

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 374187

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 30-015-55569
4. Property Code 326212	5. Property Name Jack Sleeper Com 9 & 16-23S-28E	6. Well No. 131H

7. Surface Location

UL - Lot N	Section 4	Township 23S	Range 28E	Lot Idn	Feet From 1034	N/S Line S	Feet From 1855	E/W Line W	County Eddy
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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 990	E/W Line W	County Eddy
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9. Pool Information

CULEBRA BLUFF;BONE SPRING, SOUTH	15011
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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 18880	18. Formation Bone Spring	19. Contractor	20. Spud Date 10/25/2024
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	444	228	0
Int1	9.875	7.625	29.7	7996	801	0
Prod	6.75	5.5	20	18880	836	7796

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

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

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

Signature:

OIL CONSERVATION DIVISION

Printed Name: Electronically filed by Brett A Jennings	Approved By: Ward Rikala
Title: Regulatory Analyst	Title: Petroleum Specialist Supervisor
Email Address: brett.jennings@matadorresources.com	Approved Date: 10/28/2024 Expiration Date: 10/28/2026
Date: 9/27/2024 Phone: 972-629-2160	Conditions of Approval Attached

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☐ Initial Submittal
			☐ Amended Report
		☐ As Drilled	

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-55569	Pool Code 15011	Pool Name CULEBRA BLUFF; BONE SPRING, SOUTH
Property Code 326212	Property Name JACK SLEEPER COM 9 & 16-23S-28E	Well Number 131H
OGRID No. 228937	Operator Name MATADOR PRODUCTION COMPANY	Ground Level Elevation 3014'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
N	4	23-S	28-E	-	1034' S	1855' W	N 32.3299802	W 104.0949611	EDDY

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
M	16	23-S	28-E	-	110' S	990' W	N 32.2982559	W 104.0978351	EDDY

Dedicated Acres 320	Infill or Defining Well -	Defining Well API -	Overlapping Spacing Unit (Y/N) -	Consolidated Code
Order Numbers			Well Setbacks are under Common Ownership: ☐ Yes ☐ No	

Kick Off Point (KOP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
D	9	23-S	28-E	-	50' N	955' W	N 32.3270010	W 104.0979980	EDDY

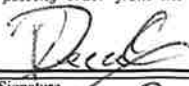
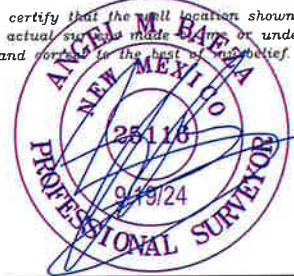
First Take Point (FTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
D	9	23-S	28-E	-	100' N	956' W	N 32.3268636	W 104.0979972	EDDY

Last Take Point (LTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
M	16	23-S	28-E	-	110' S	990' W	N 32.2982559	W 104.0978351	EDDY

Unitized Area or Area of Uniform Interest -	Spacing Unity Type ☐ Horizontal ☐ Vertical	Ground Floor Elevation
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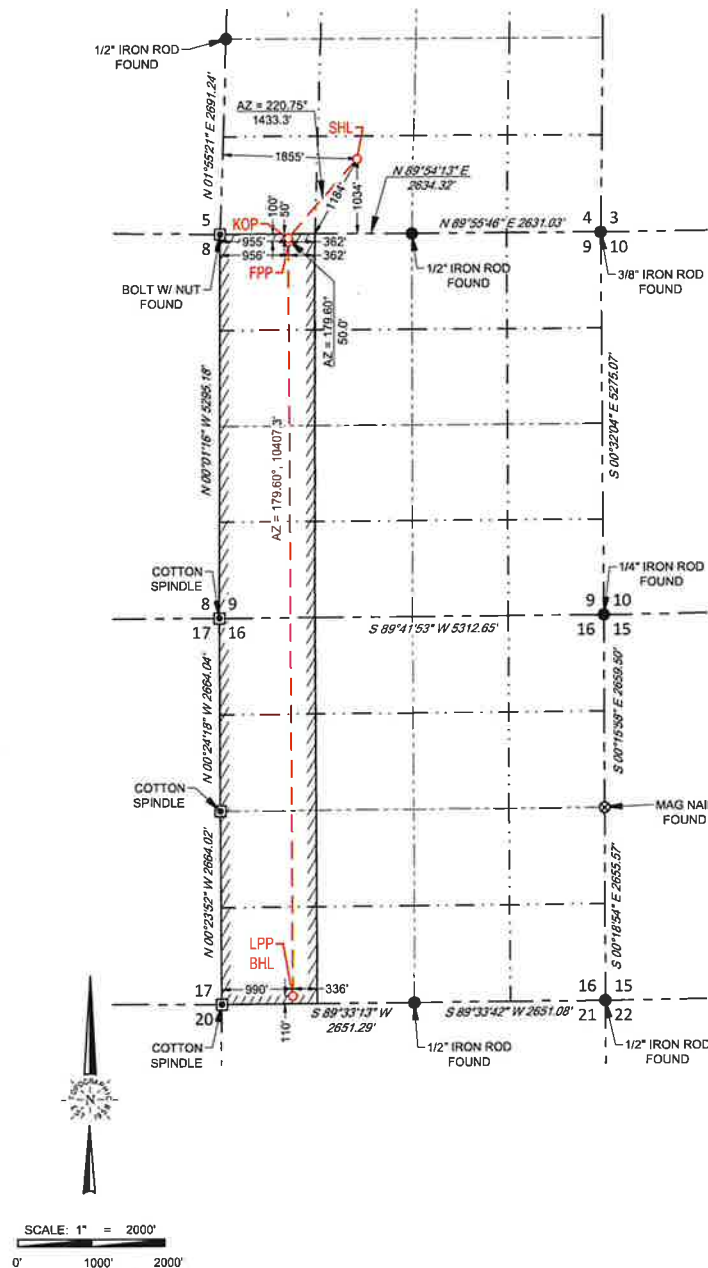
OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received The consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i>  Signature <u>Reece Clark</u> Date <u>9/19/24</u> Print Name <u>reece.clark@matadorresources.com</u> E-mail Address	SURVEYORS CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual survey made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>  Signature and Seal of Professional Surveyor <u>Angel M. Baeza</u> Date <u>09/12/2024</u> Certificate Number Date of Survey <u>09/12/2024</u>
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C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024 Submittal Type: ☐ Initial Submittal ☐ Amended Report ☐ As Drilled
Property Name and Well Number JACK SLEEPER COM 9 & 16-23S-28E 131H		

SURFACE LOCATION (SHL) NEW MEXICO EAST NAD 1983 X=614964 Y=483861 LAT.: N 32.3299802 LONG.: W 104.0949611 NAD 1927 X=573782 Y=483801 LAT.: N 32.3298598 LONG.: W 104.0944644 1034' FSL 1855' FWL KICK OFF POINT (KOP) NEW MEXICO EAST NAD 1983 X=614029 Y=482775 LAT.: N 32.3270010 LONG.: W 104.0979980 NAD 1927 X=572846 Y=482716 LAT.: N 32.3268807 LONG.: W 104.0975012 50' FNL 955' FWL	The map shows a well path starting from the KOP, passing through the FPP, and ending at the BHL. The SHL is located near the KOP. The map includes a grid with section numbers (e.g., 5, 8, 9, 10, 16, 17, 20, 21, 22) and various survey points with their NAD 1983 and NAD 1927 coordinates. Bearings and distances are provided for several segments of the well path.	FIRST PERF. POINT (FPP) NEW MEXICO EAST NAD 1983 X=614029 Y=482725 LAT.: N 32.3268636 LONG.: W 104.0979972 NAD 1927 X=572847 Y=482666 LAT.: N 32.3267432 LONG.: W 104.0975005 100' FNL 956' FWL LAST PERF. POINT (LPP) BOTTOM HOLE LOCATION (BHL) NEW MEXICO EAST NAD 1983 X=614102 Y=472318 LAT.: N 32.2982559 LONG.: W 104.0978351 NAD 1927 X=572919 Y=472259 LAT.: N 32.2981354 LONG.: W 104.0973394 110' FSL 990' FWL
SURVEYORS 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. 09/12/2024 Date of Survey Signature and Seal of Professional Surveyor:		



SECTION 4, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



SURFACE LOCATION (SHL)

NEW MEXICO EAST
NAD 1983
X=614964 Y=483861
LAT.: N 32.3299802
LONG.: W 104.0949611
1034' FSL 1855' FWL

KICK OFF POINT (KOP)

NEW MEXICO EAST
NAD 1983
X=614029 Y=482775
LAT.: N 32.3270010
LONG.: W 104.0979980
50' FNL 955' FWL

FIRST PERF. POINT (FPP)

NEW MEXICO EAST
NAD 1983
X=614029 Y=482725
LAT.: N 32.3268636
LONG.: W 104.0979972
100' FNL 956' FWL

LAST PERF. POINT (LPP)

BOTTOM HOLE LOCATION (BHL)

NEW MEXICO EAST
NAD 1983
X=614102 Y=472318
LAT.: N 32.2982559
LONG.: W 104.0978351
110' FSL 990' FWL

LEASE NAME & WELL NO.: JACK SLEEPER COM 9 & 16-23S-28E 131H

SECTION 4 TWP 23-S RGE 28-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 1034' FSL & 1855' FWL

DISTANCE & DIRECTION

FROM INT. OF NM-31 N. & HWY. 387. GO EAST ON NM-31 ±2.0 MILES.
THENCE NORTH (LEFT) ON REFINERY RD. FOR ±2.6 MILES. THENCE
SOUTHWEST (LEFT) ON A LEASE RD. FOR ±1.2 MILES. THENCE WEST
(LEFT) ON HERRADURA BEND RD. FOR ±0.7 MILES. THENCE
SOUTHWEST (RIGHT) ON A PROPOSED RD. ±3305 FEET TO A POINT ±269
FEET SOUTHEAST OF THE LOCATION.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.
AS OF THE DATE OF SURVEY, ALL ABOVE GROUND APPURTENANCES WITHIN 300' OF THE STAKED LOCATION ARE SHOWN HEREON.



Angel M. Baeza, P.S. No. 25118



481 WINSOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX: (817) 744-7554
2903 NORTH BIS SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 582-1653 OR (800) 767-1653 • FAX: (432) 682-1743
WWW.TOPOGRAPHIC.COM

\\SURVEY\MATADOR_RESOURCES\JACK_SLEEPER_23-28E\FINAL_PRODUCT\BULO_JACK_SLEEPER_COM_9_16_23S-28E_131H.DWG 9/18/2024 3:57:15 PM adbae



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

Form APD Conditions

Permit 374187

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:		API Number:
MATADOR PRODUCTION COMPANY [228937]		30-015-55569
One Lincoln Centre		Well:
Dallas, TX 75240		Jack Sleeper Com 9 & 16-23S-28E #131H

OCD	Condition
Reviewer	
ward.rikala	Notify OCD 24 hours prior to casing & cement
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the 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	If cement does not circulate on any string, a CBL is required for that string 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
ward.rikala	C-103NOI will need to be submitted to remove the pit off of the APD.

Well Name: Jack Sleeper State Com #131H										
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	444	0	228	0	Option to drill surface hole with surface setting rig
INT 1	Diesel Brine Emulsion	9.875	7.625	P-110	29.70	7996	0	801	0	Option to cement surface casing offline
PROD	OBM	6.75	5.5	P-110	20.00	18880	0	836	7796	Optional DV tool and packer.

Matador Production Company

Rustler Breaks

Jack Sleeper

Jack Sleeper Com 09 & 16-23S-28E RB 131H

Wellbore #1

Plan: State Plan #1

Standard Planning Report

25 September, 2024

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Jack Sleeper Com09 & 16-23S-28E RB 131H
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 09 & 16-23S-28E RB 131H	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 09 & 16-23S-28E RB 131H		
Well Position	+N/-S	883.7 usft	Northing:
	+E/-W	1,758.1 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/19/2024	6.42	59.98	47,204.36132567

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	179.60

Plan Survey Tool Program	Date	9/25/2024		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	18,879.7	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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,100.0	12.00	214.71	1,095.6	-51.5	-35.6	2.00	2.00	0.00	214.71	
7,004.8	12.00	214.71	6,871.3	-1,060.7	-734.6	0.00	0.00	0.00	0.00	
7,804.8	0.00	0.00	7,665.5	-1,129.3	-782.2	1.50	-1.50	0.00	180.00	
8,096.2	0.00	0.00	7,957.0	-1,129.3	-782.2	0.00	0.00	0.00	0.00	KOP - Jack Sleeper
8,996.2	90.00	179.60	8,530.0	-1,702.3	-778.2	10.00	10.00	0.00	179.60	BHL - Jack Sleeper
18,879.7	90.00	179.60	8,530.0	-11,585.5	-709.1	0.00	0.00	0.00	0.00	BHL - Jack Sleeper

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Jack Sleeper Com09 & 16-23S-28E RB 131H
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 09 & 16-23S-28E RB 131H	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
20.6	0.00	0.00	20.6	0.0	0.0	0.0	0.00	0.00	0.00
Z (Modern Surface)									
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
376.0	0.00	0.00	376.0	0.0	0.0	0.0	0.00	0.00	0.00
Z (Rustler)									
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	2.00	214.71	600.0	-1.4	-1.0	1.4	2.00	2.00	0.00
617.7	2.35	214.71	617.7	-2.0	-1.4	2.0	2.00	2.00	0.00
Z (Salado)									
700.0	4.00	214.71	699.8	-5.7	-4.0	5.7	2.00	2.00	0.00
800.0	6.00	214.71	799.5	-12.9	-8.9	12.8	2.00	2.00	0.00
900.0	8.00	214.71	898.7	-22.9	-15.9	22.8	2.00	2.00	0.00
974.6	9.49	214.71	972.5	-32.2	-22.3	32.1	2.00	2.00	0.00
Z (Castile (T))									
1,000.0	10.00	214.71	997.5	-35.8	-24.8	35.6	2.00	2.00	0.00
1,100.0	12.00	214.71	1,095.6	-51.5	-35.6	51.2	2.00	2.00	0.00
1,200.0	12.00	214.71	1,193.4	-68.6	-47.5	68.2	0.00	0.00	0.00
1,300.0	12.00	214.71	1,291.3	-85.6	-59.3	85.2	0.00	0.00	0.00
1,400.0	12.00	214.71	1,389.1	-102.7	-71.2	102.2	0.00	0.00	0.00
1,500.0	12.00	214.71	1,486.9	-119.8	-83.0	119.3	0.00	0.00	0.00
1,600.0	12.00	214.71	1,584.7	-136.9	-94.8	136.3	0.00	0.00	0.00
1,700.0	12.00	214.71	1,682.5	-154.0	-106.7	153.3	0.00	0.00	0.00
1,800.0	12.00	214.71	1,780.3	-171.1	-118.5	170.3	0.00	0.00	0.00
1,900.0	12.00	214.71	1,878.1	-188.2	-130.3	187.3	0.00	0.00	0.00
2,000.0	12.00	214.71	1,976.0	-205.3	-142.2	204.3	0.00	0.00	0.00
2,100.0	12.00	214.71	2,073.8	-222.4	-154.0	221.3	0.00	0.00	0.00
2,200.0	12.00	214.71	2,171.6	-239.5	-165.9	238.3	0.00	0.00	0.00
2,300.0	12.00	214.71	2,269.4	-256.6	-177.7	255.3	0.00	0.00	0.00
2,400.0	12.00	214.71	2,367.2	-273.7	-189.5	272.3	0.00	0.00	0.00
2,500.0	12.00	214.71	2,465.0	-290.8	-201.4	289.3	0.00	0.00	0.00
2,542.6	12.00	214.71	2,506.7	-298.0	-206.4	296.6	0.00	0.00	0.00
Z (G30:CS14-CSB)									
2,578.2	12.00	214.71	2,541.5	-304.1	-210.6	302.6	0.00	0.00	0.00
Z (G26: Bell Cyn.)									
2,600.0	12.00	214.71	2,562.8	-307.8	-213.2	306.4	0.00	0.00	0.00
2,700.0	12.00	214.71	2,660.7	-324.9	-225.0	323.4	0.00	0.00	0.00
2,800.0	12.00	214.71	2,758.5	-342.0	-236.9	340.4	0.00	0.00	0.00
2,900.0	12.00	214.71	2,856.3	-359.1	-248.7	357.4	0.00	0.00	0.00
3,000.0	12.00	214.71	2,954.1	-376.2	-260.6	374.4	0.00	0.00	0.00
3,100.0	12.00	214.71	3,051.9	-393.3	-272.4	391.4	0.00	0.00	0.00
3,200.0	12.00	214.71	3,149.7	-410.4	-284.2	408.4	0.00	0.00	0.00
3,300.0	12.00	214.71	3,247.5	-427.5	-296.1	425.4	0.00	0.00	0.00
3,400.0	12.00	214.71	3,345.4	-444.6	-307.9	442.4	0.00	0.00	0.00
3,429.8	12.00	214.71	3,374.6	-449.7	-311.4	447.5	0.00	0.00	0.00
Z (G16: Manzanita)									
3,484.7	12.00	214.71	3,428.2	-459.1	-317.9	456.8	0.00	0.00	0.00
Z (G13: Cherry Cyn.)									
3,500.0	12.00	214.71	3,443.2	-461.7	-319.7	459.4	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Jack Sleeper Com 09 & 16-23S-28E RB 131H
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 09 & 16-23S-28E RB 131H	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)
3,600.0	12.00	214.71	3,541.0	-478.8	-331.6	476.4	0.00	0.00	0.00
3,700.0	12.00	214.71	3,638.8	-495.9	-343.4	493.5	0.00	0.00	0.00
3,800.0	12.00	214.71	3,736.6	-513.0	-355.3	510.5	0.00	0.00	0.00
3,900.0	12.00	214.71	3,834.4	-530.0	-367.1	527.5	0.00	0.00	0.00
4,000.0	12.00	214.71	3,932.3	-547.1	-378.9	544.5	0.00	0.00	0.00
4,100.0	12.00	214.71	4,030.1	-564.2	-390.8	561.5	0.00	0.00	0.00
4,200.0	12.00	214.71	4,127.9	-581.3	-402.6	578.5	0.00	0.00	0.00
4,300.0	12.00	214.71	4,225.7	-598.4	-414.4	595.5	0.00	0.00	0.00
4,400.0	12.00	214.71	4,323.5	-615.5	-426.3	612.5	0.00	0.00	0.00
4,500.0	12.00	214.71	4,421.3	-632.6	-438.1	629.5	0.00	0.00	0.00
4,600.0	12.00	214.71	4,519.1	-649.7	-450.0	646.5	0.00	0.00	0.00
4,659.8	12.00	214.71	4,577.7	-659.9	-457.0	656.7	0.00	0.00	0.00
Z (G7: Brushy Cyn.)									
4,700.0	12.00	214.71	4,617.0	-666.8	-461.8	663.5	0.00	0.00	0.00
4,800.0	12.00	214.71	4,714.8	-683.9	-473.6	680.6	0.00	0.00	0.00
4,900.0	12.00	214.71	4,812.6	-701.0	-485.5	697.6	0.00	0.00	0.00
5,000.0	12.00	214.71	4,910.4	-718.1	-497.3	714.6	0.00	0.00	0.00
5,100.0	12.00	214.71	5,008.2	-735.2	-509.2	731.6	0.00	0.00	0.00
5,200.0	12.00	214.71	5,106.0	-752.2	-521.0	748.6	0.00	0.00	0.00
5,300.0	12.00	214.71	5,203.8	-769.3	-532.8	765.6	0.00	0.00	0.00
5,400.0	12.00	214.71	5,301.7	-786.4	-544.7	782.6	0.00	0.00	0.00
5,500.0	12.00	214.71	5,399.5	-803.5	-556.5	799.6	0.00	0.00	0.00
5,600.0	12.00	214.71	5,497.3	-820.6	-568.3	816.6	0.00	0.00	0.00
5,700.0	12.00	214.71	5,595.1	-837.7	-580.2	833.6	0.00	0.00	0.00
5,800.0	12.00	214.71	5,692.9	-854.8	-592.0	850.6	0.00	0.00	0.00
5,900.0	12.00	214.71	5,790.7	-871.9	-603.9	867.7	0.00	0.00	0.00
6,000.0	12.00	214.71	5,888.5	-889.0	-615.7	884.7	0.00	0.00	0.00
6,100.0	12.00	214.71	5,986.4	-906.1	-627.5	901.7	0.00	0.00	0.00
6,200.0	12.00	214.71	6,084.2	-923.2	-639.4	918.7	0.00	0.00	0.00
6,209.1	12.00	214.71	6,093.1	-924.7	-640.4	920.2	0.00	0.00	0.00
Z (G4: BSGI (CS9))									
6,285.5	12.00	214.71	6,167.8	-937.8	-649.5	933.2	0.00	0.00	0.00
Z (G4.1: AVALON-SS)									
6,300.0	12.00	214.71	6,182.0	-940.3	-651.2	935.7	0.00	0.00	0.00
6,327.4	12.00	214.71	6,208.8	-944.9	-654.4	940.3	0.00	0.00	0.00
Z (G3.3: Avalon SS (B))									
6,400.0	12.00	214.71	6,279.8	-957.3	-663.0	952.7	0.00	0.00	0.00
6,421.2	12.00	214.71	6,300.5	-961.0	-665.6	956.3	0.00	0.00	0.00
Z (L6.2: U. Avalon Shale)									
6,500.0	12.00	214.71	6,377.6	-974.4	-674.9	969.7	0.00	0.00	0.00
6,599.9	12.00	214.71	6,475.3	-991.5	-686.7	986.7	0.00	0.00	0.00
Z (L6.3: Avalon Carb)									
6,600.0	12.00	214.71	6,475.4	-991.5	-686.7	986.7	0.00	0.00	0.00
6,700.0	12.00	214.71	6,573.2	-1,008.6	-698.6	1,003.7	0.00	0.00	0.00
6,767.6	12.00	214.71	6,639.4	-1,020.2	-706.6	1,015.2	0.00	0.00	0.00
Z (L6.2: L. Avalon Shale)									
6,800.0	12.00	214.71	6,671.1	-1,025.7	-710.4	1,020.7	0.00	0.00	0.00
6,900.0	12.00	214.71	6,768.9	-1,042.8	-722.2	1,037.7	0.00	0.00	0.00
6,942.0	12.00	214.71	6,809.9	-1,050.0	-727.2	1,044.9	0.00	0.00	0.00
Z (L5.3: FBSC)									
7,000.0	12.00	214.71	6,866.7	-1,059.9	-734.1	1,054.8	0.00	0.00	0.00
7,004.8	12.00	214.71	6,871.3	-1,060.7	-734.6	1,055.6	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Jack Sleeper Com 09 & 16-23S-28E RB 131H
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 09 & 16-23S-28E RB 131H	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)	
7,100.0	10.57	214.71	6,964.7	-1,076.0	-745.2	1,070.8	1.50	-1.50	0.00	
7,199.2	9.08	214.71	7,062.5	-1,090.0	-754.9	1,084.7	1.50	-1.50	0.00	
Z (L5.1: FBSG)										
7,200.0	9.07	214.71	7,063.3	-1,090.1	-755.0	1,084.8	1.50	-1.50	0.00	
7,252.2	8.29	214.71	7,114.9	-1,096.5	-759.4	1,091.2	1.50	-1.50	0.00	
Z (M. FBSG)										
7,300.0	7.57	214.71	7,162.2	-1,102.0	-763.2	1,096.6	1.50	-1.50	0.00	
7,368.9	6.54	214.71	7,230.6	-1,108.9	-768.0	1,103.5	1.50	-1.50	0.00	
Z (L. FBSG)										
7,400.0	6.07	214.71	7,261.5	-1,111.7	-770.0	1,106.3	1.50	-1.50	0.00	
7,457.5	5.21	214.71	7,318.8	-1,116.4	-773.2	1,110.9	1.50	-1.50	0.00	
Z (L4.3: SBSC)										
7,500.0	4.57	214.71	7,361.1	-1,119.3	-775.2	1,113.9	1.50	-1.50	0.00	
7,600.0	3.07	214.71	7,460.9	-1,124.8	-779.0	1,119.4	1.50	-1.50	0.00	
7,700.0	1.57	214.71	7,560.8	-1,128.2	-781.3	1,122.7	1.50	-1.50	0.00	
7,800.0	0.07	214.71	7,660.8	-1,129.3	-782.2	1,123.8	1.50	-1.50	0.00	
7,804.8	0.00	0.00	7,665.5	-1,129.3	-782.2	1,123.8	1.50	-1.50	0.00	
7,900.0	0.00	0.00	7,760.8	-1,129.3	-782.2	1,123.8	0.00	0.00	0.00	
7,935.4	0.00	0.00	7,796.2	-1,129.3	-782.2	1,123.8	0.00	0.00	0.00	
Z (L4.1: SBSC)										
8,000.0	0.00	0.00	7,860.8	-1,129.3	-782.2	1,123.8	0.00	0.00	0.00	
8,061.2	0.00	0.00	7,921.9	-1,129.3	-782.2	1,123.8	0.00	0.00	0.00	
Z (L4.1: SBSC B Carb)										
8,096.2	0.00	0.00	7,957.0	-1,129.3	-782.2	1,123.8	0.00	0.00	0.00	
KOP - Jack Sleeper 131H										
8,100.0	0.38	179.60	7,960.8	-1,129.3	-782.2	1,123.9	10.00	10.00	0.00	
8,134.7	3.85	179.60	7,995.5	-1,130.6	-782.1	1,125.1	10.00	10.00	0.00	
Z (SBSC B Target)										
8,200.0	10.38	179.60	8,060.2	-1,138.7	-782.1	1,133.2	10.00	10.00	0.00	
8,264.9	16.87	179.60	8,123.3	-1,154.0	-782.0	1,148.5	10.00	10.00	0.00	
Z (L4.1: SBSC C)										
8,272.8	17.66	179.60	8,130.8	-1,156.3	-782.0	1,150.8	10.00	10.00	0.00	
Z (L3.3: TBSC)										
8,300.0	20.38	179.60	8,156.5	-1,165.2	-781.9	1,159.7	10.00	10.00	0.00	
8,400.0	30.38	179.60	8,246.7	-1,208.0	-781.6	1,202.5	10.00	10.00	0.00	
8,500.0	40.38	179.60	8,328.2	-1,265.8	-781.2	1,260.3	10.00	10.00	0.00	
8,580.3	48.41	179.60	8,385.5	-1,322.0	-780.8	1,316.5	10.00	10.00	0.00	
FTP - Jack Sleeper 131H										
8,600.0	50.38	179.60	8,398.3	-1,336.9	-780.7	1,331.4	10.00	10.00	0.00	
8,700.0	60.38	179.60	8,455.1	-1,419.1	-780.1	1,413.6	10.00	10.00	0.00	
8,785.8	68.95	179.60	8,491.7	-1,496.5	-779.6	1,491.1	10.00	10.00	0.00	
Z (L3.3.2: Break Sand (T))										
8,800.0	70.38	179.60	8,496.7	-1,509.9	-779.5	1,504.4	10.00	10.00	0.00	
8,900.0	80.38	179.60	8,521.9	-1,606.5	-778.8	1,601.0	10.00	10.00	0.00	
8,996.2	90.00	179.60	8,530.0	-1,702.3	-778.2	1,696.8	10.00	10.00	0.00	
9,000.0	90.00	179.60	8,530.0	-1,706.0	-778.1	1,700.6	0.00	0.00	0.00	
9,100.0	90.00	179.60	8,530.0	-1,806.0	-777.4	1,800.6	0.00	0.00	0.00	
9,200.0	90.00	179.60	8,530.0	-1,906.0	-776.7	1,900.6	0.00	0.00	0.00	
9,300.0	90.00	179.60	8,530.0	-2,006.0	-776.0	2,000.6	0.00	0.00	0.00	
9,400.0	90.00	179.60	8,530.0	-2,106.0	-775.3	2,100.6	0.00	0.00	0.00	
9,500.0	90.00	179.60	8,530.0	-2,206.0	-774.6	2,200.6	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Jack Sleeper Com09 & 16-23S-28E RB 131H
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 09 & 16-23S-28E RB 131H	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)
9,600.0	90.00	179.60	8,530.0	-2,306.0	-773.9	2,300.6	0.00	0.00	0.00
9,700.0	90.00	179.60	8,530.0	-2,406.0	-773.2	2,400.6	0.00	0.00	0.00
9,800.0	90.00	179.60	8,530.0	-2,506.0	-772.5	2,500.6	0.00	0.00	0.00
9,900.0	90.00	179.60	8,530.0	-2,606.0	-771.8	2,600.6	0.00	0.00	0.00
10,000.0	90.00	179.60	8,530.0	-2,706.0	-771.1	2,700.6	0.00	0.00	0.00
10,100.0	90.00	179.60	8,530.0	-2,806.0	-770.4	2,800.6	0.00	0.00	0.00
10,200.0	90.00	179.60	8,530.0	-2,906.0	-769.7	2,900.6	0.00	0.00	0.00
10,300.0	90.00	179.60	8,530.0	-3,006.0	-769.0	3,000.6	0.00	0.00	0.00
10,400.0	90.00	179.60	8,530.0	-3,106.0	-768.3	3,100.6	0.00	0.00	0.00
10,500.0	90.00	179.60	8,530.0	-3,206.0	-767.6	3,200.6	0.00	0.00	0.00
10,600.0	90.00	179.60	8,530.0	-3,306.0	-766.9	3,300.6	0.00	0.00	0.00
10,700.0	90.00	179.60	8,530.0	-3,406.0	-766.2	3,400.6	0.00	0.00	0.00
10,800.0	90.00	179.60	8,530.0	-3,506.0	-765.5	3,500.6	0.00	0.00	0.00
10,900.0	90.00	179.60	8,530.0	-3,606.0	-764.8	3,600.6	0.00	0.00	0.00
11,000.0	90.00	179.60	8,530.0	-3,706.0	-764.1	3,700.6	0.00	0.00	0.00
11,100.0	90.00	179.60	8,530.0	-3,806.0	-763.4	3,800.6	0.00	0.00	0.00
11,200.0	90.00	179.60	8,530.0	-3,906.0	-762.7	3,900.6	0.00	0.00	0.00
11,300.0	90.00	179.60	8,530.0	-4,006.0	-762.0	4,000.6	0.00	0.00	0.00
11,400.0	90.00	179.60	8,530.0	-4,106.0	-761.4	4,100.6	0.00	0.00	0.00
11,500.0	90.00	179.60	8,530.0	-4,206.0	-760.7	4,200.6	0.00	0.00	0.00
11,600.0	90.00	179.60	8,530.0	-4,306.0	-760.0	4,300.6	0.00	0.00	0.00
11,700.0	90.00	179.60	8,530.0	-4,406.0	-759.3	4,400.6	0.00	0.00	0.00
11,800.0	90.00	179.60	8,530.0	-4,506.0	-758.6	4,500.6	0.00	0.00	0.00
11,900.0	90.00	179.60	8,530.0	-4,606.0	-757.9	4,600.6	0.00	0.00	0.00
12,000.0	90.00	179.60	8,530.0	-4,706.0	-757.2	4,700.6	0.00	0.00	0.00
12,100.0	90.00	179.60	8,530.0	-4,806.0	-756.5	4,800.6	0.00	0.00	0.00
12,200.0	90.00	179.60	8,530.0	-4,906.0	-755.8	4,900.6	0.00	0.00	0.00
12,300.0	90.00	179.60	8,530.0	-5,006.0	-755.1	5,000.6	0.00	0.00	0.00
12,400.0	90.00	179.60	8,530.0	-5,105.9	-754.4	5,100.6	0.00	0.00	0.00
12,500.0	90.00	179.60	8,530.0	-5,205.9	-753.7	5,200.6	0.00	0.00	0.00
12,600.0	90.00	179.60	8,530.0	-5,305.9	-753.0	5,300.6	0.00	0.00	0.00
12,700.0	90.00	179.60	8,530.0	-5,405.9	-752.3	5,400.6	0.00	0.00	0.00
12,800.0	90.00	179.60	8,530.0	-5,505.9	-751.6	5,500.6	0.00	0.00	0.00
12,900.0	90.00	179.60	8,530.0	-5,605.9	-750.9	5,600.6	0.00	0.00	0.00
13,000.0	90.00	179.60	8,530.0	-5,705.9	-750.2	5,700.6	0.00	0.00	0.00
13,100.0	90.00	179.60	8,530.0	-5,805.9	-749.5	5,800.6	0.00	0.00	0.00
13,200.0	90.00	179.60	8,530.0	-5,905.9	-748.8	5,900.6	0.00	0.00	0.00
13,300.0	90.00	179.60	8,530.0	-6,005.9	-748.1	6,000.6	0.00	0.00	0.00
13,400.0	90.00	179.60	8,530.0	-6,105.9	-747.4	6,100.6	0.00	0.00	0.00
13,500.0	90.00	179.60	8,530.0	-6,205.9	-746.7	6,200.6	0.00	0.00	0.00
13,600.0	90.00	179.60	8,530.0	-6,305.9	-746.0	6,300.6	0.00	0.00	0.00
13,700.0	90.00	179.60	8,530.0	-6,405.9	-745.3	6,400.6	0.00	0.00	0.00
13,800.0	90.00	179.60	8,530.0	-6,505.9	-744.6	6,500.6	0.00	0.00	0.00
13,900.0	90.00	179.60	8,530.0	-6,605.9	-743.9	6,600.6	0.00	0.00	0.00
14,000.0	90.00	179.60	8,530.0	-6,705.9	-743.2	6,700.6	0.00	0.00	0.00
14,100.0	90.00	179.60	8,530.0	-6,805.9	-742.5	6,800.6	0.00	0.00	0.00
14,200.0	90.00	179.60	8,530.0	-6,905.9	-741.8	6,900.6	0.00	0.00	0.00
14,300.0	90.00	179.60	8,530.0	-7,005.9	-741.1	7,000.6	0.00	0.00	0.00
14,400.0	90.00	179.60	8,530.0	-7,105.9	-740.4	7,100.6	0.00	0.00	0.00
14,500.0	90.00	179.60	8,530.0	-7,205.9	-739.7	7,200.6	0.00	0.00	0.00
14,600.0	90.00	179.60	8,530.0	-7,305.9	-739.0	7,300.6	0.00	0.00	0.00
14,700.0	90.00	179.60	8,530.0	-7,405.9	-738.3	7,400.6	0.00	0.00	0.00
14,800.0	90.00	179.60	8,530.0	-7,505.9	-737.6	7,500.6	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Jack Sleeper Com 09 & 16-23S-28E RB 131H
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 09 & 16-23S-28E RB 131H	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)
14,900.0	90.00	179.60	8,530.0	-7,605.9	-736.9	7,600.6	0.00	0.00	0.00
15,000.0	90.00	179.60	8,530.0	-7,705.9	-736.2	7,700.6	0.00	0.00	0.00
15,100.0	90.00	179.60	8,530.0	-7,805.9	-735.5	7,800.6	0.00	0.00	0.00
15,200.0	90.00	179.60	8,530.0	-7,905.9	-734.8	7,900.6	0.00	0.00	0.00
15,300.0	90.00	179.60	8,530.0	-8,005.9	-734.1	8,000.6	0.00	0.00	0.00
15,400.0	90.00	179.60	8,530.0	-8,105.9	-733.4	8,100.6	0.00	0.00	0.00
15,500.0	90.00	179.60	8,530.0	-8,205.9	-732.7	8,200.6	0.00	0.00	0.00
15,600.0	90.00	179.60	8,530.0	-8,305.9	-732.0	8,300.6	0.00	0.00	0.00
15,700.0	90.00	179.60	8,530.0	-8,405.9	-731.3	8,400.6	0.00	0.00	0.00
15,800.0	90.00	179.60	8,530.0	-8,505.9	-730.6	8,500.6	0.00	0.00	0.00
15,900.0	90.00	179.60	8,530.0	-8,605.9	-729.9	8,600.6	0.00	0.00	0.00
16,000.0	90.00	179.60	8,530.0	-8,705.9	-729.2	8,700.6	0.00	0.00	0.00
16,100.0	90.00	179.60	8,530.0	-8,805.9	-728.5	8,800.6	0.00	0.00	0.00
16,200.0	90.00	179.60	8,530.0	-8,905.9	-727.8	8,900.6	0.00	0.00	0.00
16,300.0	90.00	179.60	8,530.0	-9,005.9	-727.1	9,000.6	0.00	0.00	0.00
16,400.0	90.00	179.60	8,530.0	-9,105.9	-726.4	9,100.6	0.00	0.00	0.00
16,500.0	90.00	179.60	8,530.0	-9,205.8	-725.7	9,200.6	0.00	0.00	0.00
16,600.0	90.00	179.60	8,530.0	-9,305.8	-725.0	9,300.6	0.00	0.00	0.00
16,700.0	90.00	179.60	8,530.0	-9,405.8	-724.3	9,400.6	0.00	0.00	0.00
16,800.0	90.00	179.60	8,530.0	-9,505.8	-723.6	9,500.6	0.00	0.00	0.00
16,900.0	90.00	179.60	8,530.0	-9,605.8	-722.9	9,600.6	0.00	0.00	0.00
17,000.0	90.00	179.60	8,530.0	-9,705.8	-722.2	9,700.6	0.00	0.00	0.00
17,100.0	90.00	179.60	8,530.0	-9,805.8	-721.5	9,800.6	0.00	0.00	0.00
17,200.0	90.00	179.60	8,530.0	-9,905.8	-720.8	9,900.6	0.00	0.00	0.00
17,300.0	90.00	179.60	8,530.0	-10,005.8	-720.1	10,000.6	0.00	0.00	0.00
17,400.0	90.00	179.60	8,530.0	-10,105.8	-719.4	10,100.6	0.00	0.00	0.00
17,500.0	90.00	179.60	8,530.0	-10,205.8	-718.7	10,200.6	0.00	0.00	0.00
17,600.0	90.00	179.60	8,530.0	-10,305.8	-718.0	10,300.6	0.00	0.00	0.00
17,700.0	90.00	179.60	8,530.0	-10,405.8	-717.3	10,400.6	0.00	0.00	0.00
17,800.0	90.00	179.60	8,530.0	-10,505.8	-716.6	10,500.6	0.00	0.00	0.00
17,900.0	90.00	179.60	8,530.0	-10,605.8	-715.9	10,600.6	0.00	0.00	0.00
18,000.0	90.00	179.60	8,530.0	-10,705.8	-715.2	10,700.6	0.00	0.00	0.00
18,100.0	90.00	179.60	8,530.0	-10,805.8	-714.5	10,800.6	0.00	0.00	0.00
18,200.0	90.00	179.60	8,530.0	-10,905.8	-713.8	10,900.6	0.00	0.00	0.00
18,300.0	90.00	179.60	8,530.0	-11,005.8	-713.1	11,000.6	0.00	0.00	0.00
18,400.0	90.00	179.60	8,530.0	-11,105.8	-712.4	11,100.6	0.00	0.00	0.00
18,500.0	90.00	179.60	8,530.0	-11,205.8	-711.7	11,200.6	0.00	0.00	0.00
18,600.0	90.00	179.60	8,530.0	-11,305.8	-711.0	11,300.6	0.00	0.00	0.00
18,700.0	90.00	179.60	8,530.0	-11,405.8	-710.3	11,400.6	0.00	0.00	0.00
18,800.0	90.00	179.60	8,530.0	-11,505.8	-709.6	11,500.6	0.00	0.00	0.00
18,879.7	90.00	179.60	8,530.0	-11,585.5	-709.1	11,580.3	0.00	0.00	0.00
BHL - Jack Sleeper 131H									

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Jack Sleeper Com09 & 16-23S-28E RB 131H
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 09 & 16-23S-28E RB 131H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
KOP - Jack Sleeper 1: - plan hits target center - Point	0.00	0.00	7,957.0	-1,129.3	-782.2	482,715.54	572,846.26	32° 19' 36.771 N	104° 5' 51.004 W
FTP - Jack Sleeper 1: - plan misses target center by 203.0usft at 8580.3usft MD (8385.5 TVD, -1322.0 N, -780.8 E) - Point	0.00	0.00	8,530.0	-1,179.3	-781.8	482,665.52	572,846.58	32° 19' 36.276 N	104° 5' 51.002 W
BHL - Jack Sleeper 1: - plan hits target center - Point	0.00	0.00	8,530.0	-11,585.5	-709.1	472,258.81	572,919.26	32° 17' 53.287 N	104° 5' 50.422 W

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
20.6	20.6	Z (Modern Surface)				
376.0	376.0	Z (Rustler)				
617.7	617.7	Z (Salado)		0.00		
974.6	972.5	Z (Castile (T))				
2,542.6	2,506.7	Z (G30:CS14-CSB)				
2,578.2	2,541.5	Z (G26: Bell Cyn.)				
3,429.8	3,374.6	Z (G16: Manzanita)				
3,484.7	3,428.2	Z (G13: Cherry Cyn.)				
4,659.8	4,577.7	Z (G7: Brushy Cyn.)				
6,209.1	6,093.1	Z (G4: BSGL (CS9))				
6,285.5	6,167.8	Z (G4.1: AVALON-SS)				
6,327.4	6,208.8	Z (G3.3: Avalon SS (B))				
6,421.2	6,300.5	Z (L8.2: U. Avalon Shale)				
6,599.9	6,475.3	Z (L6.3: Avalon Carb)				
6,767.6	6,639.4	Z (L6.2: L. Avalon Shale)				
6,942.0	6,809.9	Z (L5.3: FBSC)				
7,199.2	7,062.5	Z (L5.1: FBSC)				
7,252.2	7,114.9	Z (M. FBSC)				
7,368.9	7,230.6	Z (L. FBSC)				
7,457.5	7,318.8	Z (L4.3: SBSC)				
7,935.4	7,796.2	Z (L4.1: SBSC)				
8,061.2	7,921.9	Z (L4.1: SBSC B Carb)				
8,134.7	7,995.5	Z (SBSC B Target)				
8,264.9	8,123.3	Z (L4.1: SBSC C)				
8,272.8	8,130.8	Z (L3.3: TBSC)				
8,785.8	8,491.7	Z (L3.3.2: Break Sand (T))				

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

Submit Electronically
Via E-permitting

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:** 9/24/2024

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	TBD	N 4-23S-28E	1,034' FSL 1,855' FWL	915	1,200	1,550

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	TBD	12/15/2024	1/30/2024	2/28/2024	3/1/2024	3/1/2024

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: <i>Jacob Wilhelm</i>
Printed Name: Jacob Wilhelm
Title: Operations Engineer
E-mail Address: Jacob.wilhelm@matadorresources.com
Date: 09/24/2024
Phone: (940) 257-7755
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Addendum to Natural Gas Management Plan for Matador's
Jack Sleeper Com 9 & 16-23S-28E

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
Jack Sleeper Com 9 & 16-23S-28E	915	1,200	1,550

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.

VIII. 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