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 341707

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

1. Operator Name and Address	2. OGRID Number
MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	228937
	3. API Number 30-015-53881

4. Property Code	5. Property Name	6. Well No.
330294	KEN WILSON 14 15	132H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
A	14	24S	28E		538	N	300	E	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
E	15	24S	28E	E	1980	N	110	W	Eddy

9. Pool Information

MALAGA;BONE SPRING	42780

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	2977
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	19211	3rd Bone Spring Carbonate		12/18/2023
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	605	525	0
Int1	9.875	7.625	29.7	8211	1350	0
Prod	6.75	5.5	20	19211	820	8011

Casing/Cement Program: Additional Comments

Option to drill surface hole with surface setting rig. Option to set DV/Packer. Volumes will be adjusted for 2 stage job.

22. Proposed Blowout Prevention Program

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

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. **I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.** Signature:		**OIL CONSERVATION DIVISION**	
Printed Name:	Electronically filed by Brett A Jennings	Approved By:	Ward Rikala
Title:	Regulatory Analyst	Title:	
Email Address:	brett.jennings@matadorresources.com	Approved Date:	6/14/2023 Expiration Date: 6/14/2025
Date:	6/8/2023 Phone: 972-629-2160	Conditions of Approval Attached	

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-102
August 1, 2011

Permit 341707

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-015-53881	42780	MALAGA;BONE SPRING
4. Property Code	**5. Property Name**	**6. Well No.**
330294	KEN WILSON 14 15	132H
7. OGRID No.	**8. Operator Name**	**9. Elevation**
228937	MATADOR PRODUCTION COMPANY	2977

10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
A	14	24S	28E		538	N	300	E	Eddy

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County

12. Dedicated Acres	13. Joint or Infill	14. Consolidation Code	15. Order No.
320.00			

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

OPERATOR CERTIFICATION

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

E-Signed By: Brett A Jennings
Title: Regulatory Analyst
Date: 6/8/2023

SURVEYOR CERTIFICATION

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

Surveyed By: Michael Brown
Date of Survey: 12/8/2022
Certificate Number: 18329

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 APD Conditions

Permit 341707

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	30-015-53881
	Well: KEN WILSON 14 15 #132H

OCD Reviewer	Condition
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 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	Cement is required to circulate on both surface and intermediate1 strings of casing
ward.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

Addendum to Natural Gas Management Plan for Matador's

Bubba Burton 131H and Ken Wilson 132H

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
Bubba Burton 131H	1,920	4,211	6,000
Ken Wilson 132H	1,920	4,211	6,000

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: Matador Production Company OGRID: 228937 Date: 05/02/2023

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Bubba Burton 131H	TBD	A 14-24S-28E	539' FNL 330' FEL	1,920	4,211	6,000
Ken Wilson 132H	TBD	A 14-24S-28E	538' FNL 300' FEL	1,920	4,211	6,000

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

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Bubba Burton 131H	TBD	12/02/2023	01/02/2024	02/02/2024	03/01/2024	03/02/2024
Ken Wilson 132H	TBD	12/18/2023	01/18/2024	02/02/2024	03/01/2024	03/02/2024

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐does ☐does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:
☒Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. ***If Operator checks this box, Operator will select one of the following:***

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

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

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

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

Signature:
Printed Name: Omar Enriquez
Title: Sr. Production Engineer
E-mail Address: oenriquez@matadorresources.com
Date: 05/02/2023
Phone: (972) 857-4638
OIL CONSERVATION DIVISION **(Only applicable when submitted as a standalone form)**
Approved By:
Title:
Approval Date:
Conditions of Approval:

Matador Production Company

Rustler Breaks
Ken Wilson
Ken Wilson #132H

Wellbore #1
State Plan #1

Anticollision Report

09 May, 2023

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Ken Wilson #132H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3005.5usft
Reference Site:	Ken Wilson	**MD Reference:**	KB @ 3005.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Ken Wilson #132H	**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:	State Plan #1	**Offset TVD Reference:**	Offset Datum

Reference	State 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 Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 5/9/2023

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	19,211.7	State Plan #1 (Wellbore #1)	MWD	OWSG MWD - Standard

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Anne Com						
Anne Com #202H - Wellbore #1 - Actual	19,211.7	8,818.2	351.1	64.8	1.226	Level 2, CC, ES, SF
Anne Com #222H - Wellbore #1 - Actual	19,211.7	8,836.6	218.7	-59.1	0.787	Level 1, CC, ES, SF
Harrold Melton						
Harrold Melton Fed Com #112H - Wellbore #1 - BLM Pla	7,195.5	7,094.5	204.6	150.4	3.777	CC
Harrold Melton Fed Com #112H - Wellbore #1 - BLM Pla	7,200.0	7,097.8	204.6	150.4	3.774	ES, SF
Harrold Melton Fed Com #132H - Wellbore #1 - BLM Pla	7,698.1	7,563.5	320.7	263.9	5.646	CC
Harrold Melton Fed Com #132H - Wellbore #1 - BLM Pla	7,700.0	7,565.4	320.7	263.9	5.645	ES
Harrold Melton Fed Com #132H - Wellbore #1 - BLM Pla	8,000.0	7,878.7	329.7	270.8	5.594	SF
Janie Conner						
Janie Conner #124H - Wellbore #1 - Final Survey	8,142.4	7,874.0	2,919.8	2,862.0	50.467	CC, ES
Janie Conner #124H - Wellbore #1 - Final Survey	10,600.0	8,008.0	3,700.4	3,619.0	45.456	SF
Janie Conner #201H - Wellbore #1 - Wellbore #1	682.2	681.6	151.9	147.5	34.386	CC
Janie Conner #201H - Wellbore #1 - Wellbore #1	700.0	698.4	151.9	147.4	33.499	ES
Janie Conner #201H - Wellbore #1 - Wellbore #1	1,400.0	1,394.1	192.3	182.9	20.393	SF
Janie Conner #202H - Wellbore #1 - Final Survey	9,030.3	8,683.2	230.4	167.8	3.685	CC, ES, SF
Janie Conner #203H - Wellbore #1 - Final Survey	8,120.9	7,980.8	1,047.8	989.3	17.917	CC, ES
Janie Conner #203H - Wellbore #1 - Final Survey	8,800.0	8,629.5	1,065.3	1,003.3	17.196	SF
Janie Conner #204H - Wellbore #1 - Final Survey	8,284.5	8,114.9	2,932.0	2,873.2	49.865	CC
Janie Conner #204H - Wellbore #1 - Final Survey	8,300.0	8,121.8	2,932.1	2,873.2	49.791	ES
Janie Conner #204H - Wellbore #1 - Final Survey	10,700.0	8,830.0	3,605.3	3,519.4	41.968	SF
Janie Conner #207H - Wellbore #1 - Wellbore #1	8,704.3	8,510.6	2,085.3	2,024.0	34.019	CC, ES
Janie Conner #207H - Wellbore #1 - Wellbore #1	10,600.0	10,600.0	2,772.9	2,683.3	30.945	SF
Janie Conner #221H - Sidetrack #1 - Sidetrack #1	959.8	959.7	139.1	132.7	21.728	CC, ES
Janie Conner #221H - Sidetrack #1 - Sidetrack #1	1,300.0	1,289.3	163.0	154.3	18.768	SF
Janie Conner #221H - Wellbore #1 - Wellbore #1	959.8	959.7	139.1	132.7	21.728	CC, ES
Janie Conner #221H - Wellbore #1 - Wellbore #1	1,300.0	1,289.3	163.0	154.3	18.768	SF
Janie Conner #222H - Wellbore #1 - Final Survey	8,909.8	8,632.1	128.7	66.8	2.080	CC, ES, SF
Janie Conner #223H - Wellbore #1 - Final Survey	8,848.0	8,665.7	1,443.8	1,381.7	23.266	CC
Janie Conner #223H - Wellbore #1 - Final Survey	8,850.0	8,667.0	1,443.8	1,381.7	23.263	ES
Janie Conner #223H - Wellbore #1 - Final Survey	9,211.6	8,790.1	1,487.0	1,422.1	22.929	SF
Janie Conner #224H - Wellbore #1 - Final Survey	8,220.6	8,005.7	2,801.3	2,743.0	48.065	CC
Janie Conner #224H - Wellbore #1 - Final Survey	8,311.6	8,311.6	2,802.2	2,742.5	46.996	ES
Janie Conner #224H - Wellbore #1 - Final Survey	10,500.0	8,657.7	3,382.1	3,299.3	40.876	SF

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Ken Wilson #132H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3005.5usft
Reference Site:	Ken Wilson	**MD Reference:**	KB @ 3005.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Ken Wilson #132H	**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:	State Plan #1	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Ken Wilson						
Ken Wilson #112H - Wellbore #1 - State Plan #1	7,196.2	7,042.2	114.6	61.9	2.174	CC
Ken Wilson #112H - Wellbore #1 - State Plan #1	7,200.0	7,045.1	114.7	61.9	2.173	ES, SF
Ken Wilson #122H - Wellbore #1 - State Plan #1	8,015.5	7,856.4	62.8	3.6	1.061	Level 2, CC, ES, SF
Tiger						
Tiger #124H - Wellbore #1 - Final Survey	8,089.8	7,778.4	2,913.5	2,856.0	50.648	CC
Tiger #124H - Wellbore #1 - Final Survey	13,900.0	12,975.0	2,924.7	2,678.0	11.855	ES
Tiger #124H - Wellbore #1 - Final Survey	14,300.0	12,975.0	2,969.1	2,715.1	11.689	SF
Tiger #201H - Sidetrack #1 - Sidetrack #1	1,281.2	1,286.1	101.1	92.6	11.940	CC
Tiger #201H - Sidetrack #1 - Sidetrack #1	1,300.0	1,305.2	101.1	92.5	11.768	ES
Tiger #201H - Sidetrack #1 - Sidetrack #1	14,000.0	14,650.0	1,893.9	1,663.9	8.233	SF
Tiger #201H - Wellbore #1 - Wellbore #1	1,281.2	1,286.1	101.1	92.6	11.940	CC
Tiger #201H - Wellbore #1 - Wellbore #1	1,300.0	1,305.2	101.1	92.5	11.768	ES
Tiger #201H - Wellbore #1 - Wellbore #1	1,500.0	1,506.4	111.3	101.4	11.175	SF
Tiger #202H - Wellbore #1 - Final Survey	6,166.2	6,038.8	215.0	166.4	4.424	CC
Tiger #202H - Wellbore #1 - Final Survey	6,200.0	6,072.5	215.1	166.1	4.390	ES
Tiger #202H - Wellbore #1 - Final Survey	6,500.0	6,376.2	221.0	168.9	4.247	SF
Tiger #204H - Wellbore #1 - Final Survey	8,575.7	8,465.0	2,631.5	2,570.8	43.360	CC
Tiger #204H - Wellbore #1 - Final Survey	13,800.0	14,463.0	2,715.9	2,476.2	11.333	ES
Tiger #204H - Wellbore #1 - Final Survey	14,200.0	14,463.0	2,749.3	2,502.2	11.125	SF
Tiger #221H - Wellbore #1 - Wellbore #1	0.0	0.1	109.4			
Tiger #221H - Wellbore #1 - Wellbore #1	1,230.2	1,232.2	109.9	101.7	13.349	ES
Tiger #221H - Wellbore #1 - Wellbore #1	1,400.0	1,402.4	116.5	107.1	12.372	SF
Tiger #222H - Wellbore #1 - Final Survey	7,179.4	7,041.4	215.4	157.6	3.726	CC
Tiger #222H - Wellbore #1 - Final Survey	7,200.0	7,061.4	215.5	157.5	3.716	ES
Tiger #222H - Wellbore #1 - Final Survey	7,300.0	7,158.3	217.4	158.7	3.702	SF
Tiger #224H - Wellbore #1 - Final Survey	8,307.4	8,158.8	2,980.0	2,921.0	50.491	CC
Tiger #224H - Wellbore #1 - Final Survey	8,400.0	8,242.3	2,980.3	2,920.7	50.011	ES
Tiger #224H - Wellbore #1 - Final Survey	14,300.0	15,334.0	3,409.4	3,181.6	14.970	SF
Tiger #227H - Wellbore #1 - Final Survey	8,426.1	8,301.9	2,251.9	2,192.1	37.614	CC
Tiger #227H - Wellbore #1 - Final Survey	8,450.0	8,319.1	2,252.0	2,192.0	37.530	ES
Tiger #227H - Wellbore #1 - Final Survey	14,300.0	15,622.0	2,999.6	2,789.8	14.295	SF

Offset Design Anne Com - Anne Com #202H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 200-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	73.1	73.1	0.0	0.1	-100.30	-1,732.1	-9,534.6	9,690.8				
100.0	100.0	230.0	230.0	0.1	0.4	-100.30	-1,732.1	-9,533.4	9,690.0	9,689.4	0.55	N/A	
200.0	200.0	312.1	312.1	0.5	0.7	-100.30	-1,732.2	-9,532.7	9,689.1	9,687.9	1.20	8,099.836	
300.0	300.0	395.3	395.3	0.8	1.0	-100.30	-1,732.3	-9,532.1	9,688.4	9,686.5	1.85	5,232.114	
400.0	400.0	489.0	489.0	1.2	1.3	-100.30	-1,732.4	-9,531.5	9,687.8	9,685.3	2.55	3,805.900	
500.0	500.0	588.7	588.7	1.6	1.7	-100.30	-1,732.3	-9,531.0	9,687.3	9,684.0	3.26	2,972.461	
600.0	600.0	690.8	690.7	1.9	2.1	-100.30	-1,731.9	-9,530.5	9,686.7	9,682.8	3.98	2,433.771	
700.0	700.0	743.1	743.1	2.3	2.2	-100.30	-1,731.6	-9,530.4	9,686.4	9,681.9	4.52	2,143.934	
713.9	713.9	750.5	750.4	2.3	2.3	-100.30	-1,731.5	-9,530.4	9,686.4	9,681.8	4.59	2,108.845	
800.0	800.0	795.8	795.8	2.6	2.4	-100.30	-1,731.3	-9,530.5	9,686.6	9,681.6	5.06	1,915.334	
900.0	900.0	872.0	872.0	3.0	2.7	-100.29	-1,730.8	-9,531.2	9,687.3	9,681.6	5.68	1,706.409	
1,000.0	1,000.0	872.0	872.0	3.4	2.7	-100.29	-1,730.8	-9,531.2	9,688.5	9,682.5	6.04	1,605.196	

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

Matador Production Company

Rustler Breaks
Ken Wilson
Ken Wilson #132H

Wellbore #1

Plan: State Plan #1

Standard Planning Report

09 May, 2023

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Ken Wilson #132H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3005.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3005.5usft
Site:	Ken Wilson	**North Reference:**	Grid
Well:	Ken Wilson #132H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

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

Site	Ken Wilson				
Site Position:		**Northing:**	443,719.72 usft	**Latitude:**	32° 13' 10.507 N
From:	Lat/Long	**Easting:**	587,603.35 usft	**Longitude:**	104° 3' 0.217 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.15 °

Well	Ken Wilson #132H					
Well Position	**+N/-S**	1,398.4 usft	**Northing:**	445,118.00 usft	**Latitude:**	32° 13' 24.344 N
	+E/-W	33.7 usft	**Easting:**	587,637.00 usft	**Longitude:**	104° 2' 59.783 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	2,977.0 usft

Wellbore	Wellbore #1				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	5/9/2023	6.54	59.91	47,286.75728212

Design	State Plan #1			
Audit Notes:				
Version:	**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**
	0.0	0.0	0.0	262.58

Plan Survey Tool Program **Date** 5/9/2023

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,211.7	State Plan #1 (Wellbore #1)	MWD	
				OWSG MWD - Standard	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,639.9	13.20	169.32	1,636.0	-49.6	9.3	3.00	3.00	0.00	169.32	
7,431.8	13.20	169.32	7,275.0	-1,348.9	254.3	0.00	0.00	0.00	0.00	
8,311.6	0.00	0.00	8,147.0	-1,448.1	273.0	1.50	-1.50	0.00	180.00	VP - Ken Wilson #132
9,211.6	90.00	270.58	8,720.0	-1,442.3	-299.9	10.00	10.00	0.00	270.58	
19,211.7	90.00	270.58	8,720.0	-1,340.9	-10,299.5	0.00	0.00	0.00	0.00	BHL - Ken Wilson #13

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Ken Wilson #132H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3005.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3005.5usft
Site:	Ken Wilson	**North Reference:**	Grid
Well:	Ken Wilson #132H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
261.0	0.00	0.00	261.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
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
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 3.00									
1,300.0	3.00	169.32	1,300.0	-2.6	0.5	-0.1	3.00	3.00	0.00
1,400.0	6.00	169.32	1,399.6	-10.3	1.9	-0.6	3.00	3.00	0.00
1,500.0	9.00	169.32	1,498.8	-23.1	4.4	-1.3	3.00	3.00	0.00
1,600.0	12.00	169.32	1,597.1	-41.0	7.7	-2.4	3.00	3.00	0.00
1,639.9	13.20	169.32	1,636.0	-49.6	9.3	-2.9	3.00	3.00	0.00
Start 5791.9 hold at 1639.9 MD									
1,700.0	13.20	169.32	1,694.5	-63.0	11.9	-3.6	0.00	0.00	0.00
1,800.0	13.20	169.32	1,791.9	-85.5	16.1	-4.9	0.00	0.00	0.00
1,900.0	13.20	169.32	1,889.3	-107.9	20.3	-6.2	0.00	0.00	0.00
2,000.0	13.20	169.32	1,986.6	-130.4	24.6	-7.5	0.00	0.00	0.00
2,100.0	13.20	169.32	2,084.0	-152.8	28.8	-8.8	0.00	0.00	0.00
2,200.0	13.20	169.32	2,181.3	-175.2	33.0	-10.1	0.00	0.00	0.00
2,300.0	13.20	169.32	2,278.7	-197.7	37.3	-11.4	0.00	0.00	0.00
2,400.0	13.20	169.32	2,376.0	-220.1	41.5	-12.7	0.00	0.00	0.00
2,500.0	13.20	169.32	2,473.4	-242.5	45.7	-14.0	0.00	0.00	0.00
2,600.0	13.20	169.32	2,570.8	-265.0	50.0	-15.3	0.00	0.00	0.00
2,682.4	13.20	169.32	2,651.0	-283.4	53.4	-16.4	0.00	0.00	0.00
Lamar									
2,700.0	13.20	169.32	2,668.1	-287.4	54.2	-16.6	0.00	0.00	0.00
2,735.8	13.20	169.32	2,703.0	-295.4	55.7	-17.1	0.00	0.00	0.00
Bell Canyon									
2,800.0	13.20	169.32	2,765.5	-309.8	58.4	-17.9	0.00	0.00	0.00
2,900.0	13.20	169.32	2,862.8	-332.3	62.6	-19.2	0.00	0.00	0.00
3,000.0	13.20	169.32	2,960.2	-354.7	66.9	-20.5	0.00	0.00	0.00
3,100.0	13.20	169.32	3,057.6	-377.1	71.1	-21.8	0.00	0.00	0.00
3,200.0	13.20	169.32	3,154.9	-399.6	75.3	-23.1	0.00	0.00	0.00
3,300.0	13.20	169.32	3,252.3	-422.0	79.6	-24.4	0.00	0.00	0.00
3,400.0	13.20	169.32	3,349.6	-444.4	83.8	-25.7	0.00	0.00	0.00
3,500.0	13.20	169.32	3,447.0	-466.9	88.0	-27.0	0.00	0.00	0.00
3,600.0	13.20	169.32	3,544.4	-489.3	92.3	-28.3	0.00	0.00	0.00
3,658.9	13.20	169.32	3,601.7	-502.5	94.7	-29.1	0.00	0.00	0.00
Cherry Canyon									
3,700.0	13.20	169.32	3,641.7	-511.7	96.5	-29.6	0.00	0.00	0.00
3,800.0	13.20	169.32	3,739.1	-534.2	100.7	-30.9	0.00	0.00	0.00
3,900.0	13.20	169.32	3,836.4	-556.6	104.9	-32.2	0.00	0.00	0.00
4,000.0	13.20	169.32	3,933.8	-579.0	109.2	-33.5	0.00	0.00	0.00
4,100.0	13.20	169.32	4,031.2	-601.5	113.4	-34.8	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Ken Wilson #132H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3005.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3005.5usft
Site:	Ken Wilson	**North Reference:**	Grid
Well:	Ken Wilson #132H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,200.0	13.20	169.32	4,128.5	-623.9	117.6	-36.1	0.00	0.00	0.00
4,300.0	13.20	169.32	4,225.9	-646.3	121.9	-37.4	0.00	0.00	0.00
4,400.0	13.20	169.32	4,323.2	-668.8	126.1	-38.7	0.00	0.00	0.00
4,500.0	13.20	169.32	4,420.6	-691.2	130.3	-40.0	0.00	0.00	0.00
4,600.0	13.20	169.32	4,517.9	-713.6	134.5	-41.3	0.00	0.00	0.00
4,700.0	13.20	169.32	4,615.3	-736.1	138.8	-42.6	0.00	0.00	0.00
4,800.0	13.20	169.32	4,712.7	-758.5	143.0	-43.9	0.00	0.00	0.00
4,895.5	13.20	169.32	4,805.7	-780.0	147.0	-45.1	0.00	0.00	0.00
Brushy Canyon									
4,900.0	13.20	169.32	4,810.0	-781.0	147.2	-45.2	0.00	0.00	0.00
5,000.0	13.20	169.32	4,907.4	-803.4	151.5	-46.5	0.00	0.00	0.00
5,100.0	13.20	169.32	5,004.7	-825.8	155.7	-47.8	0.00	0.00	0.00
5,200.0	13.20	169.32	5,102.1	-848.3	159.9	-49.1	0.00	0.00	0.00
5,300.0	13.20	169.32	5,199.5	-870.7	164.2	-50.4	0.00	0.00	0.00
5,400.0	13.20	169.32	5,296.8	-893.1	168.4	-51.7	0.00	0.00	0.00
5,500.0	13.20	169.32	5,394.2	-915.6	172.6	-53.0	0.00	0.00	0.00
5,600.0	13.20	169.32	5,491.5	-938.0	176.8	-54.3	0.00	0.00	0.00
5,700.0	13.20	169.32	5,588.9	-960.4	181.1	-55.6	0.00	0.00	0.00
5,800.0	13.20	169.32	5,686.3	-982.9	185.3	-56.9	0.00	0.00	0.00
5,900.0	13.20	169.32	5,783.6	-1,005.3	189.5	-58.2	0.00	0.00	0.00
6,000.0	13.20	169.32	5,881.0	-1,027.7	193.8	-59.5	0.00	0.00	0.00
6,100.0	13.20	169.32	5,978.3	-1,050.2	198.0	-60.8	0.00	0.00	0.00
6,200.0	13.20	169.32	6,075.7	-1,072.6	202.2	-62.1	0.00	0.00	0.00
6,300.0	13.20	169.32	6,173.1	-1,095.0	206.5	-63.4	0.00	0.00	0.00
6,400.0	13.20	169.32	6,270.4	-1,117.5	210.7	-64.6	0.00	0.00	0.00
6,495.0	13.20	169.32	6,362.9	-1,138.8	214.7	-65.9	0.00	0.00	0.00
Bone Spring Lime									
6,500.0	13.20	169.32	6,367.8	-1,139.9	214.9	-65.9	0.00	0.00	0.00
6,600.0	13.20	169.32	6,465.1	-1,162.3	219.1	-67.2	0.00	0.00	0.00
6,700.0	13.20	169.32	6,562.5	-1,184.8	223.4	-68.5	0.00	0.00	0.00
6,800.0	13.20	169.32	6,659.9	-1,207.2	227.6	-69.8	0.00	0.00	0.00
6,900.0	13.20	169.32	6,757.2	-1,229.6	231.8	-71.1	0.00	0.00	0.00
7,000.0	13.20	169.32	6,854.6	-1,252.1	236.1	-72.4	0.00	0.00	0.00
7,100.0	13.20	169.32	6,951.9	-1,274.5	240.3	-73.7	0.00	0.00	0.00
7,200.0	13.20	169.32	7,049.3	-1,296.9	244.5	-75.0	0.00	0.00	0.00
7,300.0	13.20	169.32	7,146.6	-1,319.4	248.8	-76.3	0.00	0.00	0.00
7,400.0	13.20	169.32	7,244.0	-1,341.8	253.0	-77.6	0.00	0.00	0.00
7,431.8	13.20	169.32	7,275.0	-1,348.9	254.3	-78.0	0.00	0.00	0.00
Start Drop -1.50									
7,447.9	12.96	169.32	7,290.7	-1,352.5	255.0	-78.2	1.50	-1.50	0.00
First Bone Spring Sand									
7,500.0	12.17	169.32	7,341.5	-1,363.7	257.1	-78.9	1.50	-1.50	0.00
7,600.0	10.67	169.32	7,439.5	-1,383.1	260.8	-80.0	1.50	-1.50	0.00
7,700.0	9.17	169.32	7,538.0	-1,400.1	264.0	-81.0	1.50	-1.50	0.00
7,702.8	9.13	169.32	7,540.8	-1,400.5	264.0	-81.0	1.50	-1.50	0.00
Second Bone Spring Carbonate									
7,800.0	7.67	169.32	7,636.9	-1,414.5	266.7	-81.8	1.50	-1.50	0.00
7,900.0	6.17	169.32	7,736.2	-1,426.3	268.9	-82.5	1.50	-1.50	0.00
8,000.0	4.67	169.32	7,835.8	-1,435.6	270.7	-83.1	1.50	-1.50	0.00
8,100.0	3.17	169.32	7,935.5	-1,442.3	271.9	-83.4	1.50	-1.50	0.00
8,200.0	1.67	169.32	8,035.4	-1,446.5	272.7	-83.7	1.50	-1.50	0.00
8,217.6	1.41	169.32	8,053.0	-1,446.9	272.8	-83.7	1.50	-1.50	0.00
Second Bone Spring Sand									

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Ken Wilson #132H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3005.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3005.5usft
Site:	Ken Wilson	**North Reference:**	Grid
Well:	Ken Wilson #132H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,300.0	0.17	169.32	8,135.4	-1,448.1	273.0	-83.8	1.50	-1.50	0.00
8,311.6	0.00	0.00	8,147.0	-1,448.1	273.0	-83.8	1.50	-1.50	-1,460.54
Start Build 10.00 - VP - Ken Wilson #132H									
8,350.0	3.84	270.58	8,185.4	-1,448.1	271.7	-82.5	10.00	10.00	-232.82
8,400.0	8.84	270.58	8,235.1	-1,448.0	266.2	-77.0	10.00	10.00	0.00
8,450.0	13.84	270.58	8,284.1	-1,447.9	256.4	-67.3	10.00	10.00	0.00
8,500.0	18.84	270.58	8,332.0	-1,447.8	242.3	-53.4	10.00	10.00	0.00
8,550.0	23.84	270.58	8,378.6	-1,447.6	224.1	-35.4	10.00	10.00	0.00
8,600.0	28.84	270.58	8,423.4	-1,447.4	202.0	-13.4	10.00	10.00	0.00
8,621.0	30.94	270.58	8,441.6	-1,447.2	191.5	-3.1	10.00	10.00	0.00
Third Bone Spring Carbonate									
8,650.0	33.84	270.58	8,466.1	-1,447.1	176.0	12.3	10.00	10.00	0.00
8,700.0	38.84	270.58	8,506.3	-1,446.8	146.3	41.7	10.00	10.00	0.00
8,750.0	43.84	270.58	8,543.9	-1,446.5	113.3	74.4	10.00	10.00	0.00
8,792.3	48.07	270.58	8,573.2	-1,446.2	83.0	104.4	10.00	10.00	0.00
FTP - Ken Wilson #132H									
8,800.0	48.84	270.58	8,578.4	-1,446.1	77.2	110.2	10.00	10.00	0.00
8,850.0	53.84	270.58	8,609.6	-1,445.7	38.1	148.8	10.00	10.00	0.00
8,900.0	58.84	270.58	8,637.3	-1,445.3	-3.5	190.0	10.00	10.00	0.00
8,950.0	63.84	270.58	8,661.3	-1,444.8	-47.3	233.5	10.00	10.00	0.00
9,000.0	68.84	270.58	8,681.3	-1,444.4	-93.1	278.8	10.00	10.00	0.00
9,050.0	73.84	270.58	8,697.3	-1,443.9	-140.5	325.7	10.00	10.00	0.00
9,100.0	78.84	270.58	8,709.1	-1,443.4	-189.0	373.8	10.00	10.00	0.00
9,150.0	83.84	270.58	8,716.7	-1,442.9	-238.4	422.7	10.00	10.00	0.00
9,200.0	88.84	270.58	8,719.8	-1,442.4	-288.3	472.1	10.00	10.00	0.00
9,211.6	90.00	270.58	8,720.0	-1,442.3	-299.9	483.6	10.00	10.00	0.00
Start 10000.1 hold at 9211.6 MD									
9,300.0	90.00	270.58	8,720.0	-1,441.4	-388.3	571.2	0.00	0.00	0.00
9,400.0	90.00	270.58	8,720.0	-1,440.4	-488.3	670.2	0.00	0.00	0.00
9,500.0	90.00	270.58	8,720.0	-1,439.4	-588.3	769.2	0.00	0.00	0.00
9,600.0	90.00	270.58	8,720.0	-1,438.3	-688.3	868.2	0.00	0.00	0.00
9,700.0	90.00	270.58	8,720.0	-1,437.3	-788.3	967.3	0.00	0.00	0.00
9,800.0	90.00	270.58	8,720.0	-1,436.3	-888.3	1,066.3	0.00	0.00	0.00
9,900.0	90.00	270.58	8,720.0	-1,435.3	-988.3	1,165.3	0.00	0.00	0.00
10,000.0	90.00	270.58	8,720.0	-1,434.3	-1,088.3	1,264.3	0.00	0.00	0.00
10,100.0	90.00	270.58	8,720.0	-1,433.3	-1,188.3	1,363.4	0.00	0.00	0.00
10,200.0	90.00	270.58	8,720.0	-1,432.3	-1,288.3	1,462.4	0.00	0.00	0.00
10,300.0	90.00	270.58	8,720.0	-1,431.3	-1,388.3	1,561.4	0.00	0.00	0.00
10,400.0	90.00	270.58	8,720.0	-1,430.2	-1,488.3	1,660.5	0.00	0.00	0.00
10,500.0	90.00	270.58	8,720.0	-1,429.2	-1,588.3	1,759.5	0.00	0.00	0.00
10,600.0	90.00	270.58	8,720.0	-1,428.2	-1,688.3	1,858.5	0.00	0.00	0.00
10,700.0	90.00	270.58	8,720.0	-1,427.2	-1,788.2	1,957.5	0.00	0.00	0.00
10,800.0	90.00	270.58	8,720.0	-1,426.2	-1,888.2	2,056.6	0.00	0.00	0.00
10,900.0	90.00	270.58	8,720.0	-1,425.2	-1,988.2	2,155.6	0.00	0.00	0.00
11,000.0	90.00	270.58	8,720.0	-1,424.2	-2,088.2	2,254.6	0.00	0.00	0.00
11,100.0	90.00	270.58	8,720.0	-1,423.2	-2,188.2	2,353.6	0.00	0.00	0.00
11,200.0	90.00	270.58	8,720.0	-1,422.1	-2,288.2	2,452.7	0.00	0.00	0.00
11,300.0	90.00	270.58	8,720.0	-1,421.1	-2,388.2	2,551.7	0.00	0.00	0.00
11,400.0	90.00	270.58	8,720.0	-1,420.1	-2,488.2	2,650.7	0.00	0.00	0.00
11,500.0	90.00	270.58	8,720.0	-1,419.1	-2,588.2	2,749.8	0.00	0.00	0.00
11,600.0	90.00	270.58	8,720.0	-1,418.1	-2,688.2	2,848.8	0.00	0.00	0.00
11,700.0	90.00	270.58	8,720.0	-1,417.1	-2,788.2	2,947.8	0.00	0.00	0.00
11,800.0	90.00	270.58	8,720.0	-1,416.1	-2,888.2	3,046.8	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Ken Wilson #132H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3005.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3005.5usft
Site:	Ken Wilson	**North Reference:**	Grid
Well:	Ken Wilson #132H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,900.0	90.00	270.58	8,720.0	-1,415.1	-2,988.2	3,145.9	0.00	0.00	0.00
12,000.0	90.00	270.58	8,720.0	-1,414.0	-3,088.2	3,244.9	0.00	0.00	0.00
12,100.0	90.00	270.58	8,720.0	-1,413.0	-3,188.2	3,343.9	0.00	0.00	0.00
12,200.0	90.00	270.58	8,720.0	-1,412.0	-3,288.2	3,442.9	0.00	0.00	0.00
12,300.0	90.00	270.58	8,720.0	-1,411.0	-3,388.2	3,542.0	0.00	0.00	0.00
12,400.0	90.00	270.58	8,720.0	-1,410.0	-3,488.2	3,641.0	0.00	0.00	0.00
12,500.0	90.00	270.58	8,720.0	-1,409.0	-3,588.2	3,740.0	0.00	0.00	0.00
12,600.0	90.00	270.58	8,720.0	-1,408.0	-3,688.1	3,839.1	0.00	0.00	0.00
12,700.0	90.00	270.58	8,720.0	-1,407.0	-3,788.1	3,938.1	0.00	0.00	0.00
12,800.0	90.00	270.58	8,720.0	-1,405.9	-3,888.1	4,037.1	0.00	0.00	0.00
12,900.0	90.00	270.58	8,720.0	-1,404.9	-3,988.1	4,136.1	0.00	0.00	0.00
13,000.0	90.00	270.58	8,720.0	-1,403.9	-4,088.1	4,235.2	0.00	0.00	0.00
13,100.0	90.00	270.58	8,720.0	-1,402.9	-4,188.1	4,334.2	0.00	0.00	0.00
13,200.0	90.00	270.58	8,720.0	-1,401.9	-4,288.1	4,433.2	0.00	0.00	0.00
13,300.0	90.00	270.58	8,720.0	-1,400.9	-4,388.1	4,532.2	0.00	0.00	0.00
13,400.0	90.00	270.58	8,720.0	-1,399.9	-4,488.1	4,631.3	0.00	0.00	0.00
13,500.0	90.00	270.58	8,720.0	-1,398.9	-4,588.1	4,730.3	0.00	0.00	0.00
13,600.0	90.00	270.58	8,720.0	-1,397.9	-4,688.1	4,829.3	0.00	0.00	0.00
13,700.0	90.00	270.58	8,720.0	-1,396.8	-4,788.1	4,928.4	0.00	0.00	0.00
13,800.0	90.00	270.58	8,720.0	-1,395.8	-4,888.1	5,027.4	0.00	0.00	0.00
13,900.0	90.00	270.58	8,720.0	-1,394.8	-4,988.1	5,126.4	0.00	0.00	0.00
14,000.0	90.00	270.58	8,720.0	-1,393.8	-5,088.1	5,225.4	0.00	0.00	0.00
14,100.0	90.00	270.58	8,720.0	-1,392.8	-5,188.1	5,324.5	0.00	0.00	0.00
14,200.0	90.00	270.58	8,720.0	-1,391.8	-5,288.1	5,423.5	0.00	0.00	0.00
14,300.0	90.00	270.58	8,720.0	-1,390.8	-5,388.1	5,522.5	0.00	0.00	0.00
14,400.0	90.00	270.58	8,720.0	-1,389.8	-5,488.1	5,621.5	0.00	0.00	0.00
14,500.0	90.00	270.58	8,720.0	-1,388.7	-5,588.1	5,720.6	0.00	0.00	0.00
14,600.0	90.00	270.58	8,720.0	-1,387.7	-5,688.0	5,819.6	0.00	0.00	0.00
14,700.0	90.00	270.58	8,720.0	-1,386.7	-5,788.0	5,918.6	0.00	0.00	0.00
14,800.0	90.00	270.58	8,720.0	-1,385.7	-5,888.0	6,017.7	0.00	0.00	0.00
14,900.0	90.00	270.58	8,720.0	-1,384.7	-5,988.0	6,116.7	0.00	0.00	0.00
15,000.0	90.00	270.58	8,720.0	-1,383.7	-6,088.0	6,215.7	0.00	0.00	0.00
15,100.0	90.00	270.58	8,720.0	-1,382.7	-6,188.0	6,314.7	0.00	0.00	0.00
15,200.0	90.00	270.58	8,720.0	-1,381.7	-6,288.0	6,413.8	0.00	0.00	0.00
15,300.0	90.00	270.58	8,720.0	-1,380.6	-6,388.0	6,512.8	0.00	0.00	0.00
15,400.0	90.00	270.58	8,720.0	-1,379.6	-6,488.0	6,611.8	0.00	0.00	0.00
15,500.0	90.00	270.58	8,720.0	-1,378.6	-6,588.0	6,710.8	0.00	0.00	0.00
15,600.0	90.00	270.58	8,720.0	-1,377.6	-6,688.0	6,809.9	0.00	0.00	0.00
15,700.0	90.00	270.58	8,720.0	-1,376.6	-6,788.0	6,908.9	0.00	0.00	0.00
15,800.0	90.00	270.58	8,720.0	-1,375.6	-6,888.0	7,007.9	0.00	0.00	0.00
15,900.0	90.00	270.58	8,720.0	-1,374.6	-6,988.0	7,107.0	0.00	0.00	0.00
16,000.0	90.00	270.58	8,720.0	-1,373.6	-7,088.0	7,206.0	0.00	0.00	0.00
16,100.0	90.00	270.58	8,720.0	-1,372.5	-7,188.0	7,305.0	0.00	0.00	0.00
16,200.0	90.00	270.58	8,720.0	-1,371.5	-7,288.0	7,404.0	0.00	0.00	0.00
16,300.0	90.00	270.58	8,720.0	-1,370.5	-7,388.0	7,503.1	0.00	0.00	0.00
16,400.0	90.00	270.58	8,720.0	-1,369.5	-7,488.0	7,602.1	0.00	0.00	0.00
16,500.0	90.00	270.58	8,720.0	-1,368.5	-7,587.9	7,701.1	0.00	0.00	0.00
16,600.0	90.00	270.58	8,720.0	-1,367.5	-7,687.9	7,800.2	0.00	0.00	0.00
16,700.0	90.00	270.58	8,720.0	-1,366.5	-7,787.9	7,899.2	0.00	0.00	0.00
16,800.0	90.00	270.58	8,720.0	-1,365.5	-7,887.9	7,998.2	0.00	0.00	0.00
16,900.0	90.00	270.58	8,720.0	-1,364.4	-7,987.9	8,097.2	0.00	0.00	0.00
17,000.0	90.00	270.58	8,720.0	-1,363.4	-8,087.9	8,196.3	0.00	0.00	0.00
17,100.0	90.00	270.58	8,720.0	-1,362.4	-8,187.9	8,295.3	0.00	0.00	0.00
17,200.0	90.00	270.58	8,720.0	-1,361.4	-8,287.9	8,394.3	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Ken Wilson #132H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3005.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3005.5usft
Site:	Ken Wilson	**North Reference:**	Grid
Well:	Ken Wilson #132H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,300.0	90.00	270.58	8,720.0	-1,360.4	-8,387.9	8,493.3	0.00	0.00	0.00
17,400.0	90.00	270.58	8,720.0	-1,359.4	-8,487.9	8,592.4	0.00	0.00	0.00
17,500.0	90.00	270.58	8,720.0	-1,358.4	-8,587.9	8,691.4	0.00	0.00	0.00
17,600.0	90.00	270.58	8,720.0	-1,357.4	-8,687.9	8,790.4	0.00	0.00	0.00
17,700.0	90.00	270.58	8,720.0	-1,356.3	-8,787.9	8,889.5	0.00	0.00	0.00
17,800.0	90.00	270.58	8,720.0	-1,355.3	-8,887.9	8,988.5	0.00	0.00	0.00
17,900.0	90.00	270.58	8,720.0	-1,354.3	-8,987.9	9,087.5	0.00	0.00	0.00
18,000.0	90.00	270.58	8,720.0	-1,353.3	-9,087.9	9,186.5	0.00	0.00	0.00
18,100.0	90.00	270.58	8,720.0	-1,352.3	-9,187.9	9,285.6	0.00	0.00	0.00
18,200.0	90.00	270.58	8,720.0	-1,351.3	-9,287.9	9,384.6	0.00	0.00	0.00
18,300.0	90.00	270.58	8,720.0	-1,350.3	-9,387.9	9,483.6	0.00	0.00	0.00
18,400.0	90.00	270.58	8,720.0	-1,349.3	-9,487.9	9,582.6	0.00	0.00	0.00
18,500.0	90.00	270.58	8,720.0	-1,348.3	-9,587.8	9,681.7	0.00	0.00	0.00
18,600.0	90.00	270.58	8,720.0	-1,347.2	-9,687.8	9,780.7	0.00	0.00	0.00
18,700.0	90.00	270.58	8,720.0	-1,346.2	-9,787.8	9,879.7	0.00	0.00	0.00
18,800.0	90.00	270.58	8,720.0	-1,345.2	-9,887.8	9,978.8	0.00	0.00	0.00
18,900.0	90.00	270.58	8,720.0	-1,344.2	-9,987.8	10,077.8	0.00	0.00	0.00
19,000.0	90.00	270.58	8,720.0	-1,343.2	-10,087.8	10,176.8	0.00	0.00	0.00
19,100.0	90.00	270.58	8,720.0	-1,342.2	-10,187.8	10,275.8	0.00	0.00	0.00
19,200.0	90.00	270.58	8,720.0	-1,341.2	-10,287.8	10,374.9	0.00	0.00	0.00
19,211.7	90.00	270.58	8,720.0	-1,340.9	-10,299.5	10,386.4	0.00	0.00	0.00
TD at 19211.7 - BHL - Ken Wilson #132H									

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 - Ken Wilson #132H - plan hits target center - Point	0.00	0.00	8,147.0	-1,448.1	273.0	443,670.00	587,910.00	32° 13' 10.007 N	104° 2' 56.649 W
FTP - Ken Wilson #132H - plan misses target center by 202.9usft at 8792.3usft MD (8573.2 TVD, -1446.2 N, 83.0 E) - Point	0.00	0.00	8,720.0	-1,448.1	223.0	443,670.00	587,860.00	32° 13' 10.008 N	104° 2' 57.231 W
BHL - Ken Wilson #132H - plan hits target center - Point	0.00	0.01	8,720.0	-1,340.9	-10,299.5	443,777.00	577,337.00	32° 13' 11.326 N	104° 4' 59.724 W

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Ken Wilson #132H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3005.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3005.5usft
Site:	Ken Wilson	**North Reference:**	Grid
Well:	Ken Wilson #132H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
261.0	261.0	Rustler		-1.00	270.49
2,682.4	2,651.0	Lamar		-1.00	270.49
2,735.8	2,703.0	Bell Canyon		-1.00	270.49
3,658.9	3,601.7	Cherry Canyon		-1.00	270.49
4,895.5	4,805.7	Brushy Canyon		-1.00	270.49
6,495.0	6,362.9	Bone Spring Lime		-1.00	270.49
7,447.9	7,290.7	First Bone Spring Sand		-1.00	270.49
7,702.8	7,540.8	Second Bone Spring Carbonate		-1.00	270.49
8,217.6	8,053.0	Second Bone Spring Sand		-1.00	270.49
8,621.0	8,441.6	Third Bone Spring Carbonate		-1.00	270.49

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,200.0	1,200.0	0.0	0.0	Start Build 3.00
1,639.9	1,636.0	-49.6	9.3	Start 5791.9 hold at 1639.9 MD
7,431.8	7,275.0	-1,348.9	254.3	Start Drop -1.50
8,311.6	8,147.0	-1,448.1	273.0	Start Build 10.00
9,211.6	8,720.0	-1,442.3	-299.9	Start 10000.1 hold at 9211.6 MD
19,211.7	8,720.0	-1,340.9	-10,299.5	TD at 19211.7