

**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 363724

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

1. Operator Name and Address MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240		2. OGRID Number 228937
		3. API Number 30-015-55127
4. Property Code 325764	5. Property Name JACK SLEEPER STATE COM 9 16 23S 28E	6. Well No. 111H

**7. Surface Location**

UL - Lot N	Section 4	Township 23S	Range 28E	Lot Idn N	Feet From 1064	N/S Line S	Feet From 1774	E/W Line W	County Eddy
---------------	--------------	-----------------	--------------	--------------	-------------------	---------------	-------------------	---------------	----------------

**8. Proposed Bottom Hole Location**

UL - Lot M	Section 16	Township 23S	Range 28E	Lot Idn M	Feet From 110	N/S Line S	Feet From 330	E/W Line W	County Eddy
---------------	---------------	-----------------	--------------	--------------	------------------	---------------	------------------	---------------	----------------

**9. Pool Information**

CULEBRA BLUFF;BONE SPRING, SOUTH	15011
----------------------------------	-------

**Additional Well Information**

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3014
16. Multiple N	17. Proposed Depth 18146	18. Formation Bone Spring	19. Contractor	20. Spud Date 5/20/2024
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	399	205	0
Int1	12.25	9.625	40	2742	381	0
Prod	7.875	5.5	20	18146	1254	2542

**Casing/Cement Program: Additional Comments**

--

**22. Proposed Blowout Prevention Program**

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

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

Signature:

Printed Name: Electronically filed by Brett A Jennings	Approved By: Dean McClure	
Title: Regulatory Analyst	Title: Petroleum Specialist - A	
Email Address: brett.jennings@matadorresources.com	Approved Date: 6/4/2024	Expiration Date: 6/4/2026
Date: 4/15/2024	Phone: 972-629-2160	Conditions of Approval Attached

**OIL CONSERVATION DIVISION**

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 Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources  
Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-015-55127	<sup>2</sup> Pool Code 15011	<sup>3</sup> Pool Name Culebra Bluff; Bone Spring South
<sup>4</sup> Property Code 325764	<sup>5</sup> Property Name JACK SLEEPER COM 9 & 16-23S-28E	<sup>6</sup> Well Number 111H
<sup>7</sup> OGRID No. 228937	<sup>8</sup> Operator Name MATADOR PRODUCTION COMPANY	<sup>9</sup> Elevation 3014'

<sup>10</sup>Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	4	23-S	28-E	-	1064'	SOUTH	1774'	WEST	EDDY

<sup>11</sup>Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	16	23-S	28-E	-	110'	SOUTH	330'	WEST	EDDY

<sup>12</sup> Dedicated Acres 320	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
--------------------------------------	-------------------------------	----------------------------------	-------------------------

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.

	<p>NEW MEXICO EAST NAD 1983</p> <p><u>SURFACE LOCATION (SHL)</u></p> <p>1064' FSL - SEC. 4 1774' FWL - SEC. 4 X=614884 Y=483891 LAT.: N 32.3300633 LONG.: W 104.0952200</p> <p><u>KICK OFF POINT (KOP)</u></p> <p>473' FSL - SEC. 4 312' FWL - SEC. 4 X=613401 Y=483297 LAT.: N 32.3284395 LONG.: W 104.1000251</p> <p><u>FIRST PERFORATION POINT (FPP)</u></p> <p>100' FNL - SEC. 9 330' FWL - SEC. 9 X=613403 Y=482724 LAT.: N 32.3268644 LONG.: W 104.1000223</p> <p><u>LAST PERFORATION POINT (LPP)</u> <u>BOTTOM HOLE LOCATION (BHL)</u></p> <p>110' FSL - SEC. 16 330' FWL - SEC. 16 X=613442 Y=472313 LAT.: N 32.2982457 LONG.: W 104.0999711</p>	<p><sup>17</sup>OPERATOR CERTIFICATION</p> <p>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 undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>[Signature]</i> 4/4/2024 Signature Date Reece Clark Printed Name reece.clarke@matadornaturalresources.com E-mail Address</p> <p><sup>18</sup>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.</p> <p>03/04/2024 Date of Survey Signature and Seal of Professional Surveyor  </p> <p>4/3/2024 2:08:16 PM Certificate Number</p> <p>NEW MEXICO EAST NAD 1927</p> <table border="0"> <tr> <td> <p><u>SURFACE LOCATION (SHL)</u></p> <p>X=573702 Y=463831 LAT. N 32.3289430 LONG. W 104.0947232</p> </td> <td> <p><u>KICK OFF POINT (KOP)</u></p> <p>X=572219 Y=463327 LAT. N 32.3283192 LONG. W 104.0955283</p> </td> </tr> <tr> <td> <p><u>FIRST PERFORATION POINT (FPP)</u></p> <p>X=572221 Y=482664 LAT. N 32.3267441 LONG. W 104.0995255</p> </td> <td> <p><u>LAST PERFORATION POINT (LPP)</u> <u>BOTTOM HOLE LOCATION (BHL)</u></p> <p>X=572259 Y=472254 LAT. N 32.2981252 LONG. W 104.094753</p> </td> </tr> </table>	<p><u>SURFACE LOCATION (SHL)</u></p> <p>X=573702 Y=463831 LAT. N 32.3289430 LONG. W 104.0947232</p>	<p><u>KICK OFF POINT (KOP)</u></p> <p>X=572219 Y=463327 LAT. N 32.3283192 LONG. W 104.0955283</p>	<p><u>FIRST PERFORATION POINT (FPP)</u></p> <p>X=572221 Y=482664 LAT. N 32.3267441 LONG. W 104.0995255</p>	<p><u>LAST PERFORATION POINT (LPP)</u> <u>BOTTOM HOLE LOCATION (BHL)</u></p> <p>X=572259 Y=472254 LAT. N 32.2981252 LONG. W 104.094753</p>
	<p><u>SURFACE LOCATION (SHL)</u></p> <p>X=573702 Y=463831 LAT. N 32.3289430 LONG. W 104.0947232</p>	<p><u>KICK OFF POINT (KOP)</u></p> <p>X=572219 Y=463327 LAT. N 32.3283192 LONG. W 104.0955283</p>				
	<p><u>FIRST PERFORATION POINT (FPP)</u></p> <p>X=572221 Y=482664 LAT. N 32.3267441 LONG. W 104.0995255</p>	<p><u>LAST PERFORATION POINT (LPP)</u> <u>BOTTOM HOLE LOCATION (BHL)</u></p> <p>X=572259 Y=472254 LAT. N 32.2981252 LONG. W 104.094753</p>				

**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 363724

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	API Number: 30-015-55127
	Well: JACK SLEEPER STATE COM 9 16 23S 28E #111H

OCD Reviewer	Condition
dmcclure	Notify OCD 24 hours prior to casing & cement
dmcclure	Will require a File As Drilled C-102 and a Directional Survey with the C-104
dmcclure	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
dmcclure	Cement is required to circulate on both surface and intermediate1 strings of casing
dmcclure	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
dmcclure	The Operator is to notify NMOCDC by sundry (Form C-103) within ten (10) days of the well being spud
dmcclure	If cement does not circulate on any string, a CBL is required for that string of casing

Well Name: Jack Sleeper State Com #111H

STRING	FLUID TYPE	HOLE SZ	CSG SZ	CSG GRADE	CSG WT	DEPTH SET	TOP CSG	TTL SX CEMENT	EST TOC	ADDITIONAL INFO FOR CSG/CMT PROGRAM (Optional)
SURF	FRESH WTR	17.5	13.375	J-55	54.50	399	0	205	0	Option to use surface setting rig.
INT 1	Diesel Brine Emulsion	12.25	9.625	J-55	40.00	2742	0	381	0	
PROD	OBM	7.875	5.5	P-110	20.00	18146	0	1254	2542	Optional DV tool and packer.

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:** 4/3/2024

**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
Jack Sleeper Com 9 & 16-23S-28E 111H	TBD	N- Sec 4 T23S R28E	1,064' FSL 1,774' FWL	1,100	4,500	3,750

**IV. Central Delivery Point Name:** Jack Sleeper 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
Jack Sleeper Com 9 & 16-23S-28E 111H	TBD	TBD	TBD	TBD	TBD	TBD

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

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

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

**Section 2 – Enhanced Plan**  
**EFFECTIVE APRIL 1, 2022**

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

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

**IX. Anticipated Natural Gas Production:**

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

**X. Natural Gas Gathering System (NGGS):**

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

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

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

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

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

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



### **Section 3 - Certifications**

**Effective May 25, 2021**

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

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

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

***If Operator checks this box, Operator will select one of the following:***

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

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

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

### **Section 4 - Notices**


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

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

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

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

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

Signature: 
Printed Name: Ben Peterson
Title: SVP Facilities Engineering
E-mail Address: <a href="mailto:bpeterson@matadorresources.com">bpeterson@matadorresources.com</a>
Date: 4/3/2024
Phone: (972) 371-5427
<b>OIL CONSERVATION DIVISION</b> <b>(Only applicable when submitted as a standalone form)</b>
Approved By:
Title:
Approval Date:
Conditions of Approval:



## Addendum to Natural Gas Management Plan for Matador's

### Jack Sleeper Com 9 & 16-23S-28E 111H

#### VI. Separation Equipment

Flow from the well will be routed via a flowline to a 48"x15' three phase separator dedicated to the well. The first stage separator is sized with input from BRE ProMax and API 12J. Expected production from the 111H well is approximately 4,500 mcf/d, 1,100 bopd, and 3,750 bwpd per well. 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 its separation equipment to optimize gas capture and its separation equipment is of sufficient size to handle the expected volumes of gas.

#### VII. Operation Practices

Although not a complete recitation of all our efforts to comply with a subsection A through F of 19.15.27.8 NMAC, a summary is as follows. During drilling, Matador will have a properly sized flare stack at least 100 feet from the nearest surface hole. During initial flowback we will route the flowback fluids into completion or storage tanks and, to the extent possible, flare rather than vent any gas. We will commence operation of a separator as soon as technically feasible, and have instructed our team that we want to connect the gas to sales as soon as possible but not later than 30 days after initial flowback.

Regarding production operations, we have designed our production facilities to be compliant with the requirements of Part E of 19.15.27.8 NMAC. We will instruct our team to perform the AVOs on the frequency required under the rules. While the well is producing, we will take steps to minimize flaring during maintenance, as set forth below, and we have a process in place for the measuring of any flared gas and the reporting of any reportable flaring events.

#### VII. Best Management Practices

Steps are taken to minimize venting during active or planned maintenance when technically feasible including:

- Isolating the affected component and reducing pressure through process piping
- Blowing down the equipment being maintained to a control device
- Performing preventative maintenance and minimizing the duration of maintenance activities
- Shutting in sources of supply as possible
- Other steps that are available depending on the maintenance being performed

# **Matador Production Company**

**Rustler Breaks**

**Jack Sleeper**

**Jack Sleeper Com 9 & 16-23S-28E #111H**

**Wellbore #1**

**Plan: State Plan #1**

## **Standard Planning Report**

**08 April, 2024**

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Jack Sleeper Com 9 & 16-23S-28E #111H
Company:	Matador Production Company	TVD Reference:	KB @ 3042.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3042.5usft
Site:	Jack Sleeper	North Reference:	Grid
Well:	Jack Sleeper Com 9 & 16-23S-28E #111H	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	Jack Sleeper		
Site Position:		Northing:	482,961.18 usft
From:	Lat/Long	Easting:	571,870.36 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 19' 39.222 N
		Longitude:	104° 6' 2.372 W
		Grid Convergence:	0.12 °

Well	Jack Sleeper Com 9 & 16-23S-28E #111H		
Well Position	+N/-S	870.3 usft	Northing:
	+E/-W	1,831.7 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level:

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/8/2024	6.46	59.99	47,250.19457258

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	179.79

Plan Survey Tool Program	Date	4/8/2024		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	18,146.8	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	
700.0	0.00	0.00	700.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,380.5	17.01	248.17	1,370.5	-37.3	-93.1	2.50	2.50	0.00	248.17	
6,155.4	17.01	248.17	5,936.5	-556.7	-1,390.0	0.00	0.00	0.00	0.00	
6,835.9	0.00	0.00	6,607.0	-594.0	-1,483.0	2.50	-2.50	0.00	180.00	KOP - Jack Sleeper C
7,735.9	90.00	179.80	7,180.0	-1,167.0	-1,481.0	10.00	10.00	0.00	179.80	
7,736.4	90.00	179.79	7,180.0	-1,167.6	-1,481.0	2.00	-0.04	-2.00	-91.14	
18,146.8	90.00	179.79	7,180.0	-11,577.8	-1,442.6	0.00	0.00	0.00	0.00	BHL - Jack Sleeper C

## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Jack Sleeper Com 9 & 16-23S-28E #111H
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3042.5usft
<b>Project:</b>	Rustler Breaks	<b>MD Reference:</b>	KB @ 3042.5usft
<b>Site:</b>	Jack Sleeper	<b>North Reference:</b>	Grid
<b>Well:</b>	Jack Sleeper Com 9 & 16-23S-28E #111H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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
93.0	0.00	0.00	93.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Rustler</b>									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
338.0	0.00	0.00	338.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Salado (TOP SALT)</b>									
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	2.50	248.17	800.0	-0.8	-2.0	0.8	2.50	2.50	0.00
900.0	5.00	248.17	899.7	-3.2	-8.1	3.2	2.50	2.50	0.00
989.8	7.24	248.17	989.0	-6.8	-17.0	6.7	2.50	2.50	0.00
<b>Castile (T)</b>									
1,000.0	7.50	248.17	999.1	-7.3	-18.2	7.2	2.50	2.50	0.00
1,100.0	10.00	248.17	1,098.0	-12.9	-32.3	12.8	2.50	2.50	0.00
1,200.0	12.50	248.17	1,196.0	-20.2	-50.4	20.0	2.50	2.50	0.00
1,300.0	15.00	248.17	1,293.2	-29.0	-72.5	28.8	2.50	2.50	0.00
1,380.5	17.01	248.17	1,370.5	-37.3	-93.1	36.9	2.50	2.50	0.00
1,400.0	17.01	248.17	1,389.2	-39.4	-98.4	39.1	0.00	0.00	0.00
1,500.0	17.01	248.17	1,484.8	-50.3	-125.6	49.8	0.00	0.00	0.00
1,600.0	17.01	248.17	1,580.4	-61.2	-152.7	60.6	0.00	0.00	0.00
1,700.0	17.01	248.17	1,676.1	-72.0	-179.9	71.4	0.00	0.00	0.00
1,800.0	17.01	248.17	1,771.7	-82.9	-207.0	82.2	0.00	0.00	0.00
1,900.0	17.01	248.17	1,867.3	-93.8	-234.2	92.9	0.00	0.00	0.00
2,000.0	17.01	248.17	1,962.9	-104.7	-261.4	103.7	0.00	0.00	0.00
2,100.0	17.01	248.17	2,058.6	-115.6	-288.5	114.5	0.00	0.00	0.00
2,200.0	17.01	248.17	2,154.2	-126.4	-315.7	125.3	0.00	0.00	0.00
2,300.0	17.01	248.17	2,249.8	-137.3	-342.8	136.1	0.00	0.00	0.00
2,400.0	17.01	248.17	2,345.4	-148.2	-370.0	146.8	0.00	0.00	0.00
2,500.0	17.01	248.17	2,441.1	-159.1	-397.2	157.6	0.00	0.00	0.00
2,542.8	17.01	248.17	2,482.0	-163.7	-408.8	162.2	0.00	0.00	0.00
<b>G30:CS14-CSB (BASE SALT)</b>									
2,592.0	17.01	248.17	2,529.0	-169.1	-422.1	167.5	0.00	0.00	0.00
<b>G26: Bell Cyn.</b>									
2,600.0	17.01	248.17	2,536.7	-170.0	-424.3	168.4	0.00	0.00	0.00
2,700.0	17.01	248.17	2,632.3	-180.8	-451.5	179.2	0.00	0.00	0.00
2,800.0	17.01	248.17	2,727.9	-191.7	-478.6	190.0	0.00	0.00	0.00
2,900.0	17.01	248.17	2,823.6	-202.6	-505.8	200.7	0.00	0.00	0.00
3,000.0	17.01	248.17	2,919.2	-213.5	-533.0	211.5	0.00	0.00	0.00
3,100.0	17.01	248.17	3,014.8	-224.4	-560.1	222.3	0.00	0.00	0.00
3,200.0	17.01	248.17	3,110.4	-235.2	-587.3	233.1	0.00	0.00	0.00
3,300.0	17.01	248.17	3,206.1	-246.1	-614.4	243.9	0.00	0.00	0.00
3,400.0	17.01	248.17	3,301.7	-257.0	-641.6	254.6	0.00	0.00	0.00
3,496.6	17.01	248.17	3,394.0	-267.5	-667.8	265.0	0.00	0.00	0.00
<b>G13: Cherry Cyn.</b>									
3,500.0	17.01	248.17	3,397.3	-267.9	-668.8	265.4	0.00	0.00	0.00
3,600.0	17.01	248.17	3,492.9	-278.7	-695.9	276.2	0.00	0.00	0.00
3,700.0	17.01	248.17	3,588.5	-289.6	-723.1	287.0	0.00	0.00	0.00
3,800.0	17.01	248.17	3,684.2	-300.5	-750.2	297.8	0.00	0.00	0.00

## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Jack Sleeper Com 9 & 16-23S-28E #111H
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3042.5usft
<b>Project:</b>	Rustler Breaks	<b>MD Reference:</b>	KB @ 3042.5usft
<b>Site:</b>	Jack Sleeper	<b>North Reference:</b>	Grid
<b>Well:</b>	Jack Sleeper Com 9 & 16-23S-28E #111H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)
3,900.0	17.01	248.17	3,779.8	-311.4	-777.4	308.5	0.00	0.00	0.00
4,000.0	17.01	248.17	3,875.4	-322.3	-804.6	319.3	0.00	0.00	0.00
4,100.0	17.01	248.17	3,971.0	-333.1	-831.7	330.1	0.00	0.00	0.00
4,200.0	17.01	248.17	4,066.7	-344.0	-858.9	340.9	0.00	0.00	0.00
4,300.0	17.01	248.17	4,162.3	-354.9	-886.0	351.6	0.00	0.00	0.00
4,400.0	17.01	248.17	4,257.9	-365.8	-913.2	362.4	0.00	0.00	0.00
4,500.0	17.01	248.17	4,353.5	-376.7	-940.4	373.2	0.00	0.00	0.00
4,600.0	17.01	248.17	4,449.2	-387.5	-967.5	384.0	0.00	0.00	0.00
4,675.1	17.01	248.17	4,521.0	-395.7	-987.9	392.1	0.00	0.00	0.00
<b>G7: Brushy Cyn.</b>									
4,700.0	17.01	248.17	4,544.8	-398.4	-994.7	394.8	0.00	0.00	0.00
4,800.0	17.01	248.17	4,640.4	-409.3	-1,021.8	405.5	0.00	0.00	0.00
4,900.0	17.01	248.17	4,736.0	-420.2	-1,049.0	416.3	0.00	0.00	0.00
5,000.0	17.01	248.17	4,831.7	-431.0	-1,076.2	427.1	0.00	0.00	0.00
5,100.0	17.01	248.17	4,927.3	-441.9	-1,103.3	437.9	0.00	0.00	0.00
5,200.0	17.01	248.17	5,022.9	-452.8	-1,130.5	448.7	0.00	0.00	0.00
5,300.0	17.01	248.17	5,118.5	-463.7	-1,157.6	459.4	0.00	0.00	0.00
5,400.0	17.01	248.17	5,214.2	-474.6	-1,184.8	470.2	0.00	0.00	0.00
5,500.0	17.01	248.17	5,309.8	-485.4	-1,212.0	481.0	0.00	0.00	0.00
5,600.0	17.01	248.17	5,405.4	-496.3	-1,239.1	491.8	0.00	0.00	0.00
5,700.0	17.01	248.17	5,501.0	-507.2	-1,266.3	502.6	0.00	0.00	0.00
5,800.0	17.01	248.17	5,596.7	-518.1	-1,293.4	513.3	0.00	0.00	0.00
5,900.0	17.01	248.17	5,692.3	-529.0	-1,320.6	524.1	0.00	0.00	0.00
6,000.0	17.01	248.17	5,787.9	-539.8	-1,347.8	534.9	0.00	0.00	0.00
6,100.0	17.01	248.17	5,883.5	-550.7	-1,374.9	545.7	0.00	0.00	0.00
6,155.4	17.01	248.17	5,936.5	-556.7	-1,390.0	551.6	0.00	0.00	0.00
6,200.0	15.90	248.17	5,979.3	-561.4	-1,401.7	556.3	2.50	-2.50	0.00
6,296.9	13.47	248.17	6,073.0	-570.6	-1,424.5	565.3	2.50	-2.50	0.00
<b>G4: BSGL (CS9)</b>									
6,300.0	13.40	248.17	6,076.0	-570.8	-1,425.2	565.6	2.50	-2.50	0.00
6,400.0	10.90	248.17	6,173.8	-578.7	-1,444.7	573.4	2.50	-2.50	0.00
6,495.6	8.51	248.17	6,268.0	-584.7	-1,459.6	579.3	2.50	-2.50	0.00
<b>L8.2: U. Avalon Shale</b>									
6,500.0	8.40	248.17	6,272.4	-584.9	-1,460.2	579.5	2.50	-2.50	0.00
6,600.0	5.90	248.17	6,371.6	-589.5	-1,471.8	584.1	2.50	-2.50	0.00
6,661.7	4.35	248.17	6,433.0	-591.6	-1,476.9	586.2	2.50	-2.50	0.00
<b>L6.3: Avalon Carb</b>									
6,700.0	3.40	248.17	6,471.2	-592.5	-1,479.3	587.1	2.50	-2.50	0.00
6,800.0	0.90	248.17	6,571.2	-593.9	-1,482.8	588.5	2.50	-2.50	0.00
6,833.9	0.05	248.17	6,605.0	-594.0	-1,483.0	588.6	2.50	-2.50	0.00
<b>L6.2: L. Avalon Shale</b>									
6,835.9	0.00	0.00	6,607.0	-594.0	-1,483.0	588.6	2.50	-2.50	5,591.41
<b>KOP - Jack Sleeper Com 9 &amp; 16-23S-28E #111H</b>									
6,900.0	6.41	179.80	6,671.0	-597.6	-1,483.0	592.2	10.00	10.00	280.28
6,981.4	14.56	179.80	6,751.0	-612.4	-1,483.0	607.0	10.00	10.00	0.00
<b>L5.3: FBSC</b>									
7,000.0	16.41	179.80	6,768.9	-617.4	-1,483.0	611.9	10.00	10.00	0.00
7,100.0	26.41	179.80	6,861.9	-653.8	-1,482.8	648.4	10.00	10.00	0.00
7,200.0	36.41	179.80	6,947.1	-705.9	-1,482.7	700.5	10.00	10.00	0.00
7,284.2	44.84	179.80	7,011.0	-760.7	-1,482.5	755.3	10.00	10.00	0.00
<b>L5.1: FBSC</b>									
7,300.0	46.41	179.80	7,022.0	-772.0	-1,482.4	766.5	10.00	10.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Jack Sleeper Com 9 & 16-23S-28E #111H
Company:	Matador Production Company	TVD Reference:	KB @ 3042.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3042.5usft
Site:	Jack Sleeper	North Reference:	Grid
Well:	Jack Sleeper Com 9 & 16-23S-28E #111H	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)	
7,400.0	56.41	179.80	7,084.3	-850.0	-1,482.2	844.6	10.00	10.00	0.00	
7,500.0	66.41	179.80	7,132.1	-937.7	-1,481.8	932.3	10.00	10.00	0.00	
7,600.0	76.41	179.80	7,163.9	-1,032.4	-1,481.5	1,027.0	10.00	10.00	0.00	
7,700.0	86.41	179.80	7,178.8	-1,131.2	-1,481.2	1,125.7	10.00	10.00	0.00	
7,735.9	90.00	179.80	7,180.0	-1,167.0	-1,481.0	1,161.5	10.00	10.00	0.00	
7,736.4	90.00	179.79	7,180.0	-1,167.6	-1,481.0	1,162.1	2.00	-0.04	-2.00	
7,800.0	90.00	179.79	7,180.0	-1,231.1	-1,480.8	1,225.7	0.00	0.00	0.00	
7,900.0	90.00	179.79	7,180.0	-1,331.1	-1,480.4	1,325.7	0.00	0.00	0.00	
8,000.0	90.00	179.79	7,180.0	-1,431.1	-1,480.1	1,425.7	0.00	0.00	0.00	
8,100.0	90.00	179.79	7,180.0	-1,531.1	-1,479.7	1,525.7	0.00	0.00	0.00	
8,200.0	90.00	179.79	7,180.0	-1,631.1	-1,479.3	1,625.7	0.00	0.00	0.00	
8,300.0	90.00	179.79	7,180.0	-1,731.1	-1,479.0	1,725.7	0.00	0.00	0.00	
8,400.0	90.00	179.79	7,180.0	-1,831.1	-1,478.6	1,825.7	0.00	0.00	0.00	
8,500.0	90.00	179.79	7,180.0	-1,931.1	-1,478.2	1,925.7	0.00	0.00	0.00	
8,600.0	90.00	179.79	7,180.0	-2,031.1	-1,477.9	2,025.7	0.00	0.00	0.00	
8,700.0	90.00	179.79	7,180.0	-2,131.1	-1,477.5	2,125.7	0.00	0.00	0.00	
8,800.0	90.00	179.79	7,180.0	-2,231.1	-1,477.1	2,225.7	0.00	0.00	0.00	
8,900.0	90.00	179.79	7,180.0	-2,331.1	-1,476.7	2,325.7	0.00	0.00	0.00	
9,000.0	90.00	179.79	7,180.0	-2,431.1	-1,476.4	2,425.7	0.00	0.00	0.00	
9,100.0	90.00	179.79	7,180.0	-2,531.1	-1,476.0	2,525.7	0.00	0.00	0.00	
9,200.0	90.00	179.79	7,180.0	-2,631.1	-1,475.6	2,625.7	0.00	0.00	0.00	
9,300.0	90.00	179.79	7,180.0	-2,731.1	-1,475.3	2,725.7	0.00	0.00	0.00	
9,400.0	90.00	179.79	7,180.0	-2,831.1	-1,474.9	2,825.7	0.00	0.00	0.00	
9,500.0	90.00	179.79	7,180.0	-2,931.1	-1,474.5	2,925.7	0.00	0.00	0.00	
9,600.0	90.00	179.79	7,180.0	-3,031.1	-1,474.2	3,025.7	0.00	0.00	0.00	
9,700.0	90.00	179.79	7,180.0	-3,131.1	-1,473.8	3,125.7	0.00	0.00	0.00	
9,800.0	90.00	179.79	7,180.0	-3,231.1	-1,473.4	3,225.7	0.00	0.00	0.00	
9,900.0	90.00	179.79	7,180.0	-3,331.1	-1,473.1	3,325.7	0.00	0.00	0.00	
10,000.0	90.00	179.79	7,180.0	-3,431.1	-1,472.7	3,425.7	0.00	0.00	0.00	
10,100.0	90.00	179.79	7,180.0	-3,531.1	-1,472.3	3,525.7	0.00	0.00	0.00	
10,200.0	90.00	179.79	7,180.0	-3,631.1	-1,471.9	3,625.7	0.00	0.00	0.00	
10,300.0	90.00	179.79	7,180.0	-3,731.1	-1,471.6	3,725.7	0.00	0.00	0.00	
10,400.0	90.00	179.79	7,180.0	-3,831.1	-1,471.2	3,825.7	0.00	0.00	0.00	
10,500.0	90.00	179.79	7,180.0	-3,931.1	-1,470.8	3,925.7	0.00	0.00	0.00	
10,600.0	90.00	179.79	7,180.0	-4,031.1	-1,470.5	4,025.7	0.00	0.00	0.00	
10,700.0	90.00	179.79	7,180.0	-4,131.1	-1,470.1	4,125.7	0.00	0.00	0.00	
10,800.0	90.00	179.79	7,180.0	-4,231.1	-1,469.7	4,225.7	0.00	0.00	0.00	
10,900.0	90.00	179.79	7,180.0	-4,331.1	-1,469.4	4,325.7	0.00	0.00	0.00	
11,000.0	90.00	179.79	7,180.0	-4,431.1	-1,469.0	4,425.7	0.00	0.00	0.00	
11,100.0	90.00	179.79	7,180.0	-4,531.1	-1,468.6	4,525.7	0.00	0.00	0.00	
11,200.0	90.00	179.79	7,180.0	-4,631.1	-1,468.2	4,625.7	0.00	0.00	0.00	
11,300.0	90.00	179.79	7,180.0	-4,731.1	-1,467.9	4,725.7	0.00	0.00	0.00	
11,400.0	90.00	179.79	7,180.0	-4,831.1	-1,467.5	4,825.7	0.00	0.00	0.00	
11,500.0	90.00	179.79	7,180.0	-4,931.1	-1,467.1	4,925.7	0.00	0.00	0.00	
11,600.0	90.00	179.79	7,180.0	-5,031.1	-1,466.8	5,025.7	0.00	0.00	0.00	
11,700.0	90.00	179.79	7,180.0	-5,131.1	-1,466.4	5,125.7	0.00	0.00	0.00	
11,800.0	90.00	179.79	7,180.0	-5,231.1	-1,466.0	5,225.7	0.00	0.00	0.00	
11,900.0	90.00	179.79	7,180.0	-5,331.1	-1,465.7	5,325.7	0.00	0.00	0.00	
12,000.0	90.00	179.79	7,180.0	-5,431.1	-1,465.3	5,425.7	0.00	0.00	0.00	
12,100.0	90.00	179.79	7,180.0	-5,531.1	-1,464.9	5,525.7	0.00	0.00	0.00	
12,200.0	90.00	179.79	7,180.0	-5,631.1	-1,464.6	5,625.7	0.00	0.00	0.00	
12,300.0	90.00	179.79	7,180.0	-5,731.1	-1,464.2	5,725.7	0.00	0.00	0.00	
12,400.0	90.00	179.79	7,180.0	-5,831.1	-1,463.8	5,825.7	0.00	0.00	0.00	

## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Jack Sleeper Com 9 & 16-23S-28E #111H
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3042.5usft
<b>Project:</b>	Rustler Breaks	<b>MD Reference:</b>	KB @ 3042.5usft
<b>Site:</b>	Jack Sleeper	<b>North Reference:</b>	Grid
<b>Well:</b>	Jack Sleeper Com 9 & 16-23S-28E #111H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	State Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
12,500.0	90.00	179.79	7,180.0	-5,931.1	-1,463.4	5,925.7	0.00	0.00	0.00	
12,600.0	90.00	179.79	7,180.0	-6,031.1	-1,463.1	6,025.7	0.00	0.00	0.00	
12,700.0	90.00	179.79	7,180.0	-6,131.1	-1,462.7	6,125.7	0.00	0.00	0.00	
12,800.0	90.00	179.79	7,180.0	-6,231.1	-1,462.3	6,225.7	0.00	0.00	0.00	
12,900.0	90.00	179.79	7,180.0	-6,331.1	-1,462.0	6,325.7	0.00	0.00	0.00	
13,000.0	90.00	179.79	7,180.0	-6,431.1	-1,461.6	6,425.7	0.00	0.00	0.00	
13,100.0	90.00	179.79	7,180.0	-6,531.1	-1,461.2	6,525.7	0.00	0.00	0.00	
13,200.0	90.00	179.79	7,180.0	-6,631.1	-1,460.9	6,625.7	0.00	0.00	0.00	
13,300.0	90.00	179.79	7,180.0	-6,731.1	-1,460.5	6,725.7	0.00	0.00	0.00	
13,400.0	90.00	179.79	7,180.0	-6,831.1	-1,460.1	6,825.7	0.00	0.00	0.00	
13,500.0	90.00	179.79	7,180.0	-6,931.1	-1,459.8	6,925.7	0.00	0.00	0.00	
13,600.0	90.00	179.79	7,180.0	-7,031.1	-1,459.4	7,025.7	0.00	0.00	0.00	
13,700.0	90.00	179.79	7,180.0	-7,131.1	-1,459.0	7,125.7	0.00	0.00	0.00	
13,800.0	90.00	179.79	7,180.0	-7,231.1	-1,458.6	7,225.7	0.00	0.00	0.00	
13,900.0	90.00	179.79	7,180.0	-7,331.1	-1,458.3	7,325.7	0.00	0.00	0.00	
14,000.0	90.00	179.79	7,180.0	-7,431.1	-1,457.9	7,425.7	0.00	0.00	0.00	
14,100.0	90.00	179.79	7,180.0	-7,531.1	-1,457.5	7,525.7	0.00	0.00	0.00	
14,200.0	90.00	179.79	7,180.0	-7,631.1	-1,457.2	7,625.7	0.00	0.00	0.00	
14,300.0	90.00	179.79	7,180.0	-7,731.1	-1,456.8	7,725.7	0.00	0.00	0.00	
14,400.0	90.00	179.79	7,180.0	-7,831.1	-1,456.4	7,825.7	0.00	0.00	0.00	
14,500.0	90.00	179.79	7,180.0	-7,931.1	-1,456.1	7,925.7	0.00	0.00	0.00	
14,600.0	90.00	179.79	7,180.0	-8,031.1	-1,455.7	8,025.7	0.00	0.00	0.00	
14,700.0	90.00	179.79	7,180.0	-8,131.1	-1,455.3	8,125.7	0.00	0.00	0.00	
14,800.0	90.00	179.79	7,180.0	-8,231.1	-1,454.9	8,225.7	0.00	0.00	0.00	
14,900.0	90.00	179.79	7,180.0	-8,331.1	-1,454.6	8,325.7	0.00	0.00	0.00	
15,000.0	90.00	179.79	7,180.0	-8,431.1	-1,454.2	8,425.7	0.00	0.00	0.00	
15,100.0	90.00	179.79	7,180.0	-8,531.1	-1,453.8	8,525.7	0.00	0.00	0.00	
15,200.0	90.00	179.79	7,180.0	-8,631.1	-1,453.5	8,625.7	0.00	0.00	0.00	
15,300.0	90.00	179.79	7,180.0	-8,731.1	-1,453.1	8,725.7	0.00	0.00	0.00	
15,400.0	90.00	179.79	7,180.0	-8,831.1	-1,452.7	8,825.7	0.00	0.00	0.00	
15,500.0	90.00	179.79	7,180.0	-8,931.1	-1,452.4	8,925.7	0.00	0.00	0.00	
15,600.0	90.00	179.79	7,180.0	-9,031.1	-1,452.0	9,025.7	0.00	0.00	0.00	
15,700.0	90.00	179.79	7,180.0	-9,131.1	-1,451.6	9,125.7	0.00	0.00	0.00	
15,800.0	90.00	179.79	7,180.0	-9,231.1	-1,451.3	9,225.7	0.00	0.00	0.00	
15,900.0	90.00	179.79	7,180.0	-9,331.1	-1,450.9	9,325.7	0.00	0.00	0.00	
16,000.0	90.00	179.79	7,180.0	-9,431.1	-1,450.5	9,425.7	0.00	0.00	0.00	
16,100.0	90.00	179.79	7,180.0	-9,531.1	-1,450.1	9,525.7	0.00	0.00	0.00	
16,200.0	90.00	179.79	7,180.0	-9,631.1	-1,449.8	9,625.7	0.00	0.00	0.00	
16,300.0	90.00	179.79	7,180.0	-9,731.1	-1,449.4	9,725.7	0.00	0.00	0.00	
16,400.0	90.00	179.79	7,180.0	-9,831.1	-1,449.0	9,825.7	0.00	0.00	0.00	
16,500.0	90.00	179.79	7,180.0	-9,931.1	-1,448.7	9,925.7	0.00	0.00	0.00	
16,600.0	90.00	179.79	7,180.0	-10,031.1	-1,448.3	10,025.7	0.00	0.00	0.00	
16,700.0	90.00	179.79	7,180.0	-10,131.1	-1,447.9	10,125.7	0.00	0.00	0.00	
16,800.0	90.00	179.79	7,180.0	-10,231.1	-1,447.6	10,225.7	0.00	0.00	0.00	
16,900.0	90.00	179.79	7,180.0	-10,331.1	-1,447.2	10,325.7	0.00	0.00	0.00	
17,000.0	90.00	179.79	7,180.0	-10,431.1	-1,446.8	10,425.7	0.00	0.00	0.00	
17,100.0	90.00	179.79	7,180.0	-10,531.1	-1,446.4	10,525.7	0.00	0.00	0.00	
17,200.0	90.00	179.79	7,180.0	-10,631.1	-1,446.1	10,625.7	0.00	0.00	0.00	
17,300.0	90.00	179.79	7,180.0	-10,731.1	-1,445.7	10,725.7	0.00	0.00	0.00	
17,400.0	90.00	179.79	7,180.0	-10,831.1	-1,445.3	10,825.7	0.00	0.00	0.00	
17,500.0	90.00	179.79	7,180.0	-10,931.1	-1,445.0	10,925.7	0.00	0.00	0.00	
17,600.0	90.00	179.79	7,180.0	-11,031.1	-1,444.6	11,025.7	0.00	0.00	0.00	
17,700.0	90.00	179.79	7,180.0	-11,131.1	-1,444.2	11,125.7	0.00	0.00	0.00	



Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Jack Sleeper Com 9 & 16-23S-28E #111H
Company:	Matador Production Company	TVD Reference:	KB @ 3042.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3042.5usft
Site:	Jack Sleeper	North Reference:	Grid
Well:	Jack Sleeper Com 9 & 16-23S-28E #111H	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)
17,800.0	90.00	179.79	7,180.0	-11,231.1	-1,443.9	11,225.7	0.00	0.00	0.00
17,900.0	90.00	179.79	7,180.0	-11,331.1	-1,443.5	11,325.7	0.00	0.00	0.00
18,000.0	90.00	179.79	7,180.0	-11,431.1	-1,443.1	11,425.7	0.00	0.00	0.00
18,100.0	90.00	179.79	7,180.0	-11,531.1	-1,442.8	11,525.7	0.00	0.00	0.00
18,146.8	90.00	179.79	7,180.0	-11,577.8	-1,442.6	11,572.5	0.00	0.00	0.00
BHL - Jack Sleeper Com 9 & 16-23S-28E #111H									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
KOP - Jack Sleeper Con	0.00	0.00	6,607.0	-594.0	-1,483.0	483,237.46	572,218.96	32° 19' 41.949 N	104° 5' 58.302 W
- plan hits target center									
- Point									
BHL - Jack Sleeper Corr	0.00	0.00	7,180.0	-11,577.8	-1,442.6	472,253.65	572,259.30	32° 17' 53.251 N	104° 5' 58.111 W
- plan hits target center									
- Point									

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
93.0	93.0	Rustler		0.00	179.79
338.0	338.0	Salado (TOP SALT)		0.00	179.79
989.8	989.0	Castile (T)		0.00	179.79
2,542.8	2,482.0	G30:CS14-CSB (BASE SALT)		0.00	179.79
2,592.0	2,529.0	G26: Bell Cyn.		0.00	179.79
3,496.6	3,394.0	G13: Cherry Cyn.		0.00	179.79
4,675.1	4,521.0	G7: Brushy Cyn.		0.00	179.79
6,296.9	6,073.0	G4: BSGL (CS9)		0.00	179.79
6,495.6	6,268.0	L8.2: U. Avalon Shale		0.00	179.79
6,661.7	6,433.0	L6.3: Avalon Carb		0.00	179.79
6,833.9	6,605.0	L6.2: L. Avalon Shale		0.00	179.79
6,981.4	6,751.0	L5.3: FBSC		0.00	179.79
7,284.2	7,011.0	L5.1: FBSG		0.00	179.79