

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 374508

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 30-025-53758
4. Property Code 336421	5. Property Name GAINES BATY STATE COM	6. Well No. 242H

7. Surface Location

UL - Lot N	Section 36	Township 15S	Range 36E	Lot Idn N	Feet From 363	N/S Line S	Feet From 1360	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot C	Section 24	Township 15S	Range 36E	Lot Idn C	Feet From 110	N/S Line N	Feet From 1980	E/W Line W	County Lea
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9. Pool Information

DEAN;PERMO UPPER PENN	16720
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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 3839
16. Multiple N	17. Proposed Depth 26912	18. Formation Permo Upper Penn	19. Contractor	20. Spud Date 11/11/2024
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	20	13.375	54.5	2093	3026	0
Int1	9.875	7.625	29.7	10775	1893	0
Prod	6.75	5.5	23	26912	1676	4000

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:

Printed Name: Electronically filed by Brett A Jennings

Title: Regulatory Analyst

Email Address: brett.jennings@matadorresources.com

Date: 10/7/2024

Phone: 972-629-2160

OIL CONSERVATION DIVISION

Approved By: Paul F Kautz

Title: Geologist

Approved Date: 10/22/2024

Expiration Date: 10/22/2026

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	Pool Code 16720	Pool Name Dean Permo Upper Penn
Property Code	Property Name GAINES BATY STATE COM	Well Number 242H
OGRID No. 228937	Operator Name MATADOR PRODUCTION COMPANY	Ground Level Elevation 3839'
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	36	15-S	36-E	-	363' S	1360' W	N 32.9677393	W 103.2613886	LEA

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
C	24	15-S	36-E	-	110' N	1980' W	N 33.0100223	W 103.2593908	LEA

Dedicated Acres 480	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
N	36	15-S	36-E	-	50' S	1980' W	N 32.9668787	W 103.2593651	LEA

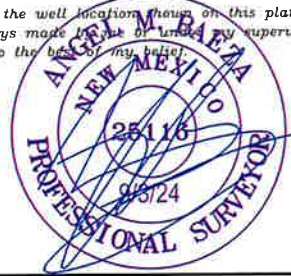
First Take Point (FTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
N	36	15-S	36-E	-	100' S	1980' W	N 32.9670162	W 103.2593655	LEA

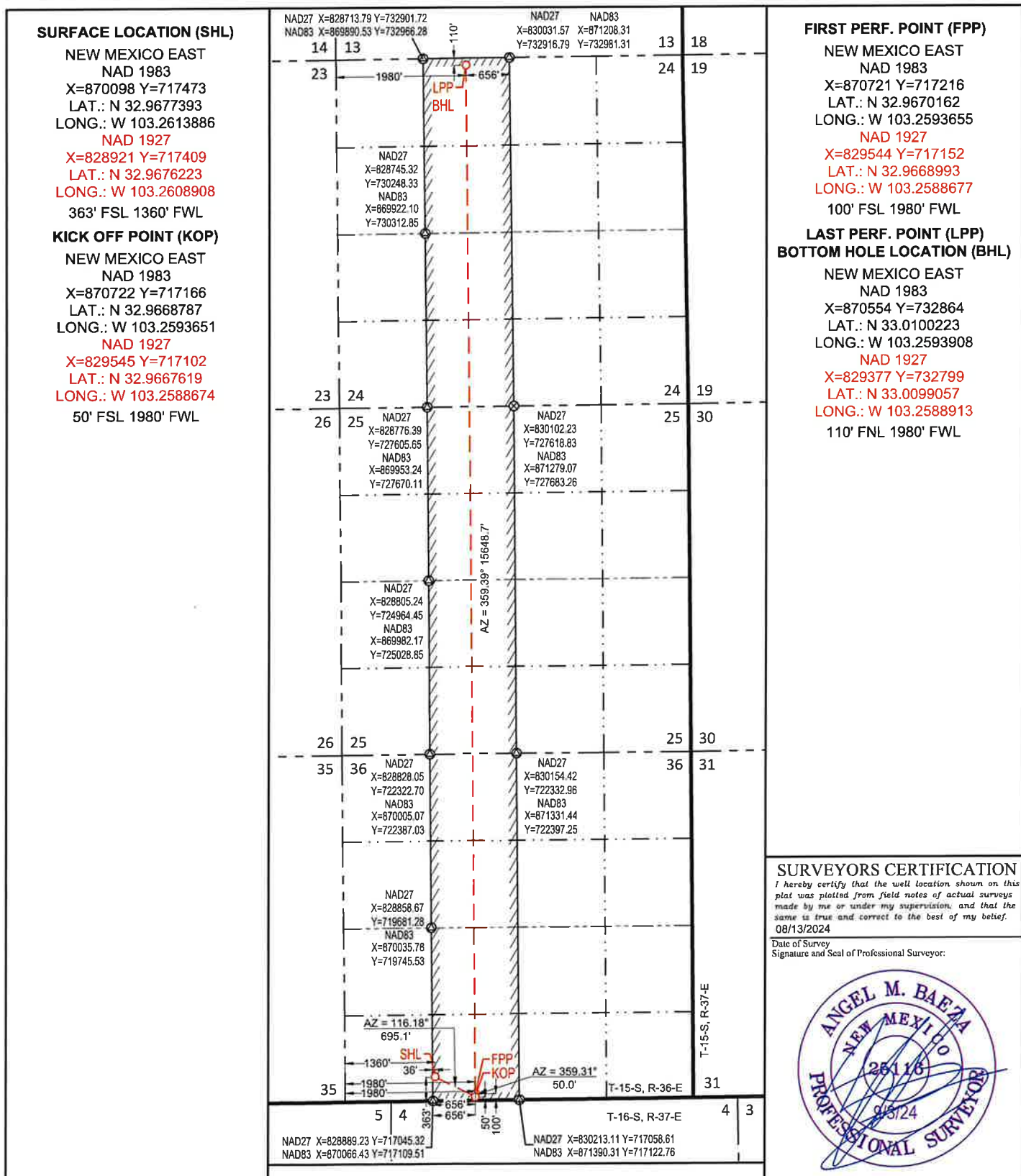
Last Take Point (LTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
C	24	15-S	36-E	-	110' N	1980' W	N 33.0100223	W 103.2593908	LEA

Unitized Area or Area of Uniform Interest	Spacing Unity Type ☐ Horizontal ☐ Vertical	Ground Floor Elevation
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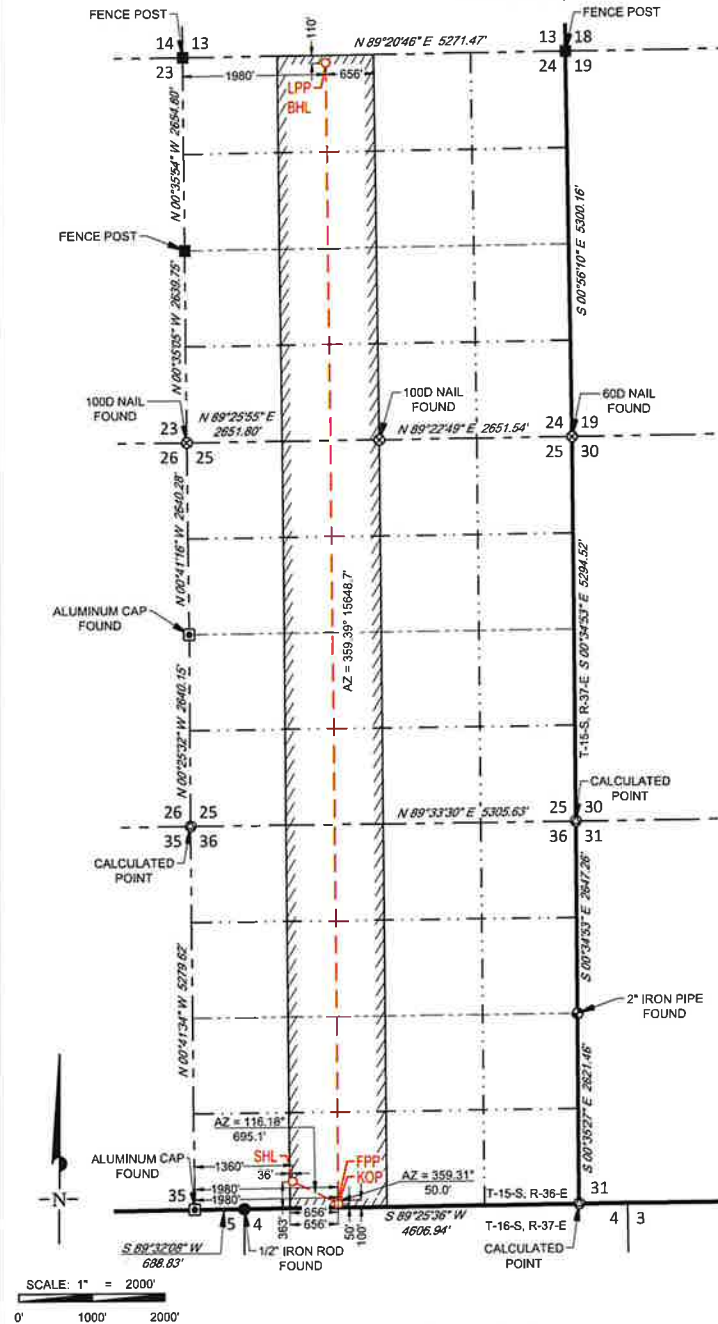
OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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>9/16/2024</u> Print Name: <u>reece.clark@matadorresources.com</u> E-mail Address: <u>reece.clark@matadorresources.com</u>		SURVEYORS CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made to and of under my supervision, and that the same is true and correct to the best of my belief.</i>  Signature and Seal of Professional Surveyor: _____ Date: _____ Certificate Number: _____ Date of Survey: <u>08/13/2024</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 GAINES BATY STATE COM 242H				





SECTION 36, TOWNSHIP 15-S, RANGE 36-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: GAINES BATY STATE COM 242H

SECTION 36 TWP 15-S RGE 36-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 363' FSL & 1360' FWL

DISTANCE & DIRECTION

FROM INT. OF US-82 E & NM-83 W AVE D, GO NORTH ON US-82 ±1.8
MILES, THENCE EAST (RIGHT) ON E GUM AVE ±2.8 MILES, THENCE
CONTINUE STRAIGHT ON A LEASE ROAD ±2.0 MILES, THENCE NORTH
(LEFT) ON A PROPOSED RD. ±300 FEET TO A POINT ±459 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.

SURFACE LOCATION (SHL)

NEW MEXICO EAST
NAD 1983
X=870098 Y=717473
LAT.: N 32.9677393
LONG.: W 103.2613886

363' FSL 1360' FWL

KICK OFF POINT (KOP)

NEW MEXICO EAST
NAD 1983
X=870722 Y=717166
LAT.: N 32.9668787
LONG.: W 103.2593651

50' FSL 1980' FWL

FIRST PERF. POINT (FPP)

NEW MEXICO EAST
NAD 1983
X=870721 Y=717216
LAT.: N 32.9670162
LONG.: W 103.2593655

100' FSL 1980' FWL

LAST PERF. POINT (LPP)

BOTTOM HOLE LOCATION (BHL)

NEW MEXICO EAST
NAD 1983
X=870554 Y=732864
LAT.: N 33.0100223
LONG.: W 103.2593908

110' FNL 1980' FWL



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



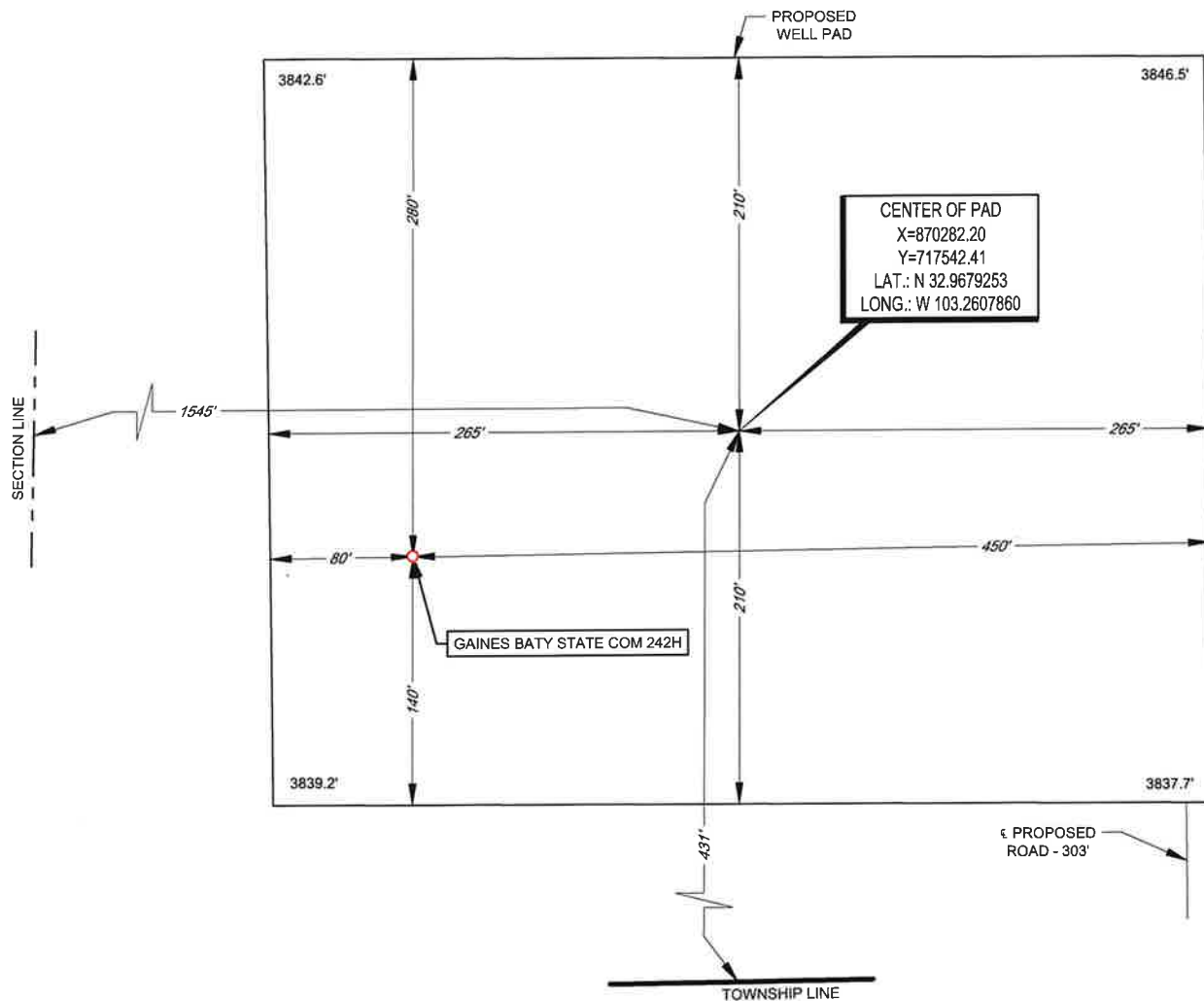
481 WINSOFT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 244-7512 • FAX: (817) 244-7554
2803 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX: (432) 682-1743
WWW.TOPOGRAPHIC.COM



LEGEND

TOWNSHIP LINE
 SECTION LINE
 PROPOSED ROAD

SECTION 36, TOWNSHIP 15-S, RANGE 36-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



Angel M. Baeza, P.S. No. 25116

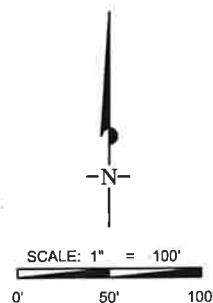
LEASE NAME & WELL NO.: GAINES BATY STATE COM 242H
 242H LATITUDE N 32.9677393 242H LONGITUDE W 103.2613886

CENTER OF PAD IS 431' FSL & 1545' FWL

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. ONLY THE DATA SHOWN ABOVE IS BEING CERTIFIED TO, ALL OTHER INFORMATION WAS INTENTIONALLY OMITTED. THIS PLAT IS ONLY INTENDED TO BE USED FOR A PERMIT AND IS NOT A BOUNDARY SURVEY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"



481 WINSOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
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District IV
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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 374508

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	API Number: 30-025-53758
	Well: GAINES BATY STATE COM #242H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	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
pkautz	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
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
pkautz	Pit construction and closure must satisfy all requirements of your approved plan
pkautz	If using a pit for drilling and completion operations, must have an approved pit from prior to spudding the well

Well Name: Gaines Baty #242H										
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	20	13.375	J-55	54.50	2093	0	3026	0	Option to drill surface hole with surface setting rig
INT 1	Diesel/Brine Emulsion	9.875	7.625	P-110	29.70	10755	0	1893	0	Option to run DV tool and Packer.
PROD	Oil-Based Mud	6.75	5.5	P-110	23.00	26912	0	1676	4000	

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:** 9/17/2024

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
Gaines Baty State Com 242H	TBD	UL-N 36-15S-36E	363' FSL 1360' FWL	800	1500	2000

IV. Central Delivery Point Name: Gaines Baty 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
Gaines Baty State Com 242H	TBD	11/15/2024	12/20/2024	1/20/2025	2/15/2025	2/15/2025

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

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

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

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: Mark Gonzales
Title: Facilities Engineer
E-mail Address: mark.gonzales@matadorresources.com
Date: 9/17/2024
Phone: (915) 240-3468
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
Gaines Baty State Com 242H

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
Gaines Baty State Com 242H	800	1500	2000

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

Matador Production Company

Twin Lakes

Gaines Baty

Gaines Baty State Com #242H

Wellbore #1

Plan: State Plan #1

Standard Planning Report

24 September, 2024

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Gaines Baty State Com #242H
Company:	Matador Production Company	TVD Reference:	KB @ 3867.5usft
Project:	Twin Lakes	MD Reference:	KB @ 3867.5usft
Site:	Gaines Baty	North Reference:	Grid
Well:	Gaines Baty State Com #242H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Project	Twin Lakes		
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	Gaines Baty				
Site Position:		Northing:	717,408.56 usft	Latitude:	32° 58' 3.440 N
From:	Lat/Long	Easting:	828,920.86 usft	Longitude:	103° 15' 39.207 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.58 °

Well	Gaines Baty State Com #242H					
Well Position	+N/-S	0.0 usft	Northing:	717,408.56 usft	Latitude:	32° 58' 3.440 N
	+E/-W	0.0 usft	Easting:	828,920.86 usft	Longitude:	103° 15' 39.207 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,839.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/21/2024	6.06	60.68	47,650.62481053

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	359.39

Plan Survey Tool Program		Date	9/24/2024		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	26,912.8	State Plan #1 (Wellbore #1)	MWD	
			OWSG MWD - Standard		

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Gaines Baty State Com #242H
Company:	Matador Production Company	TVD Reference:	KB @ 3867.5usft
Project:	Twin Lakes	MD Reference:	KB @ 3867.5usft
Site:	Gaines Baty	North Reference:	Grid
Well:	Gaines Baty State Com #242H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

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	
2,210.0	0.00	0.00	2,210.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,710.0	5.00	116.16	2,709.4	-9.6	19.6	1.00	1.00	0.00	116.16	
10,272.5	5.00	116.16	10,243.1	-300.2	611.2	0.00	0.00	0.00	0.00	
10,605.8	0.00	0.00	10,576.0	-306.6	624.2	1.50	-1.50	0.00	180.00	
10,855.8	0.00	0.00	10,826.0	-306.6	624.2	0.00	0.00	0.00	0.00	KOP - Gaines Baty St
11,745.8	89.00	359.39	11,398.9	256.3	618.2	10.00	10.00	0.00	359.39	
13,076.3	89.00	359.39	11,422.1	1,586.5	604.1	0.00	0.00	0.00	0.00	
13,795.8	89.00	345.00	11,434.7	2,297.4	506.6	2.00	0.00	-2.00	-90.13	
15,234.8	89.00	13.76	11,460.4	3,721.0	491.2	2.00	0.00	2.00	90.26	
15,953.3	89.00	359.39	11,473.0	4,432.8	573.2	2.00	0.00	-2.00	-90.12	
26,912.8	89.00	359.39	11,664.0	15,390.0	456.1	0.00	0.00	0.00	0.00	BHL - Gaines Baty St

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Company:	Matador Production Company	TVD Reference:	KB @ 3867.5usft
Project:	Twin Lakes	MD Reference:	KB @ 3867.5usft
Site:	Gaines Baty	North Reference:	Grid
Well:	Gaines Baty State Com #242H	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
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
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,068.0	0.00	0.00	2,068.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler Anhydrite									
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,188.0	0.00	0.00	2,188.0	0.0	0.0	0.0	0.00	0.00	0.00
Top Salt									
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,210.0	0.00	0.00	2,210.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 1.00									
2,300.0	0.90	116.16	2,300.0	-0.3	0.6	-0.3	1.00	1.00	0.00
2,400.0	1.90	116.16	2,400.0	-1.4	2.8	-1.4	1.00	1.00	0.00
2,500.0	2.90	116.16	2,499.9	-3.2	6.6	-3.3	1.00	1.00	0.00
2,600.0	3.90	116.16	2,599.7	-5.8	11.9	-6.0	1.00	1.00	0.00
2,700.0	4.90	116.16	2,699.4	-9.2	18.8	-9.4	1.00	1.00	0.00
2,710.0	5.00	116.16	2,709.4	-9.6	19.6	-9.8	1.00	1.00	0.00
Start 7562.5 hold at 2710.0 MD									
2,800.0	5.00	116.16	2,799.0	-13.1	26.6	-13.4	0.00	0.00	0.00
2,900.0	5.00	116.16	2,898.6	-16.9	34.4	-17.3	0.00	0.00	0.00
3,000.0	5.00	116.16	2,998.3	-20.8	42.3	-21.2	0.00	0.00	0.00
3,001.4	5.00	116.16	2,999.6	-20.8	42.4	-21.3	0.00	0.00	0.00
Base Salt									
3,100.0	5.00	116.16	3,097.9	-24.6	50.1	-25.1	0.00	0.00	0.00
3,200.0	5.00	116.16	3,197.5	-28.4	57.9	-29.1	0.00	0.00	0.00
3,208.0	5.00	116.16	3,205.5	-28.7	58.5	-29.4	0.00	0.00	0.00
Yates									
3,300.0	5.00	116.16	3,297.1	-32.3	65.7	-33.0	0.00	0.00	0.00
3,400.0	5.00	116.16	3,396.7	-36.1	73.5	-36.9	0.00	0.00	0.00
3,474.8	5.00	116.16	3,471.3	-39.0	79.4	-39.8	0.00	0.00	0.00
Seven Rivers									
3,500.0	5.00	116.16	3,496.4	-40.0	81.4	-40.8	0.00	0.00	0.00
3,600.0	5.00	116.16	3,596.0	-43.8	89.2	-44.8	0.00	0.00	0.00
3,700.0	5.00	116.16	3,695.6	-47.7	97.0	-48.7	0.00	0.00	0.00
3,800.0	5.00	116.16	3,795.2	-51.5	104.8	-52.6	0.00	0.00	0.00

Planning Report

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Company:	Matador Production Company	TVD Reference:	KB @ 3867.5usft
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Site:	Gaines Baty	North Reference:	Grid
Well:	Gaines Baty State Com #242H	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)
3,900.0	5.00	116.16	3,894.8	-55.3	112.7	-56.5	0.00	0.00	0.00
4,000.0	5.00	116.16	3,994.5	-59.2	120.5	-60.5	0.00	0.00	0.00
4,082.7	5.00	116.16	4,076.9	-62.4	127.0	-63.7	0.00	0.00	0.00
Queen									
4,100.0	5.00	116.16	4,094.1	-63.0	128.3	-64.4	0.00	0.00	0.00
4,200.0	5.00	116.16	4,193.7	-66.9	136.1	-68.3	0.00	0.00	0.00
4,300.0	5.00	116.16	4,293.3	-70.7	144.0	-72.2	0.00	0.00	0.00
4,400.0	5.00	116.16	4,392.9	-74.5	151.8	-76.2	0.00	0.00	0.00
4,500.0	5.00	116.16	4,492.6	-78.4	159.6	-80.1	0.00	0.00	0.00
4,600.0	5.00	116.16	4,592.2	-82.2	167.4	-84.0	0.00	0.00	0.00
4,700.0	5.00	116.16	4,691.8	-86.1	175.2	-87.9	0.00	0.00	0.00
4,800.0	5.00	116.16	4,791.4	-89.9	183.1	-91.9	0.00	0.00	0.00
4,900.0	5.00	116.16	4,891.0	-93.8	190.9	-95.8	0.00	0.00	0.00
4,907.3	5.00	116.16	4,898.3	-94.0	191.5	-96.1	0.00	0.00	0.00
San Andres									
5,000.0	5.00	116.16	4,990.7	-97.6	198.7	-99.7	0.00	0.00	0.00
5,100.0	5.00	116.16	5,090.3	-101.4	206.5	-103.6	0.00	0.00	0.00
5,200.0	5.00	116.16	5,189.9	-105.3	214.4	-107.6	0.00	0.00	0.00
5,300.0	5.00	116.16	5,289.5	-109.1	222.2	-111.5	0.00	0.00	0.00
5,400.0	5.00	116.16	5,389.1	-113.0	230.0	-115.4	0.00	0.00	0.00
5,500.0	5.00	116.16	5,488.7	-116.8	237.8	-119.3	0.00	0.00	0.00
5,600.0	5.00	116.16	5,588.4	-120.7	245.7	-123.3	0.00	0.00	0.00
5,700.0	5.00	116.16	5,688.0	-124.5	253.5	-127.2	0.00	0.00	0.00
5,800.0	5.00	116.16	5,787.6	-128.3	261.3	-131.1	0.00	0.00	0.00
5,900.0	5.00	116.16	5,887.2	-132.2	269.1	-135.0	0.00	0.00	0.00
6,000.0	5.00	116.16	5,986.8	-136.0	276.9	-139.0	0.00	0.00	0.00
6,100.0	5.00	116.16	6,086.5	-139.9	284.8	-142.9	0.00	0.00	0.00
6,200.0	5.00	116.16	6,186.1	-143.7	292.6	-146.8	0.00	0.00	0.00
6,300.0	5.00	116.16	6,285.7	-147.6	300.4	-150.7	0.00	0.00	0.00
6,400.0	5.00	116.16	6,385.3	-151.4	308.2	-154.7	0.00	0.00	0.00
6,500.0	5.00	116.16	6,484.9	-155.2	316.1	-158.6	0.00	0.00	0.00
6,537.4	5.00	116.16	6,522.2	-156.7	319.0	-160.1	0.00	0.00	0.00
Gloriata Sand									
6,600.0	5.00	116.16	6,584.6	-159.1	323.9	-162.5	0.00	0.00	0.00
6,700.0	5.00	116.16	6,684.2	-162.9	331.7	-166.4	0.00	0.00	0.00
6,800.0	5.00	116.16	6,783.8	-166.8	339.5	-170.4	0.00	0.00	0.00
6,900.0	5.00	116.16	6,883.4	-170.6	347.3	-174.3	0.00	0.00	0.00
7,000.0	5.00	116.16	6,983.0	-174.5	355.2	-178.2	0.00	0.00	0.00
7,100.0	5.00	116.16	7,082.7	-178.3	363.0	-182.1	0.00	0.00	0.00
7,200.0	5.00	116.16	7,182.3	-182.1	370.8	-186.1	0.00	0.00	0.00
7,300.0	5.00	116.16	7,281.9	-186.0	378.6	-190.0	0.00	0.00	0.00
7,400.0	5.00	116.16	7,381.5	-189.8	386.5	-193.9	0.00	0.00	0.00
7,500.0	5.00	116.16	7,481.1	-193.7	394.3	-197.9	0.00	0.00	0.00
7,600.0	5.00	116.16	7,580.8	-197.5	402.1	-201.8	0.00	0.00	0.00
7,665.9	5.00	116.16	7,646.4	-200.0	407.3	-204.4	0.00	0.00	0.00
Tubb									
7,700.0	5.00	116.16	7,680.4	-201.3	409.9	-205.7	0.00	0.00	0.00
7,800.0	5.00	116.16	7,780.0	-205.2	417.8	-209.6	0.00	0.00	0.00
7,900.0	5.00	116.16	7,879.6	-209.0	425.6	-213.6	0.00	0.00	0.00
8,000.0	5.00	116.16	7,979.2	-212.9	433.4	-217.5	0.00	0.00	0.00
8,100.0	5.00	116.16	8,078.9	-216.7	441.2	-221.4	0.00	0.00	0.00
8,200.0	5.00	116.16	8,178.5	-220.6	449.0	-225.3	0.00	0.00	0.00
8,300.0	5.00	116.16	8,278.1	-224.4	456.9	-229.3	0.00	0.00	0.00

Planning Report

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Company:	Matador Production Company	TVD Reference:	KB @ 3867.5usft
Project:	Twin Lakes	MD Reference:	KB @ 3867.5usft
Site:	Gaines Baty	North Reference:	Grid
Well:	Gaines Baty State Com #242H	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)
8,400.0	5.00	116.16	8,377.7	-228.2	464.7	-233.2	0.00	0.00	0.00
8,410.2	5.00	116.16	8,387.9	-228.6	465.5	-233.6	0.00	0.00	0.00
Abo									
8,500.0	5.00	116.16	8,477.3	-232.1	472.5	-237.1	0.00	0.00	0.00
8,600.0	5.00	116.16	8,577.0	-235.9	480.3	-241.0	0.00	0.00	0.00
8,700.0	5.00	116.16	8,676.6	-239.8	488.2	-245.0	0.00	0.00	0.00
8,800.0	5.00	116.16	8,776.2	-243.6	496.0	-248.9	0.00	0.00	0.00
8,900.0	5.00	116.16	8,875.8	-247.5	503.8	-252.8	0.00	0.00	0.00
9,000.0	5.00	116.16	8,975.4	-251.3	511.6	-256.7	0.00	0.00	0.00
9,100.0	5.00	116.16	9,075.0	-255.1	519.5	-260.7	0.00	0.00	0.00
9,200.0	5.00	116.16	9,174.7	-259.0	527.3	-264.6	0.00	0.00	0.00
9,300.0	5.00	116.16	9,274.3	-262.8	535.1	-268.5	0.00	0.00	0.00
9,400.0	5.00	116.16	9,373.9	-266.7	542.9	-272.4	0.00	0.00	0.00
9,500.0	5.00	116.16	9,473.5	-270.5	550.7	-276.4	0.00	0.00	0.00
9,600.0	5.00	116.16	9,573.1	-274.4	558.6	-280.3	0.00	0.00	0.00
9,700.0	5.00	116.16	9,672.8	-278.2	566.4	-284.2	0.00	0.00	0.00
9,800.0	5.00	116.16	9,772.4	-282.0	574.2	-288.1	0.00	0.00	0.00
9,900.0	5.00	116.16	9,872.0	-285.9	582.0	-292.1	0.00	0.00	0.00
9,983.2	5.00	116.16	9,954.8	-289.1	588.5	-295.3	0.00	0.00	0.00
Wolfcamp									
10,000.0	5.00	116.16	9,971.6	-289.7	589.9	-296.0	0.00	0.00	0.00
10,100.0	5.00	116.16	10,071.2	-293.6	597.7	-299.9	0.00	0.00	0.00
10,171.7	5.00	116.16	10,142.7	-296.3	603.3	-302.7	0.00	0.00	0.00
XX Marker									
10,200.0	5.00	116.16	10,170.9	-297.4	605.5	-303.8	0.00	0.00	0.00
10,272.5	5.00	116.16	10,243.1	-300.2	611.2	-306.7	0.00	0.00	0.00
Start Drop -1.50									
10,300.0	4.59	116.16	10,270.5	-301.2	613.2	-307.7	1.50	-1.50	0.00
10,400.0	3.09	116.16	10,370.3	-304.2	619.2	-310.7	1.50	-1.50	0.00
10,500.0	1.59	116.16	10,470.2	-306.0	622.9	-312.6	1.50	-1.50	0.00
10,600.0	0.09	116.16	10,570.2	-306.6	624.2	-313.2	1.50	-1.50	0.00
10,604.4	0.02	116.16	10,574.5	-306.6	624.2	-313.2	1.50	-1.50	0.00
Base of Three Brothers (BTBR Marker)									
10,605.8	0.00	0.00	10,576.0	-306.6	624.2	-313.2	1.50	-1.50	0.00
Start 250.0 hold at 10605.8 MD									
10,700.0	0.00	0.00	10,670.2	-306.6	624.2	-313.2	0.00	0.00	0.00
10,773.4	0.00	0.00	10,743.5	-306.6	624.2	-313.2	0.00	0.00	0.00
Cisco Carbonate									
10,800.0	0.00	0.00	10,770.2	-306.6	624.2	-313.2	0.00	0.00	0.00
10,855.8	0.00	0.00	10,826.0	-306.6	624.2	-313.2	0.00	0.00	0.00
Start Build 10.00 - KOP - Gaines Baty State Com #242H									
10,900.0	4.42	359.39	10,870.1	-304.9	624.2	-311.5	10.00	10.00	0.00
11,000.0	14.42	359.39	10,968.6	-288.6	624.0	-295.2	10.00	10.00	0.00
11,096.2	24.04	359.39	11,059.4	-256.9	623.7	-263.5	10.00	10.00	0.00
Wolfcamp D / Penn Sh.									
11,100.0	24.42	359.39	11,062.8	-255.4	623.7	-262.0	10.00	10.00	0.00
11,200.0	34.42	359.39	11,149.8	-206.3	623.2	-212.9	10.00	10.00	0.00
11,300.0	44.42	359.39	11,227.0	-142.9	622.5	-149.5	10.00	10.00	0.00
11,326.2	47.04	359.39	11,245.3	-124.1	622.3	-130.7	10.00	10.00	0.00
FTP - Gaines Baty State Com #242H									
11,400.0	54.42	359.39	11,292.0	-67.1	621.7	-73.7	10.00	10.00	0.00
11,500.0	64.42	359.39	11,342.8	18.9	620.8	12.3	10.00	10.00	0.00
11,600.0	74.42	359.39	11,377.9	112.4	619.8	105.8	10.00	10.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Gaines Baty State Com #242H
Company:	Matador Production Company	TVD Reference:	KB @ 3867.5usft
Project:	Twin Lakes	MD Reference:	KB @ 3867.5usft
Site:	Gaines Baty	North Reference:	Grid
Well:	Gaines Baty State Com #242H	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)
11,700.0	84.42	359.39	11,396.2	210.6	618.7	204.0	10.00	10.00	0.00
11,745.8	89.00	359.39	11,398.9	256.3	618.2	249.7	10.00	10.00	0.00
Start 1330.5 hold at 11745.8 MD									
11,800.0	89.00	359.39	11,399.8	310.5	617.7	303.9	0.00	0.00	0.00
11,900.0	89.00	359.39	11,401.6	410.5	616.6	403.9	0.00	0.00	0.00
12,000.0	89.00	359.39	11,403.3	510.4	615.5	503.9	0.00	0.00	0.00
12,100.0	89.00	359.39	11,405.1	610.4	614.5	603.8	0.00	0.00	0.00
12,200.0	89.00	359.39	11,406.8	710.4	613.4	703.8	0.00	0.00	0.00
12,300.0	89.00	359.39	11,408.5	810.4	612.3	803.8	0.00	0.00	0.00
12,400.0	89.00	359.39	11,410.3	910.4	611.3	903.8	0.00	0.00	0.00
12,500.0	89.00	359.39	11,412.0	1,010.3	610.2	1,003.8	0.00	0.00	0.00
12,600.0	89.00	359.39	11,413.8	1,110.3	609.1	1,103.8	0.00	0.00	0.00
12,700.0	89.00	359.39	11,415.5	1,210.3	608.1	1,203.7	0.00	0.00	0.00
12,800.0	89.00	359.39	11,417.3	1,310.3	607.0	1,303.7	0.00	0.00	0.00
12,900.0	89.00	359.39	11,419.0	1,410.2	605.9	1,403.7	0.00	0.00	0.00
13,000.0	89.00	359.39	11,420.8	1,510.2	604.9	1,503.7	0.00	0.00	0.00
13,076.3	89.00	359.39	11,422.1	1,586.5	604.1	1,580.0	0.00	0.00	0.00
Start DLS 2.00 TFO -90.13									
13,100.0	89.00	358.92	11,422.5	1,610.2	603.7	1,603.7	2.00	0.00	-2.00
13,200.0	89.00	356.92	11,424.3	1,710.1	600.1	1,703.6	2.00	0.00	-2.00
13,300.0	88.99	354.92	11,426.0	1,809.8	593.0	1,803.4	2.00	0.00	-2.00
13,400.0	88.99	352.92	11,427.8	1,909.3	582.4	1,903.0	2.00	0.00	-2.00
13,500.0	88.99	350.92	11,429.5	2,008.2	568.3	2,002.1	2.00	0.00	-2.00
13,600.0	88.99	348.92	11,431.3	2,106.7	550.8	2,100.7	2.00	0.00	-2.00
13,700.0	89.00	346.92	11,433.0	2,204.4	529.9	2,198.7	2.00	0.00	-2.00
13,795.8	89.00	345.00	11,434.7	2,297.4	506.6	2,291.9	2.00	0.00	-2.00
Start Turn 2.00									
13,800.0	89.00	345.08	11,434.8	2,301.4	505.5	2,295.9	2.00	-0.01	2.00
13,900.0	88.99	347.08	11,436.5	2,398.5	481.5	2,393.2	2.00	-0.01	2.00
14,000.0	88.98	349.08	11,438.3	2,496.3	460.9	2,491.2	2.00	-0.01	2.00
14,100.0	88.98	351.08	11,440.1	2,594.8	443.6	2,589.9	2.00	-0.01	2.00
14,200.0	88.97	353.08	11,441.9	2,693.8	429.8	2,689.1	2.00	0.00	2.00
14,300.0	88.97	355.08	11,443.7	2,793.2	419.5	2,788.6	2.00	0.00	2.00
14,400.0	88.97	357.08	11,445.5	2,893.0	412.7	2,888.4	2.00	0.00	2.00
14,500.0	88.97	359.07	11,447.3	2,992.9	409.3	2,988.4	2.00	0.00	2.00
14,600.0	88.97	1.07	11,449.1	3,092.9	409.5	3,088.4	2.00	0.00	2.00
14,700.0	88.97	3.07	11,450.9	3,192.8	413.1	3,188.2	2.00	0.00	2.00
14,800.0	88.97	5.07	11,452.7	3,292.5	420.2	3,287.9	2.00	0.00	2.00
14,900.0	88.98	7.07	11,454.5	3,391.9	430.7	3,387.2	2.00	0.00	2.00
15,000.0	88.98	9.07	11,456.2	3,490.9	444.8	3,486.0	2.00	0.01	2.00
15,100.0	88.99	11.07	11,458.0	3,589.4	462.2	3,584.3	2.00	0.01	2.00
15,200.0	89.00	13.06	11,459.8	3,687.1	483.1	3,681.8	2.00	0.01	2.00
15,234.8	89.00	13.76	11,460.4	3,721.0	491.2	3,715.6	2.00	0.01	2.00
Start DLS 2.00 TFO -90.12									
15,300.0	89.00	12.46	11,461.5	3,784.5	506.0	3,778.9	2.00	0.00	-2.00
15,400.0	88.99	10.46	11,463.3	3,882.5	525.9	3,876.7	2.00	0.00	-2.00
15,500.0	88.99	8.46	11,465.0	3,981.1	542.3	3,975.1	2.00	0.00	-2.00
15,600.0	88.99	6.46	11,466.8	4,080.2	555.3	4,074.1	2.00	0.00	-2.00
15,700.0	88.99	4.45	11,468.5	4,179.8	564.8	4,173.5	2.00	0.00	-2.00
15,800.0	89.00	2.45	11,470.3	4,279.6	570.8	4,273.2	2.00	0.00	-2.00
15,900.0	89.00	0.45	11,472.0	4,379.5	573.3	4,373.1	2.00	0.00	-2.00
15,953.3	89.00	359.39	11,473.0	4,432.8	573.2	4,426.5	2.00	0.00	-2.00
Start 10959.5 hold at 15953.3 MD									

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Gaines Baty State Com #242H
Company:	Matador Production Company	TVD Reference:	KB @ 3867.5usft
Project:	Twin Lakes	MD Reference:	KB @ 3867.5usft
Site:	Gaines Baty	North Reference:	Grid
Well:	Gaines Baty State Com #242H	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)	
16,000.0	89.00	359.39	11,473.8	4,479.5	572.8	4,473.1	0.00	0.00	0.00	
16,100.0	89.00	359.39	11,475.5	4,579.5	571.7	4,573.1	0.00	0.00	0.00	
16,200.0	89.00	359.39	11,477.3	4,679.4	570.6	4,673.1	0.00	0.00	0.00	
16,300.0	89.00	359.39	11,479.0	4,779.4	569.5	4,773.1	0.00	0.00	0.00	
16,400.0	89.00	359.39	11,480.8	4,879.4	568.5	4,873.1	0.00	0.00	0.00	
16,500.0	89.00	359.39	11,482.5	4,979.4	567.4	4,973.1	0.00	0.00	0.00	
16,600.0	89.00	359.39	11,484.2	5,079.4	566.3	5,073.0	0.00	0.00	0.00	
16,700.0	89.00	359.39	11,486.0	5,179.3	565.3	5,173.0	0.00	0.00	0.00	
16,800.0	89.00	359.39	11,487.7	5,279.3	564.2	5,273.0	0.00	0.00	0.00	
16,900.0	89.00	359.39	11,489.5	5,379.3	563.1	5,373.0	0.00	0.00	0.00	
17,000.0	89.00	359.39	11,491.2	5,479.3	562.1	5,473.0	0.00	0.00	0.00	
17,100.0	89.00	359.39	11,493.0	5,579.3	561.0	5,573.0	0.00	0.00	0.00	
17,200.0	89.00	359.39	11,494.7	5,679.2	559.9	5,672.9	0.00	0.00	0.00	
17,300.0	89.00	359.39	11,496.4	5,779.2	558.9	5,772.9	0.00	0.00	0.00	
17,400.0	89.00	359.39	11,498.2	5,879.2	557.8	5,872.9	0.00	0.00	0.00	
17,500.0	89.00	359.39	11,499.9	5,979.2	556.7	5,972.9	0.00	0.00	0.00	
17,600.0	89.00	359.39	11,501.7	6,079.1	555.7	6,072.9	0.00	0.00	0.00	
17,700.0	89.00	359.39	11,503.4	6,179.1	554.6	6,172.9	0.00	0.00	0.00	
17,800.0	89.00	359.39	11,505.2	6,279.1	553.5	6,272.9	0.00	0.00	0.00	
17,900.0	89.00	359.39	11,506.9	6,379.1	552.4	6,372.8	0.00	0.00	0.00	
18,000.0	89.00	359.39	11,508.6	6,479.1	551.4	6,472.8	0.00	0.00	0.00	
18,100.0	89.00	359.39	11,510.4	6,579.0	550.3	6,572.8	0.00	0.00	0.00	
18,200.0	89.00	359.39	11,512.1	6,679.0	549.2	6,672.8	0.00	0.00	0.00	
18,300.0	89.00	359.39	11,513.9	6,779.0	548.2	6,772.8	0.00	0.00	0.00	
18,400.0	89.00	359.39	11,515.6	6,879.0	547.1	6,872.8	0.00	0.00	0.00	
18,500.0	89.00	359.39	11,517.4	6,979.0	546.0	6,972.7	0.00	0.00	0.00	
18,600.0	89.00	359.39	11,519.1	7,078.9	545.0	7,072.7	0.00	0.00	0.00	
18,700.0	89.00	359.39	11,520.8	7,178.9	543.9	7,172.7	0.00	0.00	0.00	
18,800.0	89.00	359.39	11,522.6	7,278.9	542.8	7,272.7	0.00	0.00	0.00	
18,900.0	89.00	359.39	11,524.3	7,378.9	541.8	7,372.7	0.00	0.00	0.00	
19,000.0	89.00	359.39	11,526.1	7,478.9	540.7	7,472.7	0.00	0.00	0.00	
19,100.0	89.00	359.39	11,527.8	7,578.8	539.6	7,572.7	0.00	0.00	0.00	
19,200.0	89.00	359.39	11,529.6	7,678.8	538.6	7,672.6	0.00	0.00	0.00	
19,300.0	89.00	359.39	11,531.3	7,778.8	537.5	7,772.6	0.00	0.00	0.00	
19,400.0	89.00	359.39	11,533.0	7,878.8	536.4	7,872.6	0.00	0.00	0.00	
19,500.0	89.00	359.39	11,534.8	7,978.7	535.3	7,972.6	0.00	0.00	0.00	
19,600.0	89.00	359.39	11,536.5	8,078.7	534.3	8,072.6	0.00	0.00	0.00	
19,700.0	89.00	359.39	11,538.3	8,178.7	533.2	8,172.6	0.00	0.00	0.00	
19,800.0	89.00	359.39	11,540.0	8,278.7	532.1	8,272.6	0.00	0.00	0.00	
19,900.0	89.00	359.39	11,541.8	8,378.7	531.1	8,372.5	0.00	0.00	0.00	
20,000.0	89.00	359.39	11,543.5	8,478.6	530.0	8,472.5	0.00	0.00	0.00	
20,100.0	89.00	359.39	11,545.2	8,578.6	528.9	8,572.5	0.00	0.00	0.00	
20,200.0	89.00	359.39	11,547.0	8,678.6	527.9	8,672.5	0.00	0.00	0.00	
20,300.0	89.00	359.39	11,548.7	8,778.6	526.8	8,772.5	0.00	0.00	0.00	
20,400.0	89.00	359.39	11,550.5	8,878.6	525.7	8,872.5	0.00	0.00	0.00	
20,500.0	89.00	359.39	11,552.2	8,978.5	524.7	8,972.4	0.00	0.00	0.00	
20,600.0	89.00	359.39	11,554.0	9,078.5	523.6	9,072.4	0.00	0.00	0.00	
20,700.0	89.00	359.39	11,555.7	9,178.5	522.5	9,172.4	0.00	0.00	0.00	
20,800.0	89.00	359.39	11,557.4	9,278.5	521.5	9,272.4	0.00	0.00	0.00	
20,900.0	89.00	359.39	11,559.2	9,378.5	520.4	9,372.4	0.00	0.00	0.00	
21,000.0	89.00	359.39	11,560.9	9,478.4	519.3	9,472.4	0.00	0.00	0.00	
21,100.0	89.00	359.39	11,562.7	9,578.4	518.2	9,572.4	0.00	0.00	0.00	
21,200.0	89.00	359.39	11,564.4	9,678.4	517.2	9,672.3	0.00	0.00	0.00	
21,300.0	89.00	359.39	11,566.2	9,778.4	516.1	9,772.3	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Gaines Baty State Com #242H
Company:	Matador Production Company	TVD Reference:	KB @ 3867.5usft
Project:	Twin Lakes	MD Reference:	KB @ 3867.5usft
Site:	Gaines Baty	North Reference:	Grid
Well:	Gaines Baty State Com #242H	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)
21,400.0	89.00	359.39	11,567.9	9,878.4	515.0	9,872.3	0.00	0.00	0.00
21,500.0	89.00	359.39	11,569.6	9,978.3	514.0	9,972.3	0.00	0.00	0.00
21,600.0	89.00	359.39	11,571.4	10,078.3	512.9	10,072.3	0.00	0.00	0.00
21,700.0	89.00	359.39	11,573.1	10,178.3	511.8	10,172.3	0.00	0.00	0.00
21,800.0	89.00	359.39	11,574.9	10,278.3	510.8	10,272.2	0.00	0.00	0.00
21,900.0	89.00	359.39	11,576.6	10,378.2	509.7	10,372.2	0.00	0.00	0.00
22,000.0	89.00	359.39	11,578.4	10,478.2	508.6	10,472.2	0.00	0.00	0.00
22,100.0	89.00	359.39	11,580.1	10,578.2	507.6	10,572.2	0.00	0.00	0.00
22,200.0	89.00	359.39	11,581.9	10,678.2	506.5	10,672.2	0.00	0.00	0.00
22,300.0	89.00	359.39	11,583.6	10,778.2	505.4	10,772.2	0.00	0.00	0.00
22,400.0	89.00	359.39	11,585.3	10,878.1	504.4	10,872.2	0.00	0.00	0.00
22,500.0	89.00	359.39	11,587.1	10,978.1	503.3	10,972.1	0.00	0.00	0.00
22,600.0	89.00	359.39	11,588.8	11,078.1	502.2	11,072.1	0.00	0.00	0.00
22,700.0	89.00	359.39	11,590.6	11,178.1	501.1	11,172.1	0.00	0.00	0.00
22,800.0	89.00	359.39	11,592.3	11,278.1	500.1	11,272.1	0.00	0.00	0.00
22,900.0	89.00	359.39	11,594.1	11,378.0	499.0	11,372.1	0.00	0.00	0.00
23,000.0	89.00	359.39	11,595.8	11,478.0	497.9	11,472.1	0.00	0.00	0.00
23,100.0	89.00	359.39	11,597.5	11,578.0	496.9	11,572.1	0.00	0.00	0.00
23,200.0	89.00	359.39	11,599.3	11,678.0	495.8	11,672.0	0.00	0.00	0.00
23,300.0	89.00	359.39	11,601.0	11,778.0	494.7	11,772.0	0.00	0.00	0.00
23,400.0	89.00	359.39	11,602.8	11,877.9	493.7	11,872.0	0.00	0.00	0.00
23,500.0	89.00	359.39	11,604.5	11,977.9	492.6	11,972.0	0.00	0.00	0.00
23,600.0	89.00	359.39	11,606.3	12,077.9	491.5	12,072.0	0.00	0.00	0.00
23,700.0	89.00	359.39	11,608.0	12,177.9	490.5	12,172.0	0.00	0.00	0.00
23,800.0	89.00	359.39	11,609.7	12,277.8	489.4	12,271.9	0.00	0.00	0.00
23,900.0	89.00	359.39	11,611.5	12,377.8	488.3	12,371.9	0.00	0.00	0.00
24,000.0	89.00	359.39	11,613.2	12,477.8	487.3	12,471.9	0.00	0.00	0.00
24,100.0	89.00	359.39	11,615.0	12,577.8	486.2	12,571.9	0.00	0.00	0.00
24,200.0	89.00	359.39	11,616.7	12,677.8	485.1	12,671.9	0.00	0.00	0.00
24,300.0	89.00	359.39	11,618.5	12,777.7	484.0	12,771.9	0.00	0.00	0.00
24,400.0	89.00	359.39	11,620.2	12,877.7	483.0	12,871.9	0.00	0.00	0.00
24,500.0	89.00	359.39	11,621.9	12,977.7	481.9	12,971.8	0.00	0.00	0.00
24,600.0	89.00	359.39	11,623.7	13,077.7	480.8	13,071.8	0.00	0.00	0.00
24,700.0	89.00	359.39	11,625.4	13,177.7	479.8	13,171.8	0.00	0.00	0.00
24,800.0	89.00	359.39	11,627.2	13,277.6	478.7	13,271.8	0.00	0.00	0.00
24,900.0	89.00	359.39	11,628.9	13,377.6	477.6	13,371.8	0.00	0.00	0.00
25,000.0	89.00	359.39	11,630.7	13,477.6	476.6	13,471.8	0.00	0.00	0.00
25,100.0	89.00	359.39	11,632.4	13,577.6	475.5	13,571.7	0.00	0.00	0.00
25,200.0	89.00	359.39	11,634.1	13,677.6	474.4	13,671.7	0.00	0.00	0.00
25,300.0	89.00	359.39	11,635.9	13,777.5	473.4	13,771.7	0.00	0.00	0.00
25,400.0	89.00	359.39	11,637.6	13,877.5	472.3	13,871.7	0.00	0.00	0.00
25,500.0	89.00	359.39	11,639.4	13,977.5	471.2	13,971.7	0.00	0.00	0.00
25,600.0	89.00	359.39	11,641.1	14,077.5	470.2	14,071.7	0.00	0.00	0.00
25,700.0	89.00	359.39	11,642.9	14,177.5	469.1	14,171.7	0.00	0.00	0.00
25,800.0	89.00	359.39	11,644.6	14,277.4	468.0	14,271.6	0.00	0.00	0.00
25,900.0	89.00	359.39	11,646.3	14,377.4	466.9	14,371.6	0.00	0.00	0.00
26,000.0	89.00	359.39	11,648.1	14,477.4	465.9	14,471.6	0.00	0.00	0.00
26,100.0	89.00	359.39	11,649.8	14,577.4	464.8	14,571.6	0.00	0.00	0.00
26,200.0	89.00	359.39	11,651.6	14,677.3	463.7	14,671.6	0.00	0.00	0.00
26,300.0	89.00	359.39	11,653.3	14,777.3	462.7	14,771.6	0.00	0.00	0.00
26,400.0	89.00	359.39	11,655.1	14,877.3	461.6	14,871.5	0.00	0.00	0.00
26,500.0	89.00	359.39	11,656.8	14,977.3	460.5	14,971.5	0.00	0.00	0.00
26,600.0	89.00	359.39	11,658.5	15,077.3	459.5	15,071.5	0.00	0.00	0.00
26,700.0	89.00	359.39	11,660.3	15,177.2	458.4	15,171.5	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Gaines Baty State Com #242H
Company:	Matador Production Company	TVD Reference:	KB @ 3867.5usft
Project:	Twin Lakes	MD Reference:	KB @ 3867.5usft
Site:	Gaines Baty	North Reference:	Grid
Well:	Gaines Baty State Com #242H	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)
26,800.0	89.00	359.39	11,662.0	15,277.2	457.3	15,271.5	0.00	0.00	0.00
26,900.0	89.00	359.39	11,663.8	15,377.2	456.3	15,371.5	0.00	0.00	0.00
26,912.8	89.00	359.39	11,664.0	15,390.0	456.1	15,384.3	0.00	0.00	0.00
TD at 26912.8 - BHL - Gaines Baty State Com #242H									

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 - Gaines Baty State	0.00	0.00	10,826.0	-306.6	624.2	717,102.00	829,545.00	32° 58' 0.344 N	103° 15' 31.919 W
- plan hits target center									
- Point									
FTP - Gaines Baty State	0.00	0.00	11,400.0	-256.6	623.2	717,152.00	829,544.00	32° 58' 0.839 N	103° 15' 31.925 W
- plan misses target center by 203.7usft at 11326.2usft MD (11245.3 TVD, -124.1 N, 622.3 E)									
- Point									
BHL - Gaines Baty State	0.00	0.00	11,664.0	15,390.0	456.1	732,799.00	829,377.00	33° 0' 35.658 N	103° 15' 32.009 W
- plan hits target center									
- Point									

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,068.0	2,068.0	Rustler Anhydrite		1.00	359.39
2,188.0	2,188.0	Top Salt		1.00	359.39
3,001.4	2,999.6	Base Salt		1.00	359.39
3,208.0	3,205.5	Yates		1.00	359.39
3,474.8	3,471.3	Seven Rivers		1.00	359.39
4,082.7	4,076.9	Queen		1.00	359.39
4,907.3	4,898.3	San Andres		1.00	359.39
6,537.4	6,522.2	Gloriata Sand		1.00	359.39
7,665.9	7,646.4	Tubb		1.00	359.39
8,410.2	8,387.9	Abo		1.00	359.39
9,983.2	9,954.8	Wolfcamp		1.00	359.39
10,171.7	10,142.7	XX Marker		1.00	359.39
10,604.4	10,574.5	Base of Three Brothers (BTBR Marker)		1.00	359.39
10,773.4	10,743.5	Cisco Carbonate		1.00	359.39
11,096.2	11,059.4	Wolfcamp D / Penn Sh.		1.00	359.39

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Gaines Baty State Com #242H
Company:	Matador Production Company	TVD Reference:	KB @ 3867.5usft
Project:	Twin Lakes	MD Reference:	KB @ 3867.5usft
Site:	Gaines Baty	North Reference:	Grid
Well:	Gaines Baty State Com #242H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,210.0	2,210.0	0.0	0.0	Start Build 1.00
2,710.0	2,709.4	-9.6	19.6	Start 7562.5 hold at 2710.0 MD
10,272.5	10,243.1	-300.2	611.2	Start Drop -1.50
10,605.8	10,576.0	-306.6	624.2	Start 250.0 hold at 10605.8 MD
10,855.8	10,826.0	-306.6	624.2	Start Build 10.00
11,745.8	11,398.9	256.3	618.2	Start 1330.5 hold at 11745.8 MD
13,076.3	11,422.1	1,586.5	604.1	Start DLS 2.00 TFO -90.13
13,795.8	11,434.7	2,297.4	506.6	Start Turn 2.00
15,234.8	11,460.4	3,721.0	491.2	Start DLS 2.00 TFO -90.12
15,953.3	11,473.0	4,432.8	573.2	Start 10959.5 hold at 15953.3 MD
26,912.8	11,664.0	15,390.0	456.1	TD at 26912.8