H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM 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)
3,700.0	13.76	349.32	3,677.5	237.3	-44.7	-42.4	0.00	0.00	0.00
3,800.0	13.76	349.32	3,774.6	260.7	-49.1	-46.6	0.00	0.00	0.00
3,900.0	13.76	349.32	3,871.8	284.0	-53.6	-50.7	0.00	0.00	0.00
4,000.0	13.76	349.32	3,968.9	307.4	-58.0	-54.9	0.00	0.00	0.00
4,000.0	13.76	349.32	4,066.0	330.8	-62.4	-59.1	0.00	0.00	0.00
4,200.0	13.76	349.32	4,163.2	354.2	-66.8	-63.2	0.00	0.00	0.00
4,300.0	13.76	349.32	4,260.3	377.5	-71.2	-67.4	0.00	0.00	0.00
4,400.0	13.76	349.32	4,357.4	400.9	-75.6	-71.6	0.00	0.00	0.00
4,500.0	13.76	349.32	4,454.6	424.3	-80.0	-75.8	0.00	0.00	0.00
4,600.0	13.76	349.32	4,551.7	447.6	-84.4	-79.9	0.00	0.00	0.00
4,642.3	13.76	349.32	4,592.8	457.5	-86.3	-81.7	0.00	0.00	0.00
G26: Bell Cy	'n.								
4,700.0	13.76	349.32	4,648.8	471.0	-88.8	-84.1	0.00	0.00	0.00
4,800.0	13.76	349.32	4,746.0	494.4	-93.2	-88.3	0.00	0.00	0.00
4,900.0	13.76	349.32	4,843.1	517.7	-97.6	-92.5	0.00	0.00	0.00
5,000.0	13.76	349.32	4,940.2	541.1	-102.0	-96.6	0.00	0.00	0.00
5,100.0	13.76	349.32	5,037.4	564.5	-106.4	-100.8	0.00	0.00	0.00
5,200.0	13.76	349.32	5,134.5	587.9	-110.8	-105.0	0.00	0.00	0.00
5,300.0	13.76	349.32	5,231.6	611.2	-115.2	-109.2	0.00	0.00	0.00
5,400.0	13.76	349.32	5,328.7	634.6	-119.7	-113.3	0.00	0.00	0.00
5,500.0	13.76	349.32	5,425.9	658.0	-124.1	-117.5	0.00	0.00	0.00
5,600.0	13.76	349.32	5,523.0	681.3	-128.5	-121.7	0.00	0.00	0.00
5,700.0	13.76	349.32	5,620.1	704.7	-132.9	-125.9	0.00	0.00	0.00
5,800.0	13.76	349.32	5,717.3	728.1	-137.3	-130.0	0.00	0.00	0.00
5,900.0	13.76	349.32	5,814.4	751.4	-141.7	-134.2	0.00	0.00	0.00
6,000.0	13.76	349.32	5,911.5	774.8	-146.1	-138.4	0.00	0.00	0.00
6,074.3	13.76	349.32	5,983.7	792.2	-149.4	-141.5	0.00	0.00	0.00
G4: BSGL (C	S9)								
6,100.0	13.76	349.32	6,008.7	798.2	-150.5	-142.5	0.00	0.00	0.00
6,200.0	13.76	349.32	6,105.8	821.6	-154.9	-146.7	0.00	0.00	0.00
6,300.0	13.76	349.32	6,202.9	844.9	-159.3	-150.9	0.00	0.00	0.00
6,400.0	13.76	349.32	6,300.1	868.3	-163.7	-155.1	0.00	0.00	0.00
6,446.8	13.76	349.32	6,345.5	879.2	-165.8	-157.0	0.00	0.00	0.00
L8.2: U. Ava		549.52	0,343.3	079.2	-105.5	-137.0	0.00	0.00	0.00
6,500.0	13.76	349.32	6,397.2	891.7	-168.1	-159.2	0.00	0.00	0.00
6,561.8	13.76	349.32	6,457.2	906.1	-170.8	-161.8	0.00	0.00	0.00
L6.3: Avalor									
6,600.0	13.76	349.32	6,494.3	915.0	-172.5	-163.4	0.00	0.00	0.00
6,662.3	13.76	349.32	6,554.9	929.6	-175.3	-166.0	0.00	0.00	0.00
L6.2: L. Ava								_	
		240.22	6 501 4	029 4	176.0	167.0	0.00	0.00	0.00
6,700.0 6,753.5	13.76 13.76	349.32 349.32	6,591.4 6,643.4	938.4 950.9	-176.9 -179.3	-167.6 -169.8	0.00 0.00	0.00 0.00	0.00 0.00
L5.3: FBSC	13.70	549.52	0,043.4	350.9	-179.3	-109.0	0.00	0.00	0.00
6,800.0	13.76	349.32	6,688.6	961.8	-181.3	-171.8	0.00	0.00	0.00
6,800.0 6,900.0		349.32	6,785.7	961.6 985.1	-185.7	-171.0	0.00		0.00
· ·	13.76 13.76							0.00	
7,000.0	13.76	349.32	6,882.8	1,008.5	-190.2	-180.1	0.00	0.00	0.00
7,100.0	13.76	349.32	6,980.0	1,031.9	-194.6	-184.3	0.00	0.00	0.00
7,136.0	13.76	349.32	7,014.9	1,040.3	-196.1	-185.8	0.00	0.00	0.00
L5.1: FBSG									
7,193.9	13.76	349.32	7,071.2	1,053.8	-198.7	-188.2	0.00	0.00	0.00
M. FBSG	40.70	0.40.00	7 077 4	4 655 0	100.0	100 5	0.00	0.00	0.00
7,200.0	13.76	349.32	7,077.1	1,055.2	-199.0	-188.5	0.00	0.00	0.00
7,300.0	13.76	349.32	7,174.2	1,078.6	-203.4	-192.6	0.00	0.00	0.00

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Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Michael Ryan Fed Com #223H
Company:	Matador Production Company	TVD Reference:	KB @ 3106.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3106.5usft
Site:	Michael Ryan	North Reference:	Grid
Well:	Michael Ryan Fed Com #223H	Survey Calculation Method:	Minimum Curvature
Wellbore: Design:	Wellbore #1 BLM Plan #1		

Planned Survey

7,344.4 L. FBSG 7,400.0 7,412.4 L4.3: SBSC 7,500.0 7,600.0 7,600.0 7,800.0 7,800.0 7,800.0 7,800.0 8,000.0 8,001.5 L4.1: SBSG B C 8,082.3 SBSG B Target 8,100.0	13.76	349.32 349.32 349.32 349.32 349.32 349.32 349.32 349.32 349.32 349.32 349.32 349.32	7,217.4 7,271.4 7,283.4 7,368.5 7,465.6 7,562.8 7,659.9 7,747.6 7,757.0 7,757.0 7,854.1 7,875.1	1,089.0 1,102.0 1,104.9 1,125.4 1,148.7 1,172.1 1,195.5 1,216.6 1,218.8 1,242.2	-205.3 -207.8 -208.3 -212.2 -216.6 -221.0 -225.4 -229.4 -229.8	-194.5 -196.8 -197.3 -201.0 -205.2 -209.3 -213.5 -217.3	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00
7,400.0 7,412.4 L4.3: SBSC 7,500.0 7,600.0 7,700.0 7,800.0 7,890.4 L4.1: SBSG 7,900.0 8,000.0 8,002.0 8,021.5 L4.1: SBSG B C 8,082.3 SBSG B Target	13.76 13.76 13.76 13.76 13.76 13.76 13.76 13.76 13.76 13.76 13.76 13.76	349.32 349.32 349.32 349.32 349.32 349.32 349.32 349.32 349.32 349.32	7,283.4 7,368.5 7,465.6 7,562.8 7,659.9 7,747.6 7,757.0 7,854.1	1,104.9 1,125.4 1,148.7 1,172.1 1,195.5 1,216.6 1,218.8 1,242.2	-208.3 -212.2 -216.6 -221.0 -225.4 -229.4 -229.8	-197.3 -201.0 -205.2 -209.3 -213.5 -217.3	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
7,412.4 L4.3: SBSC 7,500.0 7,600.0 7,700.0 7,800.0 7,890.4 L4.1: SBSG 7,900.0 8,000.0 8,021.5 L4.1: SBSG B C 8,082.3 SBSG B Target	13.76 13.76 13.76 13.76 13.76 13.76 13.76 13.76 13.76 13.76 13.76 13.76	349.32 349.32 349.32 349.32 349.32 349.32 349.32 349.32 349.32 349.32	7,283.4 7,368.5 7,465.6 7,562.8 7,659.9 7,747.6 7,757.0 7,854.1	1,104.9 1,125.4 1,148.7 1,172.1 1,195.5 1,216.6 1,218.8 1,242.2	-208.3 -212.2 -216.6 -221.0 -225.4 -229.4 -229.8	-197.3 -201.0 -205.2 -209.3 -213.5 -217.3	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00
7,412.4 L4.3: SBSC 7,500.0 7,600.0 7,700.0 7,800.0 7,890.4 L4.1: SBSG 7,900.0 8,000.0 8,021.5 L4.1: SBSG B C 8,082.3 SBSG B Target	13.76 13.76 13.76 13.76 13.76 13.76 13.76 13.76 13.76 13.76 13.76 13.76	349.32 349.32 349.32 349.32 349.32 349.32 349.32 349.32 349.32	7,283.4 7,368.5 7,465.6 7,562.8 7,659.9 7,747.6 7,757.0 7,854.1	1,104.9 1,125.4 1,148.7 1,172.1 1,195.5 1,216.6 1,218.8 1,242.2	-212.2 -216.6 -221.0 -225.4 -229.4 -229.8	-201.0 -205.2 -209.3 -213.5 -217.3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00
L4.3: SBSC 7,500.0 7,600.0 7,700.0 7,800.0 7,890.4 L4.1: SBSG 7,900.0 8,000.0 8,021.5 L4.1: SBSG B C 8,082.3 SBSG B Target	13.76 13.76 13.76 13.76 13.76 13.76 13.76 13.76 13.76 arb 13.76	349.32 349.32 349.32 349.32 349.32 349.32 349.32 349.32 349.32	7,368.5 7,465.6 7,562.8 7,659.9 7,747.6 7,757.0 7,854.1	1,125.4 1,148.7 1,172.1 1,195.5 1,216.6 1,218.8 1,242.2	-212.2 -216.6 -221.0 -225.4 -229.4 -229.8	-201.0 -205.2 -209.3 -213.5 -217.3	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
7,500.0 7,600.0 7,700.0 7,800.0 7,890.4 L4.1: SBSG 7,900.0 8,000.0 8,002.0 8,021.5 L4.1: SBSG B C 8,082.3 SBSG B Target	13.76 13.76 13.76 13.76 13.76 13.76 13.76 arb 13.76	349.32 349.32 349.32 349.32 349.32 349.32 349.32	7,465.6 7,562.8 7,659.9 7,747.6 7,757.0 7,854.1	1,148.7 1,172.1 1,195.5 1,216.6 1,218.8 1,242.2	-216.6 -221.0 -225.4 -229.4 -229.4	-205.2 -209.3 -213.5 -217.3	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
7,600.0 7,700.0 7,800.0 7,890.4 L4.1: SBSG 7,900.0 8,000.0 8,021.5 L4.1: SBSG B C 8,082.3 SBSG B Target	13.76 13.76 13.76 13.76 13.76 13.76 13.76 arb 13.76	349.32 349.32 349.32 349.32 349.32 349.32 349.32	7,465.6 7,562.8 7,659.9 7,747.6 7,757.0 7,854.1	1,148.7 1,172.1 1,195.5 1,216.6 1,218.8 1,242.2	-216.6 -221.0 -225.4 -229.4 -229.4	-205.2 -209.3 -213.5 -217.3	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
7,700.0 7,800.0 7,890.4 L4.1: SBSG 7,900.0 8,000.0 8,021.5 L4.1: SBSG B C 8,082.3 SBSG B Target	13.76 13.76 13.76 13.76 13.76 13.76 arb 13.76	349.32 349.32 349.32 349.32 349.32 349.32 349.32	7,562.8 7,659.9 7,747.6 7,757.0 7,854.1	1,172.1 1,195.5 1,216.6 1,218.8 1,242.2	-221.0 -225.4 -229.4 -229.8	-209.3 -213.5 -217.3	0.00 0.00	0.00 0.00	0.00
7,800.0 7,890.4 L4.1: SBSG 7,900.0 8,000.0 8,021.5 L4.1: SBSG B C 8,082.3 SBSG B Target	13.76 13.76 13.76 13.76 13.76 13.76 arb 13.76	349.32 349.32 349.32 349.32 349.32	7,659.9 7,747.6 7,757.0 7,854.1	1,195.5 1,216.6 1,218.8 1,242.2	-225.4 -229.4 -229.8	-213.5 -217.3	0.00	0.00	0.00
7,890.4 L4.1: SBSG 7,900.0 8,000.0 8,021.5 L4.1: SBSG B C 8,082.3 SBSG B Target	13.76 13.76 13.76 13.76 arb 13.76	349.32 349.32 349.32 349.32	7,747.6 7,757.0 7,854.1	1,216.6 1,218.8 1,242.2	-229.4 -229.8	-217.3			
L4.1: SBSG 7,900.0 8,000.0 8,021.5 L4.1: SBSG B C 8,082.3 SBSG B Target	13.76 13.76 13.76 arb 13.76	349.32 349.32 349.32	7,757.0 7,854.1	1,218.8 1,242.2	-229.8		0.00	0.00	0.00
7,900.0 8,000.0 8,021.5 L4.1: SBSG B C 8,082.3 SBSG B Target	13.76 13.76 arb 13.76	349.32 349.32	7,854.1	1,242.2					
8,000.0 8,021.5 L4.1: SBSG B C 8,082.3 SBSG B Target	13.76 13.76 arb 13.76	349.32 349.32	7,854.1	1,242.2					
8,021.5 L4.1: SBSG B C 8,082.3 SBSG B Target	13.76 arb 13.76	349.32				-217.7	0.00	0.00	0.00
L4.1: SBSG B C 8,082.3 SBSG B Target	arb 13.76		7,875.1		-234.2	-221.8	0.00	0.00	0.0
L4.1: SBSG B C 8,082.3 SBSG B Target	arb 13.76		7,070.1	1,247.2	-235.2	-222.7	0.00	0.00	0.00
8,082.3 SBSG B Target	13.76	240.00		1,271.2	200.2	<i>LLL</i> .1	0.00	0.00	0.00
SBSG B Target			7,934,1	1,261.4	-237.8	-225.3	0.00	0.00	0.00
	10.70	349.32	1,934.1	1,201.4	-237.0	-220.3	0.00	0.00	0.00
8,100.0									
0 400 5	13.76	349.32	7,951.3	1,265.6	-238.6	-226.0	0.00	0.00	0.0
8,189.5	13.76	349.32	8,038.2	1,286.5	-242.6	-229.8	0.00	0.00	0.0
L4.1: SBSG C									
8,200.0	13.76	349.32	8,048.4	1,288.9	-243.0	-230.2	0.00	0.00	0.0
8,229.0	13.76	349.32	8,076.6	1,295.7	-244.3	-231.4	0.00	0.00	0.0
L3.3: TBSC		0.0002	0,01010	.,	2		0.00	0.00	0.0
8,300.0	13.76	349.32	8,145.5	1,312.3	-247.4	-234.4	0.00	0.00	0.0
8,351.5	13.76	349.32	8,195.6	1,312.3	-249.7	-234.4	0.00	0.00	0.0
8,400.0	13.03	349.32	8,242.7	1,335.4	-251.8	-238.5	1.50	-1.50	0.0
8,500.0	11.53	349.32	8,340.5	1,356.3	-255.7	-242.2	1.50	-1.50	0.0
·									
8,600.0	10.03	349.32	8,438.7	1,374.7	-259.2	-245.5	1.50	-1.50	0.0
8,651.9	9.25	349.32	8,489.8	1,383.2	-260.8	-247.0	1.50	-1.50	0.0
L3.3.2: Break Sa	and (T)								
8,700.0	8.53	349.32	8,537.4	1,390.5	-262.2	-248.3	1.50	-1.50	0.0
8,783.0	7.29	349.32	8,619.6	1,401.7	-264.3	-250.3	1.50	-1.50	0.0
Start Drop -1.50									
8,800.0	7.03	349.32	8,636.5	1,403.8	-264.7	-250.7	1.50	-1.50	0.0
8,900.0	5.53	349.32	8,735.8	1.414.6	-266.7	-252.6	1.50	-1.50	0.0
8,900.0 9,000.0	5.53 4.03	349.32 349.32	8,835.5	,	-268.3	-252.6 -254.1	1.50	-1.50 -1.50	0.0
9,000.0 9,100.0	4.03 2.53	349.32 349.32	8,935.3	1,422.8 1,428.4	-268.3	-254.1	1.50	-1.50	0.0
9,164.8	2.55	349.32 349.32	9,000.1	1,420.4	-269.3	-255.5	1.50	-1.50	0.0
	1.00	543.52	3,000.1	1,430.7	-203.7	-200.0	1.50	-1.50	0.0
L3.1: TBSG	4.00	240.00	0.005.0	1 404 4	200.0	055.0	4.50	4 50	0.00
9,200.0	1.03	349.32	9,035.3	1,431.4	-269.9	-255.6	1.50	-1.50	0.0
9,268.7	0.00	0.00	9,104.0	1,432.1	-270.0	-255.8	1.50	-1.50	0.0
9,300.0	0.00	0.00	9,135.3	1,432.1	-270.0	-255.8	0.00	0.00	0.0
9,400.0	0.00	0.00	9,235.3	1,432.1	-270.0	-255.8	0.00	0.00	0.0
9,444.1	0.00	0.00	9,279.4	1,432.1	-270.0	-255.8	0.00	0.00	0.0
L. TBSG									
9,483.1	0.00	0.00	9,318.4	1,432.1	-270.0	-255.8	0.00	0.00	0.0
L2: WFMP A									
9,500.0	0.00	0.00	9,335.3	1,432.1	-270.0	-255.8	0.00	0.00	0.0
9,535.0	0.00	0.00	9,370.3	1,432.1	-270.0	-255.8	0.00	0.00	0.0
Start Build 10.00	0								
9,568.7	0.00	0.00	9,404.0	1,432.1	-270.0	-255.8	0.00	0.00	0.0
VP - Michael Ry	an Fed Com #2	223H							
9,600.0	3.13	78.40	9,435.3	1,432.2	-269.2	-254.9	10.00	10.00	0.0

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Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Michael Ryan Fed Com #223H
Company:	Matador Production Company	TVD Reference:	KB @ 3106.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3106.5usft
Site:	Michael Ryan	North Reference:	Grid
Well:	Michael Ryan Fed Com #223H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM 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)
9,622.0	5.32	78.40	9,457.2	1,432.5	-267.6	-253.3	10.00	10.00	0.00
WFMP A Fat	:								
9,650.0 9,700.0 9,750.0	8.13 13.13 18.13	78.40 78.40 78.40	9,485.0 9,534.1 9,582.3	1,433.2 1,435.1 1,437.8	-264.4 -255.3 -242.2	-250.1 -241.1 -227.8	10.00 10.00 10.00	10.00 10.00 10.00	0.00 0.00 0.00
9,800.0 9,850.0	23.13 28.13	78.40 78.40 78.40	9,629.0 9,674.1	1,441.3 1,445.7	-224.9 -203.7	-210.6 -189.3	10.00 10.00 10.00	10.00 10.00 10.00	0.00
9,900.0 9,904.9	33.13 33.61	78.40 78.40	9,717.1 9,721.2	1,450.8 1,451.3	-178.8 -176.2	-164.3 -161.7	10.00 10.00	10.00 10.00	0.00 0.00
WFMP B	00.40	70.40	0 757 0	4 450 0	450.0	405.0	40.00	40.00	0.00
9,950.0 10,000.0 10,050.0	38.13 43.13 48.13	78.40 78.40 78.40	9,757.8 9,795.7 9,830.6	1,456.6 1,463.2 1,470.4	-150.3 -118.4 -83.4	-135.8 -103.8 -68.7	10.00 10.00 10.00	10.00 10.00 10.00	0.00 0.00 0.00
10,100.0 10,104.4	53.13 53.57	78.40 78.40	9,862.4 9,865.0	1,478.1 1,478.8	-45.5 -42.0	-30.8 -27.3	10.00 10.00	10.00 10.00	0.00 0.00
WFMP B.1									
10,150.0 10,195.8	58.13 62.71	78.40 78.40	9,890.6 9,913.2	1,486.4 1,494.4	-5.1 33.9	9.7 48.7	10.00 10.00	10.00 10.00	0.00 0.00
FTP - Micha 10,200.0	el Ryan Fed Con 63.13	n #223H 78.40	9,915.1	1,495.2	37.6	52.4	10.00	10.00	0.00
,			,						
10,250.0	68.13	78.40	9,935.7	1,504.3	82.2	97.1	10.00	10.00	0.00
10,300.0 10,350.0	73.13 78.13	78.40 78.40	9,952.3 9,964.7	1,513.8 1,523.6	128.3 175.8	143.4 190.9	10.00 10.00	10.00 10.00	0.00 0.00
10,358.7	79.00	78.40	9,966.4	1,525.3	184.2	199.3	10.00	10.00	0.00
WFMP B.2			-,	.,					
10,400.0	83.13	78.40	9,972.8	1,533.5	224.1	239.3	10.00	10.00	0.00
10,419.1	85.04	78.40	9,974.8	1,537.3	242.7	258.0	10.00	10.00	0.00
Start DLS 2.	00 TFO 90.10		,	,					
10,452.8	88.41	78.40	9,976.7	1,544.1	275.7	291.0	10.00	10.00	0.00
10,500.0	88.41	79.34	9,978.0	1,553.2	321.9	337.4	2.00	-0.01	2.00
10,600.0	88.40	81.34	9,980.8	1,569.9	420.5	436.1	2.00	-0.01	2.00
10,700.0	88.39	83.35	9,983.6	1,583.2	519.5	535.3	2.00	0.00	2.00
10,800.0	88.39	85.35	9,986.4	1,593.1	619.0	634.8	2.00	0.00	2.00
10,830.3	88.39	85.95	9,987.3	1,595.4	649.2	665.0	2.00	0.00	2.00
	hold at 10830.3								
10,900.0	88 <u>.</u> 39	87.35	9,989.2	1,599.5	718.8	734.6	2.00	0.00	2.00
11,000.0 11,062.5	88.39 88.39	89.35 90.60	9,992.1 9,993.8	1,602.3 1,602.4	818.7 881.2	834.6 897.1	2.00 2.00	0.00 0.00	2.00 2.00
11,100.0	88.39	90.60	9,994.9	1,602.0	918.6	934.5	0.00	0.00	0.00
11,200.0	88.39	90.60	9,997.7	1,600.9	1,018.6	1,034.5	0.00	0.00	0.00
11,300.0	88.39	90.60	10,000.5	1,599.9	1,118.6	1,134.4	0.00	0.00	0.00
11,400.0	88.39	90.60	10,003.3	1,598.8	1,218.5	1,234.4	0.00	0.00	0.00
11,500.0	88.39	90.60	10,006.1	1,597.8	1,318.5	1,334.3	0.00	0.00	0.00
11,600.0	88.39	90.60	10,008.9	1,596.8	1,418.4	1,434.2	0.00	0.00	0.00
11,700.0	88.39	90.60	10,011.7	1,595.7	1,518.4	1,534.2	0.00	0.00	0.00
11,800.0	88.39	90.60	10,014.5	1,594.7	1,618.3	1,634.1	0.00	0.00	0.00
11,900.0	88.39	90.60	10,017.3	1,593.6	1,718.3	1,734.1	0.00	0.00	0.00
12,000.0	88.39	90.60	10,020.1	1,592.6	1,818.2	1,834.0	0.00	0.00	0.00
12,100.0	88.39	90.60	10,022.9	1,591.5	1,918.2	1,933.9	0.00	0.00	0.00
12,200.0	88.39	90.60	10,025.7	1,590.5	2,018.1	2,033.9	0.00	0.00	0.00
12,300.0	88.39	90.60	10,028.5	1,589.4	2,118.1	2,133.8	0.00	0.00	0.00
12,400.0	88.39	90.60	10,031.3	1,588.4	2,218.1	2,233.8	0.00	0.00	0.00
12,500.0	88.39	90.60	10,034.1	1,587.4	2,318.0	2,333.7	0.00	0.00	0.00

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COMPASS 5000.14 Build 83

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Michael Ryan Fed Com #223H
Company:	Matador Production Company	TVD Reference:	KB @ 3106.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3106.5usft
Site:	Michael Ryan	North Reference:	Grid
Well:	Michael Ryan Fed Com #223H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1	-	
Design:	BLM 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)
12,600.0	88.39	90.60	10,036.9	1,586.3	2,418.0	2,433.6	0.00	0.00	0.00
12,700.0	88.39	90.60	10,039.7	1,585.3	2,517.9	2,533.6	0.00	0.00	0.00
12,800.0		90.60	10,042.5	1,584.2	2,617.9	2,633.5	0.00	0.00	0.00
12,900.0		90.60	10,045.3	1,583.2	2,717.8	2,733.5	0.00	0.00	0.00
13,000.0		90.60	10,048.1	1,582.1	2,817.8	2,833.4	0.00	0.00	0.00
13,100.0	88.39	90.60	10,050.9	1,581.1	2,917.7	2,933.3	0.00	0.00	0.00
13,200.0		90.60	10,053.7	1,580.0	3,017.7	3,033.3	0.00	0.00	0.00
13,300.0		90.60	10,056.5	1,579.0	3,117.7	3,133.2	0.00	0.00	0.00
13,400.0		90.60	10,059.3	1,578.0	3,217.6	3,233.1	0.00	0.00	0.00
13,500.0	88.39	90.60	10,062.1	1,576.9	3,317.6	3,333.1	0.00	0.00	0.00
13,600.0		90.60	10,064.9	1,575.9	3,417.5	3,433.0	0.00	0.00	0.00
13,700.0		90.60	10,067.8	1,574.8	3,517.5	3,533.0	0.00	0.00	0.00
13,800.0	88.39	90.60	10,070.6	1,573.8	3,617.4	3,632.9	0.00	0.00	0.00
13,900.0	88.39	90.60	10,073.4	1,572.7	3,717.4	3,732.8	0.00	0.00	0.00
14,000.0	88.39	90.60	10,076.2	1,571.7	3,817.3	3,832.8	0.00	0.00	0.00
14,100.0	88.39	90.60	10,079.0	1,570.6	3,917.3	3,932.7	0.00	0.00	0.00
14,200.0		90.60	10,081.8	1,569.6	4.017.3	4,032.7	0.00	0.00	0.00
14,200.0		90.60	10,084.6	1,568.5	4,017.3	4,032.7	0.00	0.00	0.00
14,300.0		90.60	10,084.8	1,566.5	4,117.2	4,132.6	0.00	0.00	0.00
14,400.0		90.60	10,087.4	1,567.5	4,217.2	4,232.5 4,332.5	0.00	0.00	0.00
14,600.0		90.60	10,093.0	1,565.4	4,417.1	4,432.4	0.00	0.00	0.00
14,700.0		90.60	10,095.8	1,564.4	4,517.0	4,532.4	0.00	0.00	0.00
14,800.0		90.60	10,098.6	1,563.3	4,617.0	4,632.3	0.00	0.00	0.00
14,000.0		90.60	10,101.4	1,562.3	4,716.9	4,032.3	0.00	0.00	0.00
15,000.0		90.60	10,104.2	1,561.2	4,816.9	4,832.2	0.00	0.00	0.00
15,100.0	88.39	90.60	10,107.0	1,560.2	4,916.9	4,932.1	0.00	0.00	0.00
15,200.0		90.60	10,109.8	1,559.1	5,016.8	5,032.1	0.00	0.00	0.00
15,300.0		90.60	10,112.6	1,558.1	5,116.8	5,132.0	0.00	0.00	0.00
15,400.0		90.60	10,115.4	1,557.1	5,216.7	5,231.9	0.00	0.00	0.00
15,500.0	88.39	90.60	10,118.2	1,556.0	5,316.7	5,331.9	0.00	0.00	0.00
15,600.0	88.39	90.60	10,121.0	1,555.0	5,416.6	5,431.8	0.00	0.00	0.00
15,700.0	88.39	90.60	10,123.8	1,553.9	5,516.6	5,531.8	0.00	0.00	0.00
15,800.0		90.60	10,126.6	1,552.9	5,616.5	5,631.7	0.00	0.00	0.00
15,900.0		90.60	10,129.4	1,551.8	5,716.5	5,731.6	0.00	0.00	0.00
16,000.0		90.60	10,132.2	1,550.8	5,816.4	5,831.6	0.00	0.00	0.00
16,100.0	88.39	90.60	10,135.0	1,549.7	5,916.4	5,931.5	0.00	0.00	0.00
16,200.0		90.60	10,137.8	1,548.7	6,016.4	6,031.5	0.00	0.00	0.00
16,300.0		90.60	10,140.6	1,547.6	6,116.3	6,131.4	0.00	0.00	0.00
16,400.0		90.60	10,143.5	1,546.6	6,216.3	6,231.3	0.00	0.00	0.00
16,500.0		90.60	10,145.5	1,545.6	6,316.2	6,331.3	0.00	0.00	0.00
16,600.0		90.60	10,149,1	1,544.5	6,416.2	6,431.2	0.00	0.00	0.00
		90.60					0.00	0.00	0.00
16,700.0 16,800.0		90.60	10,151.9 10,154.7	1,543.5 1,542.4	6,516.1 6,616.1	6,531.2 6,631.1	0.00	0.00	0.00
16,900.0		90.60	10,154.7	1,542.4	6,716.0	6,731.0	0.00	0.00	0.00
17,000.0		90.60	10,157.5			6,831.0		0.00	
· · · · · ·				1,540.3	6,816.0		0.00		0.00
17,100.0		90.60	10,163.1	1,539.3	6,916.0	6,930.9	0.00	0.00	0.00
17,200.0		90.60	10,165.9	1,538.2	7,015.9	7,030.9	0.00	0.00	0.00
17,300.0		90.60	10,168.7	1,537.2	7,115.9	7,130.8	0.00	0.00	0.00
17,400.0	88.39	90.60	10,171.5	1,536.2	7,215.8	7,230.7	0.00	0.00	0.00
17,500.0	88.39	90.60	10,174.3	1,535.1	7,315.8	7,330.7	0.00	0.00	0.00
17,600.0		90.60	10,177.1	1,534.1	7,415.7	7,430.6	0.00	0.00	0.00
17,700.0		90.60	10,179.9	1,533.0	7,515.7	7,530.6	0.00	0.00	0.00
17,800.0		90.60	10,182.7	1,532.0	7,615.6	7,630.5	0.00	0.00	0.00
17,900.0	88.39	90.60	10,185.5	1,530.9	7,715.6	7,730.4	0.00	0.00	0.00
17,900.0	88.39	90.60	10,185.5	1,530.9	7,715.6	7,730.4	0.00	0.00	0.00

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Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Michael Ryan Fed Com #223H
Company:	Matador Production Company	TVD Reference:	KB @ 3106.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3106.5usft
Site:	Michael Ryan	North Reference:	Grid
Well:	Michael Ryan Fed Com #223H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM 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)
18,000.0	88.39	90.60	10,188.3	1,529.9	7,815.6	7,830.4	0.00	0.00	0.00
18,100.0	88.39	90.60	10,191.1	1,528.8	7,915.5	7,930.3	0.00	0.00	0.00
18,200.0	88.39	90.60	10,193.9	1,527.8	8,015.5	8,030.3	0.00	0.00	0.00
18,300.0	88.39	90.60	10,196.7	1,526.8	8,115.4	8,130.2	0.00	0.00	0.00
18,400.0	88.39	90.60	10,199.5	1,525.7	8,215.4	8,230.1	0.00	0.00	0.00
18,500.0	88.39	90.60	10,202.3	1,524.7	8,315.3	8,330.1	0.00	0.00	0.00
18,600.0	88.39	90.60	10,205.1	1,523.6	8,415.3	8,430.0	0.00	0.00	0.00
18,700.0	88.39	90.60	10,207.9	1,522.6	8,515.2	8,530.0	0.00	0.00	0.00
18,800.0	88.39	90.60	10,210.7	1,521.5	8,615.2	8,629.9	0.00	0.00	0.00
18,859.3	88.39	90.60	10,212.4	1,520.9	8,674.5	8,689.2	0.00	0.00	0.00

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 - Michael Ryan Fed (- plan hits target cent - Point	0.00 ter	0.00	9,404.0	1,432.1	-270.0	505,932.00	571,818.00	32° 23' 26.545 N	104° 6' 2.400 W
FTP - Michael Ryan Fed - plan misses target o - Point	0.00 center by 92.4	0.00 usft at 10195	9,977.0 5.8usft MD (1,432.0 (9913.2 TVD, 1	10.0 494.4 N, 33.9	505,932.00 E)	572,098.00	32° 23' 26.539 N	104° 5' 59.134 W
BHL - Michael Ryan Fed - plan hits target cent - Point	0.00 ter	0.00	10,212.4	1,520.9	8,674.5	506,021.00	580,763.00	32° 23' 27.221 N	104° 4' 18.075 W

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Michael Ryan Fed Com #223H
Company:	Matador Production Company	TVD Reference:	KB @ 3106.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3106.5usft
Site:	Michael Ryan	North Reference:	Grid
Well:	Michael Ryan Fed Com #223H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
172.1	172.1	Rustler	Ennology	1.59	89.43	
411.2		Salado		1.59	89.43	
943.4		Castile (T)		1.59	89.43	
2,514.7		G30:CS14-CSB		1.59	89.43	
2,586.8	2,585.8	G26: Bell Cyn.		1.59	89.43	
3,407.6	3,393.5	G26: Bell Cyn.		1.59	89.43	
4,642.3		G26: Bell Cyn.		1.59	89.43	
6,074.3	5,983.7	G4: BSGL (CS9)		1.59	89.43	
6,446.8	6,345.5	L8.2: U. Avalon Shale		1.59	89.43	
6,561.8	6,457.2	L6.3: Avalon Carb		1.59	89.43	
6,662.3	6,554.9	L6.2: L. Avalon Shale		1.59	89.43	
6,753.5	6,643.4	L5.3: FBSC		1.59	89.43	
7,136.0	7,014.9	L5.1: FBSG		1.59	89.43	
7,193.9	7,071.2	M. FBSG		1.59	89.43	
7,344.4	7,217.4	L. FBSG		1.59	89.43	
7,412.4	7,283.4	L4.3: SBSC		1.59	89.43	
7,890.4	7,747.6	L4.1: SBSG		1.59	89.43	
8,021.5	7,875.1	L4.1: SBSG B Carb		1.59	89.43	
8,082.3	7,934.1	SBSG B Target		1.59	89.43	
8,189.5	8,038.2	L4.1: SBSG C		1.59	89.43	
8,229.0	8,076.6	L3.3: TBSC		1.59	89.43	
8,651.9	8,489.8	L3.3.2: Break Sand (T)		1.59	89.43	
9,164.8	9,000.1	L3.1: TBSG		1.59	89.43	
9,444.1	9,279.4	L. TBSG		1.59	89.43	
9,483.1	9,318.4	L2: WFMP A		1.59	89.43	
9,622.0	9,457.2	WFMP A Fat		1.59	89.43	
9,904.9	9,721.2	WFMP B		1.59	89.43	
10,104.4	9,865.0	WFMP B.1		1.59	89.43	
10,358.7	9,966.4	WFMP B.2		1.59	89.43	

Measured	Vertical	Local Coor	dinates	
Depth	Depth	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	Comment
1,500.0	1,500.0	0.0	0.0	Start Build 1.00
2,628.0	2,626.8	33.8	-6.4	Start 6155.0 hold at 2628.0 MD
8,783.0	8,619.7	1,401.2	-264.2	Start Drop -1.50
9,535.0	9,370.4	1,431.5	-269.9	Start Build 10.00
10,419.1	9,974.8	1,536.7	243.0	Start DLS 2.00 TFO 90.10
10,830.3	9,987.3	1,594.8	649.4	Start 8089.2 hold at 10830.3 MD
18,919.5				TD at 18919.5

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