

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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 394245

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 30-025-55286
4. Property Code 337802	5. Property Name Monika 1411 Com	6. Well No. 133H

7. Surface Location

UL - Lot O	Section 14	Township 17S	Range 37E	Lot Idn O	Feet From 1267	N/S Line S	Feet From 1598	E/W Line E	County Lea
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8. Proposed Bottom Hole Location

UL - Lot B	Section 11	Township 17S	Range 37E	Lot Idn B	Feet From 110	N/S Line N	Feet From 2310	E/W Line E	County Lea
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9. Pool Information

HOBBS CHANNEL;BONE SPRING	31705
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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 3732
16. Multiple N	17. Proposed Depth 19943	18. Formation Bone Spring	19. Contractor	20. Spud Date 10/19/2025
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	2245	2156	0
Int1	9.875	7.625	29.7	9086	1473	0
Prod	8.75	5.5	17	19943	942	0

Casing/Cement Program: Additional Comments

Optional DV/Packer placed at least 50' outside shoe

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 hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well. 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: 9/9/2025	OIL CONSERVATION DIVISION Approved By: Jeffrey Harrison Title: Petroleum Specialist III Approved Date: 9/26/2025 Expiration Date: 9/26/2027 Conditions of Approval Attached
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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		

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-55286	Pool Code 31705	Pool Name HOBBS CHANNEL; BONE SPRING
Property Code 337802	Property Name MONIKA 1411 COM	Well Number 133H
OGRID No. 228937	Operator Name MATADOR PRODUCTION COMPANY	Ground Level Elevation 3732'
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
O	14	17-S	37-E	-	1267' S	1598' E	N 32.8309729	W 103.2187400	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
B	11	17-S	37-E	-	110' N	2310' E	N 32.8562234	W 103.2210775	LEA

Dedicated Acres 320	Infill or Defining Well Defining	Defining Well API Pending	Overlapping Spacing Unit (Y/N) N	Consolidated Code C
Order Numbers N/A			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
O	14	17-S	37-E	-	50' S	2310' E	N 32.8276324	W 103.2210513	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
O	14	17-S	37-E	-	100' S	2310' E	N 32.8277698	W 103.2210516	LEA

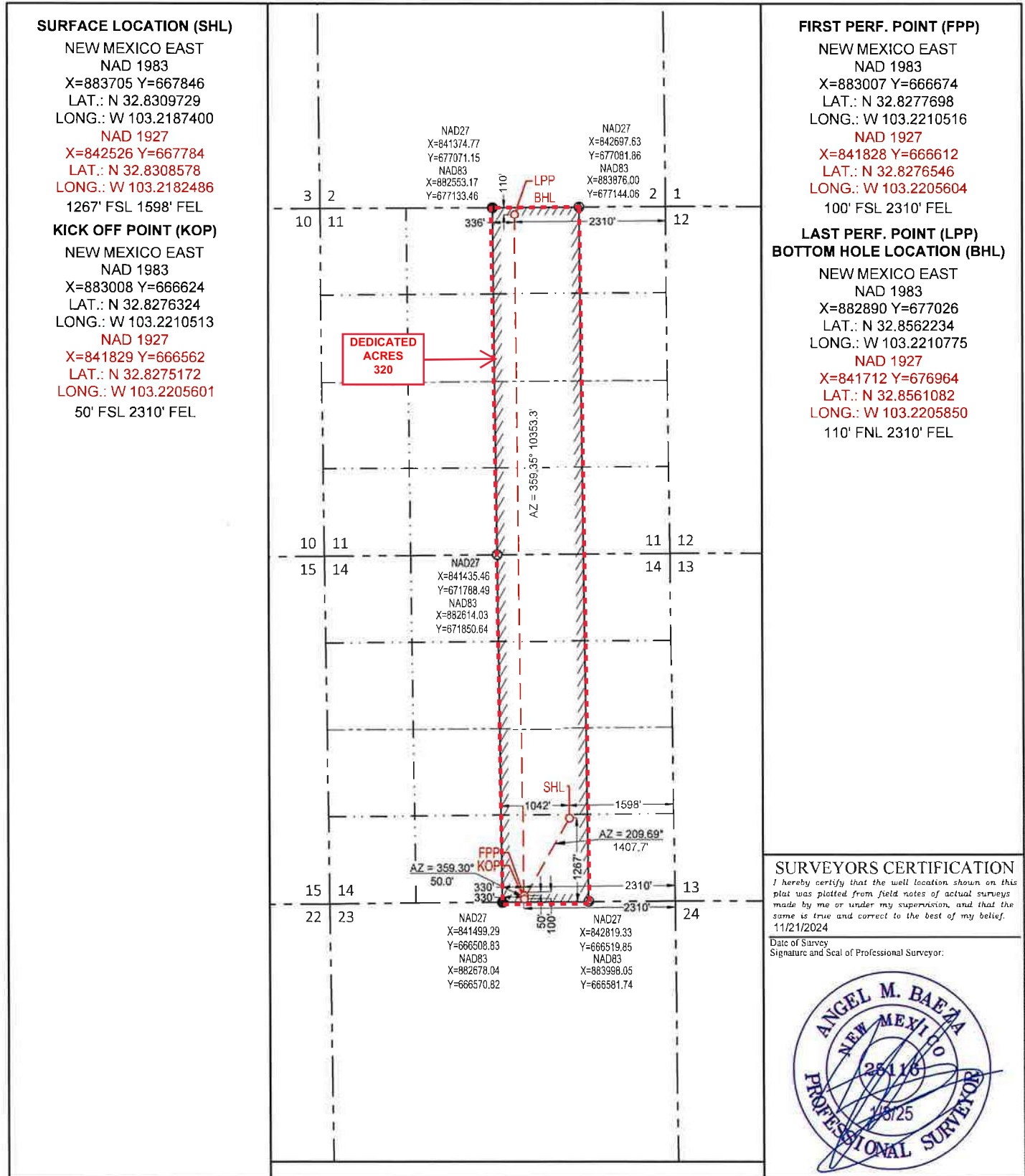
Last Take Point (LTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
B	11	17-S	37-E	-	110' N	2310' E	N 32.8562234	W 103.2210775	LEA

Unitized Area or Area of Uniform Interest N/A	Spacing Unity Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation 3732'
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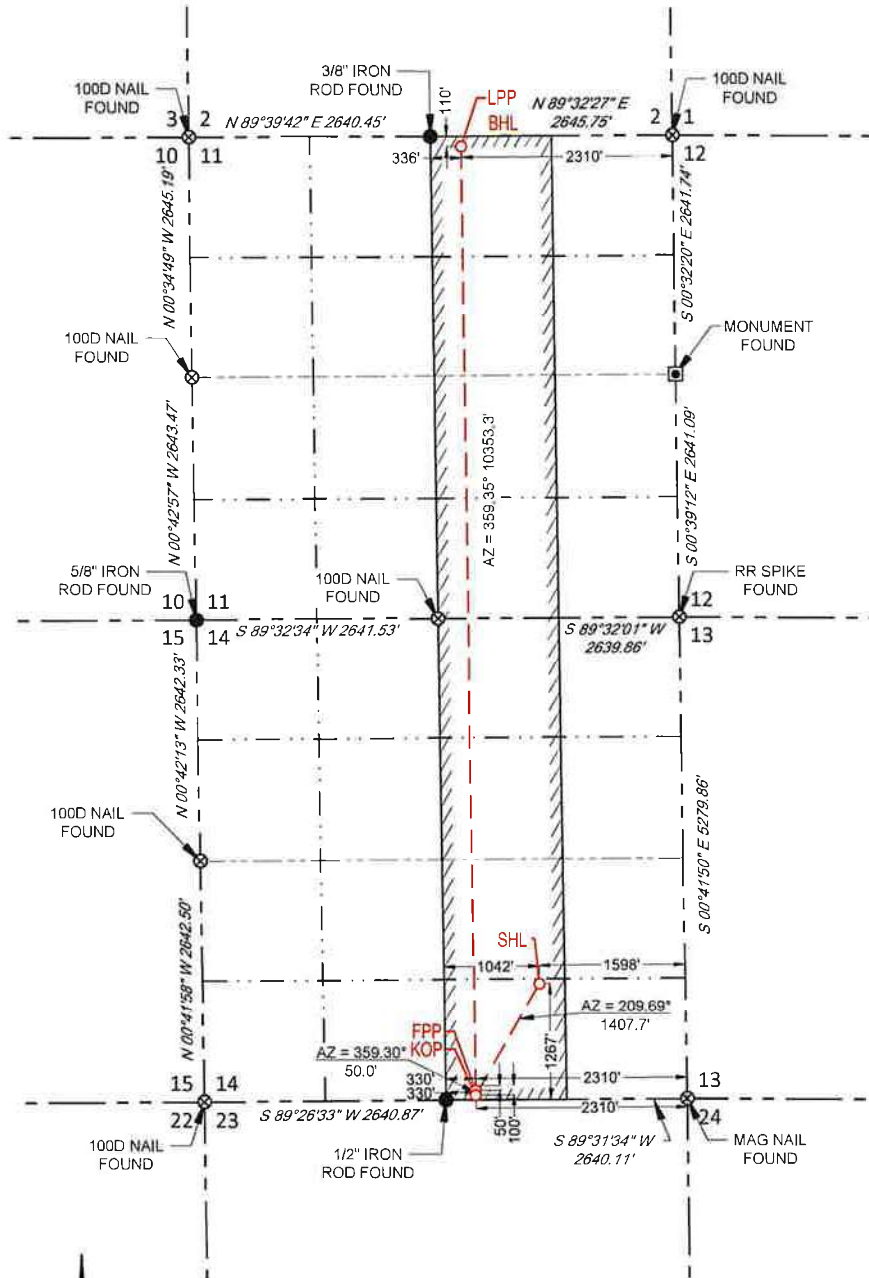
OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed 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. 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.		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.	
Signature: <i>Addison Costley</i> Date: <i>6/19/2025</i>		Signature and Seal of Professional Surveyor: <i>Angel M. Baez</i> Date: <i>11/21/2024</i>	
Print Name: <i>Addison Costley</i> E-mail Address: <i>Addison.Costley@matadorresources.com</i>		Certificate Number: <i>25116</i> Date of Survey: <i>11/21/2024</i>	

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 MONIKA 1411 COM 133H		





SECTION 14, TOWNSHIP 17-S, RANGE 37-E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

**SURFACE LOCATION (SHL)**

NEW MEXICO EAST
NAD 1983

X=883705 Y=667846

LAT.: N 32.8309729

LONG.: W 103.2187400

1267' FSL 1598' FEL

KICK OFF POINT (KOP)

NEW MEXICO EAST
NAD 1983

X=883008 Y=666624

LAT.: N 32.8276324

LONG.: W 103.2210513

50' FSL 2310' FEL

FIRST PERF. POINT (FPP)

NEW MEXICO EAST
NAD 1983

X=883007 Y=666674

LAT.: N 32.8277698

LONG.: W 103.2210516

100' FSL 2310' FEL

**LAST PERF. POINT (LPP)
BOTTOM HOLE LOCATION (BHL)**

NEW MEXICO EAST
NAD 1983

X=882890 Y=677026

LAT.: N 32.8562234

LONG.: W 103.2210775

110' FNL 2310' FEL



SCALE: 1" = 2000'
0' 1000' 2000'

LEASE NAME & WELL NO.: MONIKA 1411 COM 133H

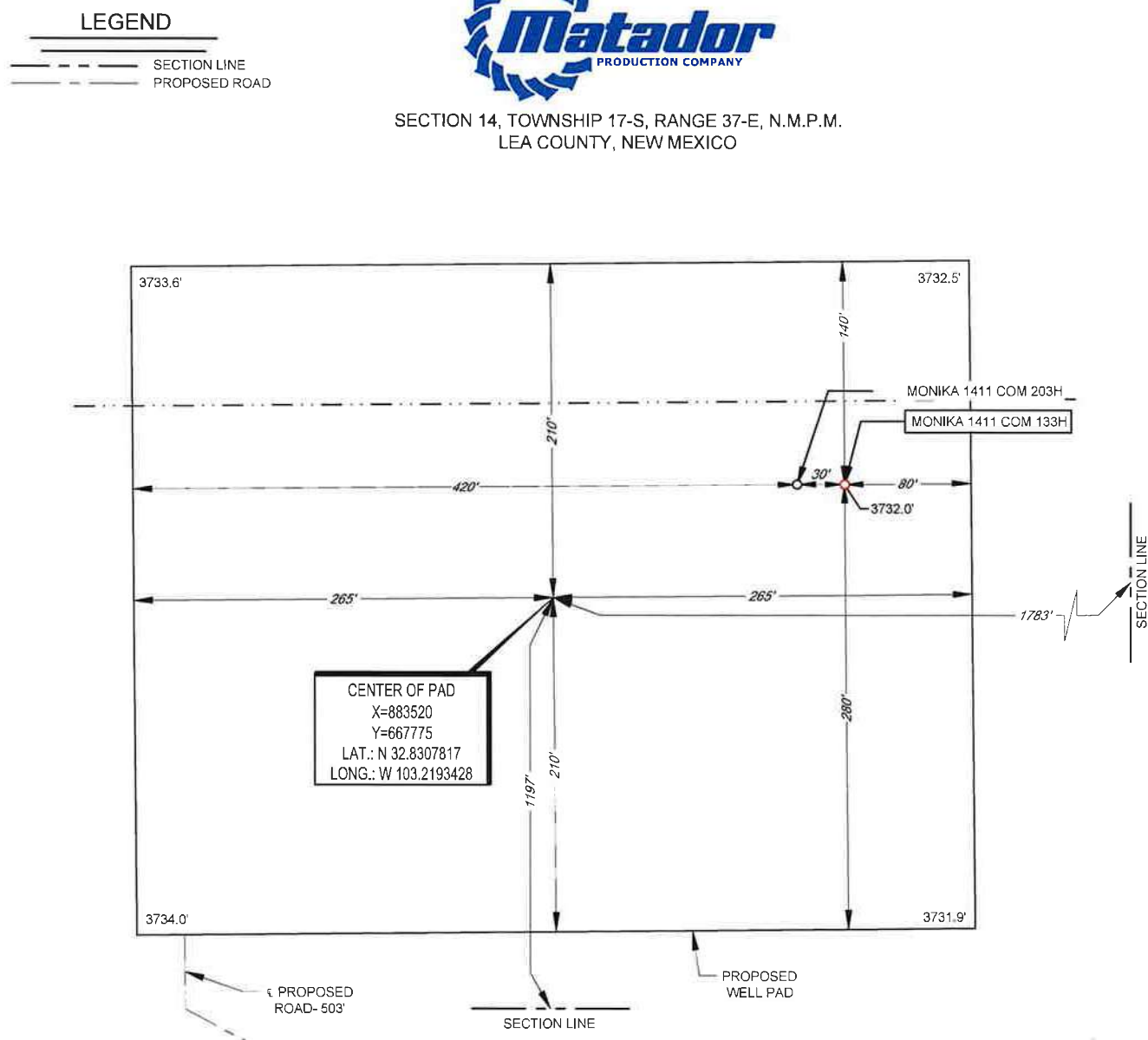
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SECTION 14 TWP 17-S RGE 37-E SURVEY N.M.P.M.





SECTION 14, TOWNSHIP 17-S, RANGE 37-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



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

LEASE NAME & WELL NO.: MONIKA 1411 COM 133H
133H LATITUDE N 32.8309729 133H LONGITUDE W 103.2187400

CENTER OF PAD IS 1197' FSL & 1783' FEL



SCALE: 1" = 100'



0' 50' 100'



481 WINSKOTT 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
WWW.TOPOGRAPHIC.COM

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"

S:\SURVEY\MATADOR_RESOURCES\MONIKA_1411_14-17S-37E\FINAL_PRODUCTS\LO_MONIKA_1411_COM_133H_REV1.DWG 1/3/2025 7:32:09 AM chris.bosley

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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 Comments

Permit 394245

PERMIT COMMENTS

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240		API Number: 30-025-55286
		Well: Monika 1411 Com #133H

Created By	Comment	Comment Date
jeffrey.harrison	Please correctly re-orient and upload the PDF of form C-102 upon resubmittal.	9/8/2025
jeffrey.harrison	Fee Cancellation - Stuck in pending payment, rejecting to return to operator for re-submit.	9/9/2025
jeffrey.harrison	Submitted as defining well for spacing unit.	9/26/2025

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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 394245

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	API Number: 30-025-55286
	Well: Monika 1411 Com #133H

OCD Reviewer	Condition
jeffrey.harrison	Cement is required to circulate on both surface and intermediate1 strings of casing.
jeffrey.harrison	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
jeffrey.harrison	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.
jeffrey.harrison	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.
jeffrey.harrison	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.
jeffrey.harrison	All logs run on the well must be submitted to NMOCD.

Well Name: Monika #133H											
STRING	FLUID TYPE	HOLE SZ	CSG SZ	CSG GRADE	CSG WT	DEPTH SET	TOP CSG	TTL SX CEMENT	CLASS	EST TOC (CMT)	ADDITIONAL INFO FOR CSG/CMT PROGRAM (Optional)
Surface	Fresh Water	17.5	13.375	J-55	54.50	2245	0	2156	C	0	Optional DV/Packer placed at least 50' outside shoe
Intermediate 1	Diesel-Brine Emulsion	9.875	7.625	P-110	29.70	9086	0	1473	C	0	
Production	Oil-based Mud	8.75	5.5	P-110	17.00	19943	0	942	C	0	

Fluid Type

Pick List Choices

Air

Fresh Water

Cut Brine

Brine

Produced Water

Mud

Oil-Based Mud

Addendum to Natural Gas Management Plan for Matador's**Monika 1411 Com 133H****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
Monika 1411 Com 133H	900	1350	1500

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Matador Production Company **OGRID:** 228937 **Date:** 6/19/2025

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
Monika 1411 Com 133H	TBD	UL-O 14-17S-37E	1267' FSL 1598' FEL	900	1350	1500

IV. Central Delivery Point Name: Monika CTB [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	10/19/2025	11/19/2025	12/17/2025	1/17/2026	1/20/2026

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: 6/19/2025
Phone: (915) 240-3468
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Matador Production Company

Twin Lakes

Monika

Monika 1411 Com #133H

State Plan #1

Wellbore #1

Anticollision Summary Report

25 June, 2025

Anticollision Summary Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Monika 1411 Com #133H
Project:	Twin Lakes	TVD Reference:	KB @ 3760.5usft
Reference Site:	Monika	MD Reference:	KB @ 3760.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Monika 1411 Com #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	State Plan #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Wellbore #1	Offset TVD Reference:	Offset Datum

Reference	Wellbore #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,368.5 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	6/25/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	19,943.3	Wellbore #1 (State Plan #1)	MWD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Jackson Coker						
Jackson Coker #1 - Wellbore #1 - Actual						Out of range
Jackson Coker #1 - Wellbore #1 - Legacy Plan v3						Out of range
Jackson Coker #1 - Wellbore #1 - Plan #1 - 3° upper tang						Out of range
Jackson Coker #1 - Wellbore #1 - Plan #2 - 1.5° smooth						Out of range
Jackson Coker #1 - Wellbore #1 - Plan #3 - 3° lower tang						Out of range
Jackson Coker #2 - Wellbore #1 - Actual	14,956.7	9,294.1	925.8	803.5	7.570	CC, ES
Jackson Coker #2 - Wellbore #1 - Actual	15,000.0	9,284.5	926.7	803.7	7.533	SF
Jackson Coker #2 - Wellbore #1 - Legacy Plan #4	14,956.1	9,306.9	920.5	798.4	7.539	CC, ES
Jackson Coker #2 - Wellbore #1 - Legacy Plan #4	15,000.0	9,303.2	921.5	798.6	7.499	SF
Shipp #1A - Wellbore #1 - Actual	16,925.9	8,950.0	913.3	623.7	3.153	CC, ES
Shipp #1A - Wellbore #1 - Actual	17,000.0	8,950.0	916.3	625.1	3.147	SF
Shipp #4 - Wellbore #1 - Actual						Out of range
Monika						
Bureaucrat AGV #1 - Wellbore #1 - Actual	12,916.4	9,408.0	1,017.9	744.4	3.721	CC, ES
Bureaucrat AGV #1 - Wellbore #1 - Actual	13,000.0	9,404.4	1,021.4	746.6	3.717	SF
Humble City ADH #001 - Wellbore #1 - Wellbore #1	15,455.6	9,221.2	200.4	74.7	1.594	CC, ES, SF
Lea Farms #1 - Wellbore #1 - Actual	12,617.8	9,428.5	905.5	650.2	3.547	CC, ES, SF
Lea Farms #2 - Wellbore #1 - Wellbore #1	14,191.8	9,323.4	304.3	35.2	1.131	Level 2, CC, ES, SF
Lea Farms #3 - Wellbore #1 - Design #1	14,106.7	9,316.7	349.8	103.5	1.420	Level 3, CC, ES, SF
Lottie York #1 - Wellbore #1 - Wellbore #1	743.5	738.5	852.3	839.9	68.862	CC
Lottie York #1 - Wellbore #1 - Wellbore #1	1,300.0	1,294.3	856.1	830.2	33.067	ES
Lottie York #1 - Wellbore #1 - Wellbore #1	5,200.0	5,099.6	1,353.8	1,240.1	11.903	SF
Lottie York #2 - Wellbore #1 - Wellbore #1	1,000.0	999.0	450.6	432.8	25.199	CC
Lottie York #2 - Wellbore #1 - Wellbore #1	11,146.6	9,540.8	534.6	305.8	2.337	ES, SF
Lottie York #3 - Wellbore #1 - Wellbore #1	11,533.2	9,504.2	805.7	562.3	3.310	CC, ES, SF
Monika #1 - Wellbore #1 - Actual	13,216.2	9,402.0	406.5	311.9	4.297	CC, ES, SF
Monika #1 - Wellbore #1 - Legacy Plan #1	13,220.6	9,405.2	426.7	331.5	4.482	CC, ES, SF
Monika 1411 Com #203H - State Plan #1 - Wellbore #1	1,290.1	1,289.6	26.2	17.5	3.006	CC
Monika 1411 Com #203H - State Plan #1 - Wellbore #1	1,300.0	1,300.5	26.2	17.4	2.984	ES, SF
Monika Hoizontal - Dummy Well - Wellbore #1 - Prototype	12,125.8	9,508.5	102.4	20.1	1.244	Level 2, CC, ES, SF
Weissbeir #001H - Wellbore #1 - Wellbore #1	9,320.2	9,435.1	532.2	460.4	7.412	CC, ES, SF
Weissbeir #002H - Wellbore #1 - Wellbore #1	4,656.5	4,569.7	638.5	602.5	17.732	CC
Weissbeir #002H - Wellbore #1 - Wellbore #1	4,700.0	4,611.0	638.6	602.2	17.558	ES
Weissbeir #002H - Wellbore #1 - Wellbore #1	5,800.0	5,667.5	695.3	650.4	15.481	SF

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

Anticollision Summary Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Monika 1411 Com #133H
Project:	Twin Lakes	TVD Reference:	KB @ 3760.5usft
Reference Site:	Monika	MD Reference:	KB @ 3760.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Monika 1411 Com #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	State Plan #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Wellbore #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3760.5usft

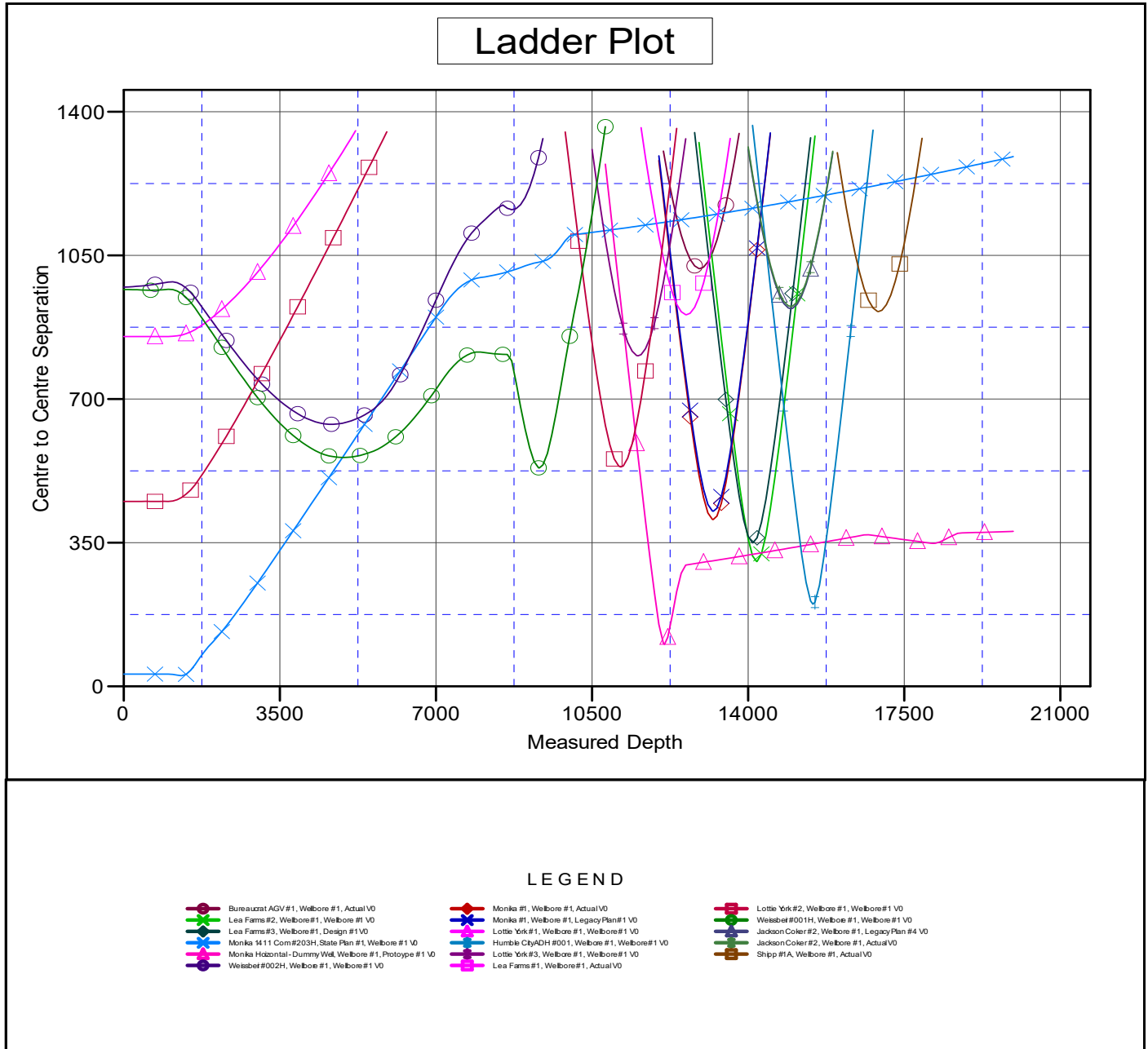
Coordinates are relative to: Monika 1411 Com #133H

Offset Depths are relative to Offset Datum

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Central Meridian is 104° 20' 0.000 W

Grid Convergence at Surface is: 0.60°



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

Anticollision Summary Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Monika 1411 Com #133H
Project:	Twin Lakes	TVD Reference:	KB @ 3760.5usft
Reference Site:	Monika	MD Reference:	KB @ 3760.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Monika 1411 Com #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	State Plan #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Wellbore #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3760.5usft

Offset Depths are relative to Offset Datum

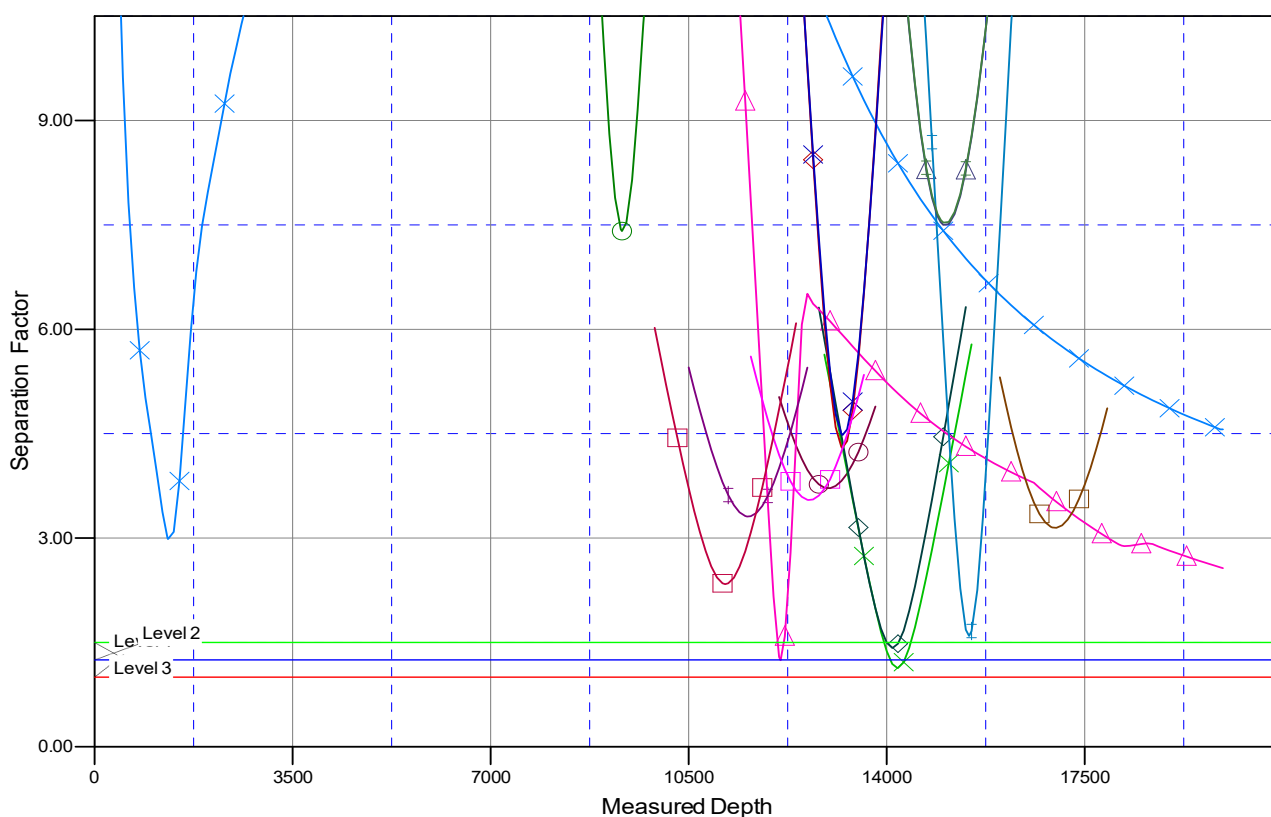
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Monika 1411 Com #133H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.60°

Separation Factor Plot



LEGEND

- Bureau of Geology #1, Wellbore #1, Actual V0 - Lea Fams #2, Wellbore #1, Wellbore #1 V0 - Lea Fams #3, Wellbore #1, Design #1 V0 - Monika 1411 Com #203H, State Plan #1, Wellbore #1 V0 - Monika Horizontal-Dummy Well, Wellbore #1, Prototype #1 V0 - Wellbore #002H, Wellbore #1, Wellbore #1 V0	- Monika #1, Wellbore #1, Actual V0 - Monika #1, Wellbore #1, Legacy Plan #1 V0 - Lotte York #1, Wellbore #1, Wellbore #1 V0 - Humble City ADH #001, Wellbore #1, Wellbore #1 V0 - Lotte York #3, Wellbore #1, Wellbore #1 V0 - Lea Fams #1, Wellbore #1, Actual V0	- Lotte York #2, Wellbore #1, Wellbore #1 V0 - Wellbore #001H, Wellbore #1, Wellbore #1 V0 - Jackson Coler #2, Wellbore #1, Legacy Plan #4 V0 - Jackson Coler #2, Wellbore #1, Actual V0 - Shipp #1 A, Wellbore #1, Actual V0
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CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Matador Production Company

Twin Lakes

Monika

Monika 1411 Com #133H

State Plan #1

Plan: Wellbore #1

Standard Planning Report

25 June, 2025

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Monika 1411 Com #133H
Company:	Matador Production Company	TVD Reference:	KB @ 3760.5usft
Project:	Twin Lakes	MD Reference:	KB @ 3760.5usft
Site:	Monika	North Reference:	Grid
Well:	Monika 1411 Com #133H	Survey Calculation Method:	Minimum Curvature
Wellbore:	State Plan #1		
Design:	Wellbore #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	Monika					
Site Position:		Northing:	669,663.68 usft	Latitude:	32° 50' 9.758 N	
From:	Lat/Long	Easting:	841,779.89 usft	Longitude:	103° 13' 14.207 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.60 °

Well	Monika 1411 Com #133H					
Well Position	+N/-S	-1,879.6 usft	Northing:	667,784.00 usft	Latitude:	32° 49' 51.084 N
	+E/-W	746.1 usft	Easting:	842,526.00 usft	Longitude:	103° 13' 5.696 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,732.0 usft

Wellbore	State Plan #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/31/2024	6.10	60.57	47,642.90016722

Design		Wellbore #1				
Audit Notes:						
Version:	1	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	359.00	

Plan Survey Tool Program		Date	6/25/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	19,943.3 Wellbore #1 (State Plan #1)	MWD	OWSG MWD - Standard	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,650.0	13.00	209.56	1,644.4	-63.9	-36.2	2.00	2.00	0.00	209.56	
7,134.4	13.00	209.56	6,988.2	-1,137.0	-644.8	0.00	0.00	0.00	0.00	
8,001.0	0.00	0.00	7,847.5	-1,222.2	-693.1	1.50	-1.50	0.00	180.00	
9,186.1	0.00	0.00	9,032.6	-1,222.2	-693.1	0.00	0.00	0.00	0.00	KOP - Monika 1411 C
10,128.4	94.23	359.35	9,604.0	-607.0	-700.1	10.00	10.00	0.00	359.35	
19,943.5	94.23	359.35	8,880.0	9,180.7	-811.1	0.00	0.00	0.00	0.00	BHL - Monika 1411 C

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Monika 1411 Com #133H
Company:	Matador Production Company	TVD Reference:	KB @ 3760.5usft
Project:	Twin Lakes	MD Reference:	KB @ 3760.5usft
Site:	Monika	North Reference:	Grid
Well:	Monika 1411 Com #133H	Survey Calculation Method:	Minimum Curvature
Wellbore:	State Plan #1		
Design:	Wellbore #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
Start Build 2.00									
1,100.0	2.00	209.56	1,100.0	-1.5	-0.9	-1.5	2.00	2.00	0.00
1,200.0	4.00	209.56	1,199.8	-6.1	-3.4	-6.0	2.00	2.00	0.00
1,300.0	6.00	209.56	1,299.5	-13.7	-7.7	-13.5	2.00	2.00	0.00
1,400.0	8.00	209.56	1,398.7	-24.3	-13.8	-24.0	2.00	2.00	0.00
1,500.0	10.00	209.56	1,497.5	-37.9	-21.5	-37.5	2.00	2.00	0.00
1,600.0	12.00	209.56	1,595.6	-54.5	-30.9	-53.9	2.00	2.00	0.00
1,650.0	13.00	209.56	1,644.4	-63.9	-36.2	-63.2	2.00	2.00	0.00
Start 5484.4 hold at 1650.0 MD									
1,700.0	13.00	209.56	1,693.2	-73.7	-41.8	-72.9	0.00	0.00	0.00
1,800.0	13.00	209.56	1,790.6	-93.2	-52.9	-92.3	0.00	0.00	0.00
1,900.0	13.00	209.56	1,888.0	-112.8	-64.0	-111.7	0.00	0.00	0.00
2,000.0	13.00	209.56	1,985.5	-132.4	-75.1	-131.0	0.00	0.00	0.00
2,100.0	13.00	209.56	2,082.9	-151.9	-86.2	-150.4	0.00	0.00	0.00
2,200.0	13.00	209.56	2,180.3	-171.5	-97.3	-169.8	0.00	0.00	0.00
2,254.4	13.00	209.56	2,233.4	-182.1	-103.3	-180.3	0.00	0.00	0.00
Rustler									
2,300.0	13.00	209.56	2,277.8	-191.1	-108.3	-189.1	0.00	0.00	0.00
2,400.0	13.00	209.56	2,375.2	-210.6	-119.4	-208.5	0.00	0.00	0.00
2,500.0	13.00	209.56	2,472.7	-230.2	-130.5	-227.9	0.00	0.00	0.00
2,600.0	13.00	209.56	2,570.1	-249.8	-141.6	-247.3	0.00	0.00	0.00
2,700.0	13.00	209.56	2,667.5	-269.3	-152.7	-266.6	0.00	0.00	0.00
2,800.0	13.00	209.56	2,765.0	-288.9	-163.8	-286.0	0.00	0.00	0.00
2,900.0	13.00	209.56	2,862.4	-308.5	-174.9	-305.4	0.00	0.00	0.00
3,000.0	13.00	209.56	2,959.8	-328.0	-186.0	-324.7	0.00	0.00	0.00
3,100.0	13.00	209.56	3,057.3	-347.6	-197.1	-344.1	0.00	0.00	0.00
3,200.0	13.00	209.56	3,154.7	-367.2	-208.2	-363.5	0.00	0.00	0.00
3,300.0	13.00	209.56	3,252.1	-386.7	-219.3	-382.8	0.00	0.00	0.00
3,400.0	13.00	209.56	3,349.6	-406.3	-230.4	-402.2	0.00	0.00	0.00
3,500.0	13.00	209.56	3,447.0	-425.9	-241.5	-421.6	0.00	0.00	0.00
3,587.8	13.00	209.56	3,532.6	-443.0	-251.3	-438.6	0.00	0.00	0.00
Base salts/top Artesia grp sands									
3,600.0	13.00	209.56	3,544.5	-445.4	-252.6	-441.0	0.00	0.00	0.00
3,700.0	13.00	209.56	3,641.9	-465.0	-263.7	-460.3	0.00	0.00	0.00
3,800.0	13.00	209.56	3,739.3	-484.6	-274.8	-479.7	0.00	0.00	0.00
3,900.0	13.00	209.56	3,836.8	-504.1	-285.9	-499.1	0.00	0.00	0.00
4,000.0	13.00	209.56	3,934.2	-523.7	-297.0	-518.4	0.00	0.00	0.00
4,100.0	13.00	209.56	4,031.6	-543.3	-308.1	-537.8	0.00	0.00	0.00
4,200.0	13.00	209.56	4,129.1	-562.8	-319.2	-557.2	0.00	0.00	0.00
4,300.0	13.00	209.56	4,226.5	-582.4	-330.3	-576.6	0.00	0.00	0.00
4,400.0	13.00	209.56	4,324.0	-602.0	-341.4	-595.9	0.00	0.00	0.00
4,500.0	13.00	209.56	4,421.4	-621.5	-352.5	-615.3	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Monika 1411 Com #133H
Company:	Matador Production Company	TVD Reference:	KB @ 3760.5usft
Project:	Twin Lakes	MD Reference:	KB @ 3760.5usft
Site:	Monika	North Reference:	Grid
Well:	Monika 1411 Com #133H	Survey Calculation Method:	Minimum Curvature
Wellbore:	State Plan #1		
Design:	Wellbore #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,600.0	13.00	209.56	4,518.8	-641.1	-363.6	-634.7	0.00	0.00	0.00
4,700.0	13.00	209.56	4,616.3	-660.7	-374.7	-654.0	0.00	0.00	0.00
4,800.0	13.00	209.56	4,713.7	-680.2	-385.8	-673.4	0.00	0.00	0.00
4,900.0	13.00	209.56	4,811.1	-699.8	-396.9	-692.8	0.00	0.00	0.00
5,000.0	13.00	209.56	4,908.6	-719.4	-408.0	-712.2	0.00	0.00	0.00
5,100.0	13.00	209.56	5,006.0	-739.0	-419.1	-731.5	0.00	0.00	0.00
5,200.0	13.00	209.56	5,103.5	-758.5	-430.2	-750.9	0.00	0.00	0.00
5,300.0	13.00	209.56	5,200.9	-778.1	-441.3	-770.3	0.00	0.00	0.00
5,306.5	13.00	209.56	5,207.3	-779.4	-442.0	-771.5	0.00	0.00	0.00
San Andres									
5,400.0	13.00	209.56	5,298.3	-797.7	-452.4	-789.6	0.00	0.00	0.00
5,500.0	13.00	209.56	5,395.8	-817.2	-463.4	-809.0	0.00	0.00	0.00
5,600.0	13.00	209.56	5,493.2	-836.8	-474.5	-828.4	0.00	0.00	0.00
5,700.0	13.00	209.56	5,590.6	-856.4	-485.6	-847.7	0.00	0.00	0.00
5,800.0	13.00	209.56	5,688.1	-875.9	-496.7	-867.1	0.00	0.00	0.00
5,900.0	13.00	209.56	5,785.5	-895.5	-507.8	-886.5	0.00	0.00	0.00
6,000.0	13.00	209.56	5,882.9	-915.1	-518.9	-905.9	0.00	0.00	0.00
6,100.0	13.00	209.56	5,980.4	-934.6	-530.0	-925.2	0.00	0.00	0.00
6,200.0	13.00	209.56	6,077.8	-954.2	-541.1	-944.6	0.00	0.00	0.00
6,300.0	13.00	209.56	6,175.3	-973.8	-552.2	-964.0	0.00	0.00	0.00
6,400.0	13.00	209.56	6,272.7	-993.3	-563.3	-983.3	0.00	0.00	0.00
6,500.0	13.00	209.56	6,370.1	-1,012.9	-574.4	-1,002.7	0.00	0.00	0.00
6,600.0	13.00	209.56	6,467.6	-1,032.5	-585.5	-1,022.1	0.00	0.00	0.00
6,700.0	13.00	209.56	6,565.0	-1,052.0	-596.6	-1,041.5	0.00	0.00	0.00
6,800.0	13.00	209.56	6,662.4	-1,071.6	-607.7	-1,060.8	0.00	0.00	0.00
6,900.0	13.00	209.56	6,759.9	-1,091.2	-618.8	-1,080.2	0.00	0.00	0.00
7,000.0	13.00	209.56	6,857.3	-1,110.7	-629.9	-1,099.6	0.00	0.00	0.00
7,100.0	13.00	209.56	6,954.8	-1,130.3	-641.0	-1,118.9	0.00	0.00	0.00
7,134.4	13.00	209.56	6,988.2	-1,137.0	-644.8	-1,125.6	0.00	0.00	0.00
Start Drop -1.50									
7,181.5	12.29	209.56	7,034.2	-1,146.0	-649.9	-1,134.5	1.50	-1.50	0.00
Glorieta									
7,200.0	12.02	209.56	7,052.3	-1,149.4	-651.8	-1,137.8	1.50	-1.50	0.00
7,300.0	10.52	209.56	7,150.4	-1,166.4	-661.5	-1,154.7	1.50	-1.50	0.00
7,400.0	9.02	209.56	7,248.9	-1,181.1	-669.8	-1,169.3	1.50	-1.50	0.00
7,500.0	7.52	209.56	7,347.9	-1,193.6	-676.9	-1,181.6	1.50	-1.50	0.00
7,600.0	6.02	209.56	7,447.2	-1,203.9	-682.7	-1,191.8	1.50	-1.50	0.00
7,700.0	4.52	209.56	7,546.8	-1,211.9	-687.3	-1,199.7	1.50	-1.50	0.00
7,800.0	3.02	209.56	7,646.5	-1,217.6	-690.5	-1,205.3	1.50	-1.50	0.00
7,900.0	1.52	209.56	7,746.5	-1,221.0	-692.4	-1,208.7	1.50	-1.50	0.00
8,000.0	0.02	209.56	7,846.5	-1,222.2	-693.1	-1,209.9	1.50	-1.50	0.00
8,001.0	0.00	0.00	7,847.5	-1,222.2	-693.1	-1,209.9	1.50	-1.50	14,790.61
Start 1185.1 hold at 8001.0 MD									
8,100.0	0.00	0.00	7,946.5	-1,222.2	-693.1	-1,209.9	0.00	0.00	0.00
8,200.0	0.00	0.00	8,046.5	-1,222.2	-693.1	-1,209.9	0.00	0.00	0.00
8,300.0	0.00	0.00	8,146.5	-1,222.2	-693.1	-1,209.9	0.00	0.00	0.00
8,400.0	0.00	0.00	8,246.5	-1,222.2	-693.1	-1,209.9	0.00	0.00	0.00
8,500.0	0.00	0.00	8,346.5	-1,222.2	-693.1	-1,209.9	0.00	0.00	0.00
8,600.0	0.00	0.00	8,446.5	-1,222.2	-693.1	-1,209.9	0.00	0.00	0.00
8,643.4	0.00	0.00	8,489.8	-1,222.2	-693.1	-1,209.9	0.00	0.00	0.00
Second Bone Spring Sand									
8,700.0	0.00	0.00	8,546.5	-1,222.2	-693.1	-1,209.9	0.00	0.00	0.00
8,800.0	0.00	0.00	8,646.5	-1,222.2	-693.1	-1,209.9	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Monika 1411 Com #133H
Company:	Matador Production Company	TVD Reference:	KB @ 3760.5usft
Project:	Twin Lakes	MD Reference:	KB @ 3760.5usft
Site:	Monika	North Reference:	Grid
Well:	Monika 1411 Com #133H	Survey Calculation Method:	Minimum Curvature
Wellbore:	State Plan #1		
Design:	Wellbore #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)
8,900.0	0.00	0.00	8,746.5	-1,222.2	-693.1	-1,209.9	0.00	0.00	0.00
9,000.0	0.00	0.00	8,846.5	-1,222.2	-693.1	-1,209.9	0.00	0.00	0.00
9,100.0	0.00	0.00	8,946.5	-1,222.2	-693.1	-1,209.9	0.00	0.00	0.00
9,186.1	0.00	0.00	9,032.6	-1,222.2	-693.1	-1,209.9	0.00	0.00	0.00
Start Build 10.00 - KOP - Monika 1411 Com #133H									
9,200.0	1.39	359.35	9,046.5	-1,222.0	-693.1	-1,209.7	10.00	10.00	0.00
9,300.0	11.39	359.35	9,145.7	-1,210.9	-693.2	-1,198.6	10.00	10.00	0.00
9,395.2	20.90	359.35	9,237.0	-1,184.5	-693.5	-1,172.2	10.00	10.00	0.00
Third Bone Spring Carbonate									
9,400.0	21.39	359.35	9,241.5	-1,182.7	-693.6	-1,170.5	10.00	10.00	0.00
9,427.4	24.12	359.35	9,266.8	-1,172.2	-693.7	-1,159.9	10.00	10.00	0.00
FPP - Monika 1411 Com #133H									
9,500.0	31.39	359.35	9,331.0	-1,138.4	-694.1	-1,126.1	10.00	10.00	0.00
9,600.0	41.39	359.35	9,411.4	-1,079.1	-694.7	-1,066.8	10.00	10.00	0.00
9,690.7	50.45	359.35	9,474.4	-1,014.0	-695.5	-1,001.8	10.00	10.00	0.00
Third Bone Spring Sand									
9,700.0	51.39	359.35	9,480.3	-1,006.8	-695.5	-994.5	10.00	10.00	0.00
9,800.0	61.39	359.35	9,535.6	-923.6	-696.5	-911.3	10.00	10.00	0.00
9,900.0	71.39	359.35	9,575.6	-832.1	-697.5	-819.8	10.00	10.00	0.00
10,000.0	81.39	359.35	9,599.1	-735.1	-698.6	-722.8	10.00	10.00	0.00
10,100.0	91.39	359.35	9,605.4	-635.4	-699.8	-623.1	10.00	10.00	0.00
10,128.4	94.23	359.35	9,604.0	-607.0	-700.1	-594.7	10.00	10.00	0.00
Start 9815.1 hold at 10128.4 MD									
10,200.0	94.23	359.35	9,598.7	-535.6	-700.9	-523.3	0.00	0.00	0.00
10,300.0	94.23	359.35	9,591.3	-435.9	-702.0	-423.6	0.00	0.00	0.00
10,400.0	94.23	359.35	9,584.0	-336.2	-703.2	-323.9	0.00	0.00	0.00
10,500.0	94.23	359.35	9,576.6	-236.5	-704.3	-224.2	0.00	0.00	0.00
10,600.0	94.23	359.35	9,569.2	-136.8	-705.4	-124.4	0.00	0.00	0.00
10,700.0	94.23	359.35	9,561.8	-37.0	-706.5	-24.7	0.00	0.00	0.00
10,800.0	94.23	359.35	9,554.5	62.7	-707.7	75.0	0.00	0.00	0.00
10,900.0	94.23	359.35	9,547.1	162.4	-708.8	174.7	0.00	0.00	0.00
11,000.0	94.23	359.35	9,539.7	262.1	-709.9	274.5	0.00	0.00	0.00
11,100.0	94.23	359.35	9,532.3	361.8	-711.1	374.2	0.00	0.00	0.00
11,200.0	94.23	359.35	9,525.0	461.6	-712.2	473.9	0.00	0.00	0.00
11,300.0	94.23	359.35	9,517.6	561.3	-713.3	573.7	0.00	0.00	0.00
11,400.0	94.23	359.35	9,510.2	661.0	-714.5	673.4	0.00	0.00	0.00
11,500.0	94.23	359.35	9,502.8	760.7	-715.6	773.1	0.00	0.00	0.00
11,600.0	94.23	359.35	9,495.5	860.5	-716.7	872.8	0.00	0.00	0.00
11,700.0	94.23	359.35	9,488.1	960.2	-717.9	972.6	0.00	0.00	0.00
11,800.0	94.23	359.35	9,480.7	1,059.9	-719.0	1,072.3	0.00	0.00	0.00
11,900.0	94.23	359.35	9,473.3	1,159.6	-720.1	1,172.0	0.00	0.00	0.00
12,000.0	94.23	359.35	9,466.0	1,259.3	-721.3	1,271.7	0.00	0.00	0.00
12,100.0	94.23	359.35	9,458.6	1,359.1	-722.4	1,371.5	0.00	0.00	0.00
12,200.0	94.23	359.35	9,451.2	1,458.8	-723.5	1,471.2	0.00	0.00	0.00
12,300.0	94.23	359.35	9,443.8	1,558.5	-724.7	1,570.9	0.00	0.00	0.00
12,400.0	94.23	359.35	9,436.4	1,658.2	-725.8	1,670.6	0.00	0.00	0.00
12,500.0	94.23	359.35	9,429.1	1,757.9	-726.9	1,770.4	0.00	0.00	0.00
12,600.0	94.23	359.35	9,421.7	1,857.7	-728.0	1,870.1	0.00	0.00	0.00
12,700.0	94.23	359.35	9,414.3	1,957.4	-729.2	1,969.8	0.00	0.00	0.00
12,800.0	94.23	359.35	9,406.9	2,057.1	-730.3	2,069.5	0.00	0.00	0.00
12,900.0	94.23	359.35	9,399.6	2,156.8	-731.4	2,169.3	0.00	0.00	0.00
13,000.0	94.23	359.35	9,392.2	2,256.5	-732.6	2,269.0	0.00	0.00	0.00
13,100.0	94.23	359.35	9,384.8	2,356.3	-733.7	2,368.7	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Monika 1411 Com #133H
Company:	Matador Production Company	TVD Reference:	KB @ 3760.5usft
Project:	Twin Lakes	MD Reference:	KB @ 3760.5usft
Site:	Monika	North Reference:	Grid
Well:	Monika 1411 Com #133H	Survey Calculation Method:	Minimum Curvature
Wellbore:	State Plan #1		
Design:	Wellbore #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)
13,200.0	94.23	359.35	9,377.4	2,456.0	-734.8	2,468.4	0.00	0.00	0.00
13,300.0	94.23	359.35	9,370.1	2,555.7	-736.0	2,568.2	0.00	0.00	0.00
13,400.0	94.23	359.35	9,362.7	2,655.4	-737.1	2,667.9	0.00	0.00	0.00
13,500.0	94.23	359.35	9,355.3	2,755.2	-738.2	2,767.6	0.00	0.00	0.00
13,600.0	94.23	359.35	9,347.9	2,854.9	-739.4	2,867.3	0.00	0.00	0.00
13,700.0	94.23	359.35	9,340.6	2,954.6	-740.5	2,967.1	0.00	0.00	0.00
13,800.0	94.23	359.35	9,333.2	3,054.3	-741.6	3,066.8	0.00	0.00	0.00
13,900.0	94.23	359.35	9,325.8	3,154.0	-742.8	3,166.5	0.00	0.00	0.00
14,000.0	94.23	359.35	9,318.4	3,253.8	-743.9	3,266.2	0.00	0.00	0.00
14,100.0	94.23	359.35	9,311.1	3,353.5	-745.0	3,366.0	0.00	0.00	0.00
14,200.0	94.23	359.35	9,303.7	3,453.2	-746.1	3,465.7	0.00	0.00	0.00
14,300.0	94.23	359.35	9,296.3	3,552.9	-747.3	3,565.4	0.00	0.00	0.00
14,400.0	94.23	359.35	9,288.9	3,652.6	-748.4	3,665.2	0.00	0.00	0.00
14,500.0	94.23	359.35	9,281.5	3,752.4	-749.5	3,764.9	0.00	0.00	0.00
14,600.0	94.23	359.35	9,274.2	3,852.1	-750.7	3,864.6	0.00	0.00	0.00
14,700.0	94.23	359.35	9,266.8	3,951.8	-751.8	3,964.3	0.00	0.00	0.00
14,800.0	94.23	359.35	9,259.4	4,051.5	-752.9	4,064.1	0.00	0.00	0.00
14,900.0	94.23	359.35	9,252.0	4,151.3	-754.1	4,163.8	0.00	0.00	0.00
15,000.0	94.23	359.35	9,244.7	4,251.0	-755.2	4,263.5	0.00	0.00	0.00
15,100.0	94.23	359.35	9,237.3	4,350.7	-756.3	4,363.2	0.00	0.00	0.00
15,200.0	94.23	359.35	9,229.9	4,450.4	-757.5	4,463.0	0.00	0.00	0.00
15,300.0	94.23	359.35	9,222.5	4,550.1	-758.6	4,562.7	0.00	0.00	0.00
15,400.0	94.23	359.35	9,215.2	4,649.9	-759.7	4,662.4	0.00	0.00	0.00
15,500.0	94.23	359.35	9,207.8	4,749.6	-760.9	4,762.1	0.00	0.00	0.00
15,600.0	94.23	359.35	9,200.4	4,849.3	-762.0	4,861.9	0.00	0.00	0.00
15,700.0	94.23	359.35	9,193.0	4,949.0	-763.1	4,961.6	0.00	0.00	0.00
15,800.0	94.23	359.35	9,185.7	5,048.7	-764.2	5,061.3	0.00	0.00	0.00
15,900.0	94.23	359.35	9,178.3	5,148.5	-765.4	5,161.0	0.00	0.00	0.00
16,000.0	94.23	359.35	9,170.9	5,248.2	-766.5	5,260.8	0.00	0.00	0.00
16,100.0	94.23	359.35	9,163.5	5,347.9	-767.6	5,360.5	0.00	0.00	0.00
16,200.0	94.23	359.35	9,156.2	5,447.6	-768.8	5,460.2	0.00	0.00	0.00
16,300.0	94.23	359.35	9,148.8	5,547.3	-769.9	5,559.9	0.00	0.00	0.00
16,400.0	94.23	359.35	9,141.4	5,647.1	-771.0	5,659.7	0.00	0.00	0.00
16,500.0	94.23	359.35	9,134.0	5,746.8	-772.2	5,759.4	0.00	0.00	0.00
16,600.0	94.23	359.35	9,126.7	5,846.5	-773.3	5,859.1	0.00	0.00	0.00
16,700.0	94.23	359.35	9,119.3	5,946.2	-774.4	5,958.8	0.00	0.00	0.00
16,800.0	94.23	359.35	9,111.9	6,046.0	-775.6	6,058.6	0.00	0.00	0.00
16,900.0	94.23	359.35	9,104.5	6,145.7	-776.7	6,158.3	0.00	0.00	0.00
17,000.0	94.23	359.35	9,097.1	6,245.4	-777.8	6,258.0	0.00	0.00	0.00
17,100.0	94.23	359.35	9,089.8	6,345.1	-779.0	6,357.7	0.00	0.00	0.00
17,200.0	94.23	359.35	9,082.4	6,444.8	-780.1	6,457.5	0.00	0.00	0.00
17,300.0	94.23	359.35	9,075.0	6,544.6	-781.2	6,557.2	0.00	0.00	0.00
17,400.0	94.23	359.35	9,067.6	6,644.3	-782.3	6,656.9	0.00	0.00	0.00
17,500.0	94.23	359.35	9,060.3	6,744.0	-783.5	6,756.6	0.00	0.00	0.00
17,600.0	94.23	359.35	9,052.9	6,843.7	-784.6	6,856.4	0.00	0.00	0.00
17,700.0	94.23	359.35	9,045.5	6,943.4	-785.7	6,956.1	0.00	0.00	0.00
17,800.0	94.23	359.35	9,038.1	7,043.2	-786.9	7,055.8	0.00	0.00	0.00
17,900.0	94.23	359.35	9,030.8	7,142.9	-788.0	7,155.6	0.00	0.00	0.00
18,000.0	94.23	359.35	9,023.4	7,242.6	-789.1	7,255.3	0.00	0.00	0.00
18,100.0	94.23	359.35	9,016.0	7,342.3	-790.3	7,355.0	0.00	0.00	0.00
18,200.0	94.23	359.35	9,008.6	7,442.0	-791.4	7,454.7	0.00	0.00	0.00
18,300.0	94.23	359.35	9,001.3	7,541.8	-792.5	7,554.5	0.00	0.00	0.00
18,400.0	94.23	359.35	8,993.9	7,641.5	-793.7	7,654.2	0.00	0.00	0.00
18,500.0	94.23	359.35	8,986.5	7,741.2	-794.8	7,753.9	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Monika 1411 Com #133H
Company:	Matador Production Company	TVD Reference:	KB @ 3760.5usft
Project:	Twin Lakes	MD Reference:	KB @ 3760.5usft
Site:	Monika	North Reference:	Grid
Well:	Monika 1411 Com #133H	Survey Calculation Method:	Minimum Curvature
Wellbore:	State Plan #1		
Design:	Wellbore #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
18,600.0	94.23	359.35	8,979.1	7,840.9	-795.9	7,853.6	0.00	0.00	0.00	
18,700.0	94.23	359.35	8,971.8	7,940.7	-797.1	7,953.4	0.00	0.00	0.00	
18,800.0	94.23	359.35	8,964.4	8,040.4	-798.2	8,053.1	0.00	0.00	0.00	
18,900.0	94.23	359.35	8,957.0	8,140.1	-799.3	8,152.8	0.00	0.00	0.00	
19,000.0	94.23	359.35	8,949.6	8,239.8	-800.5	8,252.5	0.00	0.00	0.00	
19,100.0	94.23	359.35	8,942.3	8,339.5	-801.6	8,352.3	0.00	0.00	0.00	
19,200.0	94.23	359.35	8,934.9	8,439.3	-802.7	8,452.0	0.00	0.00	0.00	
19,300.0	94.23	359.35	8,927.5	8,539.0	-803.8	8,551.7	0.00	0.00	0.00	
19,400.0	94.23	359.35	8,920.1	8,638.7	-805.0	8,651.4	0.00	0.00	0.00	
19,500.0	94.23	359.35	8,912.7	8,738.4	-806.1	8,751.2	0.00	0.00	0.00	
19,600.0	94.23	359.35	8,905.4	8,838.1	-807.2	8,850.9	0.00	0.00	0.00	
19,700.0	94.23	359.35	8,898.0	8,937.9	-808.4	8,950.6	0.00	0.00	0.00	
19,800.0	94.23	359.35	8,890.6	9,037.6	-809.5	9,050.3	0.00	0.00	0.00	
19,900.0	94.23	359.35	8,883.2	9,137.3	-810.6	9,150.1	0.00	0.00	0.00	
19,943.5	94.23	359.35	8,880.0	9,180.7	-811.1	9,193.5	0.00	0.00	0.00	
TD at 19943.5 - BHL - Monika 1411 Com #133H										

Design Targets										
Target Name										
- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)			
- Shape								Latitude	Longitude	
BHL - Monika 1411 Com	0.00	0.00	8,880.0	9,180.7	-814.1	676,964.00	841,712.00	32° 51' 21.991 N	103° 13' 14.101 W	
- plan misses target center by 2.9usft at 19943.5usft MD (8880.0 TVD, 9180.7 N, -811.1 E)										
- Point										
KOP - Monika 1411 Corr	0.00	0.00	9,032.6	-1,222.2	-693.1	666,562.00	841,833.00	32° 49' 39.066 N	103° 13' 13.967 W	
- plan hits target center										
- Point										
FPP - Monika 1411 Com	0.00	0.00	9,266.7	-1,172.0	-693.6	666,612.18	841,832.50	32° 49' 39.563 N	103° 13' 13.967 W	
- plan misses target center by 0.2usft at 9427.4usft MD (9266.8 TVD, -1172.1 N, -693.7 E)										
- Point										

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,254.4	2,233.4	Rustler		-4.23	359.35
3,587.8	3,532.6	Base salts/top Artesia grp sands		-4.23	359.35
5,306.5	5,207.3	San Andres		-4.23	359.35
7,181.5	7,034.2	Glorieta		-4.23	359.35
8,643.4	8,489.8	Second Bone Spring Sand		-4.23	359.35
9,395.2	9,237.0	Third Bone Spring Carbonate		-4.23	359.35
9,690.7	9,474.4	Third Bone Spring Sand		-4.23	359.35

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Monika 1411 Com #133H
Company:	Matador Production Company	TVD Reference:	KB @ 3760.5usft
Project:	Twin Lakes	MD Reference:	KB @ 3760.5usft
Site:	Monika	North Reference:	Grid
Well:	Monika 1411 Com #133H	Survey Calculation Method:	Minimum Curvature
Wellbore:	State Plan #1		
Design:	Wellbore #1		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,000.0	1,000.0	0.0	0.0	Start Build 2.00	
1,650.0	1,644.4	-63.9	-36.2	Start 5484.4 hold at 1650.0 MD	
7,134.4	6,988.2	-1,137.0	-644.8	Start Drop -1.50	
8,001.0	7,847.5	-1,222.2	-693.1	Start 1185.1 hold at 8001.0 MD	
9,186.1	9,032.6	-1,222.2	-693.1	Start Build 10.00	
10,128.4	9,604.0	-607.0	-700.1	Start 9815.1 hold at 10128.4 MD	
19,943.5	8,880.0	9,180.7	-811.1	TD at 19943.5	