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 424119

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

1. Operator Name and Address	2. OGRID Number
MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	228937
	3. API Number 30-025-56943

4. Property Code	5. Property Name	6. Well No.
339534	Semmelbeck North State Com	131H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
F	28	17S	37E	F	2093	N	2301	W	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	9	17S	37E	D	110	N	660	W	Lea

9. Pool Information

HOBBS CHANNEL;BONE SPRING	31705

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3756
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	27872	Bone Spring		1/7/2027
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	2209	1506	0
Int1	12.25	9.625	40	5608	1273	0
Prod	8.75	5.5	20	27872	1523	5108

Casing/Cement Program: Additional Comments

Option to drill 20" hole. Option to drill surface hole with surface setting rig. Option to cement surface casing offline. Option to run DV tool and Packer. Option to cement intermediate casing offline. Option to run 7" casing to KOP if 8-3/4" hole is drilled. Option to drill 7-7/8" production hole. Option to run 6" casing if 7-7/8" hole is drilled. Option to run full string of 5.5" production casing

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:

OIL CONSERVATION DIVISION

Printed Name:	Electronically filed by Brett A Jennings	Approved By:	Jeffrey Harrison
Title:	Regulatory Analyst	Title:	Petroleum Specialist III
Email Address:	brett.jennings@matadorresources.com	Approved Date:	9/18/2026 Expiration Date: 9/18/2028
Date:	8/26/2026 Phone: 972-629-2160	Conditions of Approval Attached	

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-025-56943	31705	Hobbs Channel; Bone Spring

Property Code	Property Name	Well Number
339534	SEMMELBECK NORTH STATE COM	131H

OGRID No.	Operator Name	Ground Level Elevation
228937	MATADOR PRODUCTION COMPANY	3756'

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
F	28	17-S	37-E	-	2093' N	2301' W	N 32.8073065	W 103.2575850	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
D	9	17-S	37-E	-	110' N	660' W	N 32.8563814	W 103.2630169	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidated Code
560	DEFINING	PENDING	N	C

Order Numbers: Pending
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
E	28	17-S	37-E	-	2593' N	660' W	N 32.8059385	W 103.2629226	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
E	28	17-S	37-E	-	2543' N	660' W	N 32.8060759	W 103.2629228	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
D	9	17-S	37-E	-	110' N	660' W	N 32.8563814	W 103.2630169	LEA

Unitized Area or Area of Uniform Interest	Spacing Unity Type	Ground Floor Elevation
Pending	☒ Horizontal ☐ Vertical	3756'

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.

Signature: [signature] Date: 8/17/2024

Print Name: Addison Costley

E-mail Address: addison.costley@matadorresources.com

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.

ANGEL M. PEÑA NEW MEXICO 25116 8/12/26 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor Date

Certificate Number

Date of Survey: 05/07/2026

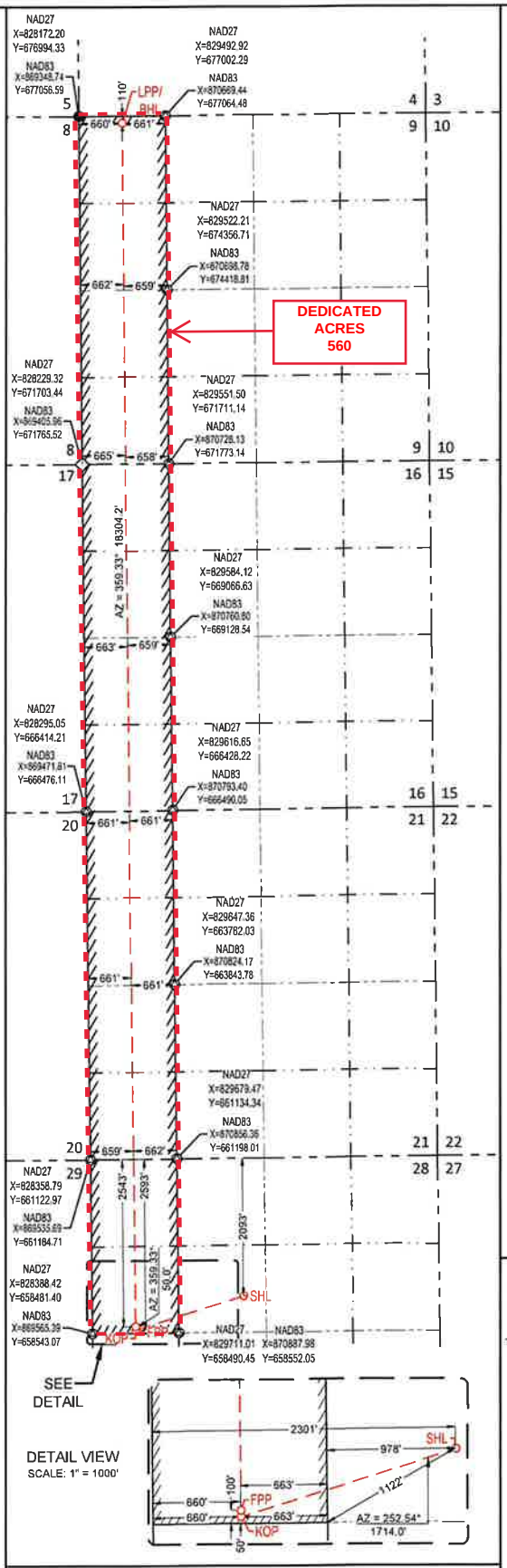
C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024 Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

Property Name and Well Number

SEMMELBECK NORTH STATE COM 131H

SURFACE LOCATION (SHL)
NEW MEXICO EAST
NAD 1983
X=871860 Y=659112
LAT.: N 32.8073065
LONG.: W 103.2575850
NAD 1927
X=830683 Y=659051
LAT.: N 32.8071944
LONG.: W 103.2570866
2093' FNL 2301' FWL

KICK OFF POINT (KOP)
NEW MEXICO EAST
NAD 1983
X=870225 Y=658598
LAT.: N 32.8059385
LONG.: W 103.2629226
NAD 1927
X=829048 Y=658537
LAT.: N 32.8058262
LONG.: W 103.2624242
2593' FNL 660' FWL



FIRST PERF. POINT (FPP)
NEW MEXICO EAST
NAD 1983
X=870224 Y=658648
LAT.: N 32.8060759
LONG.: W 103.2629228
NAD 1927
X=829047 Y=658587
LAT.: N 32.8059637
LONG.: W 103.2624245
2543' FNL 660' FWL

LAST PERF. POINT (LPP) BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST
NAD 1983
X=870010 Y=676951
LAT.: N 32.8563814
LONG.: W 103.2630169
NAD 1927
X=828834 Y=676889
LAT.: N 32.8562691
LONG.: W 103.2625169
110' FNL 660' FWL

SURVEYORS CERTIFICATION

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

05/07/2026
Date of Survey

Signature and Seal of Professional Surveyor:

ANGEL M. BAEZA NEW MEXICO 25116 PROFESSIONAL SURVEYOR 8/12/26

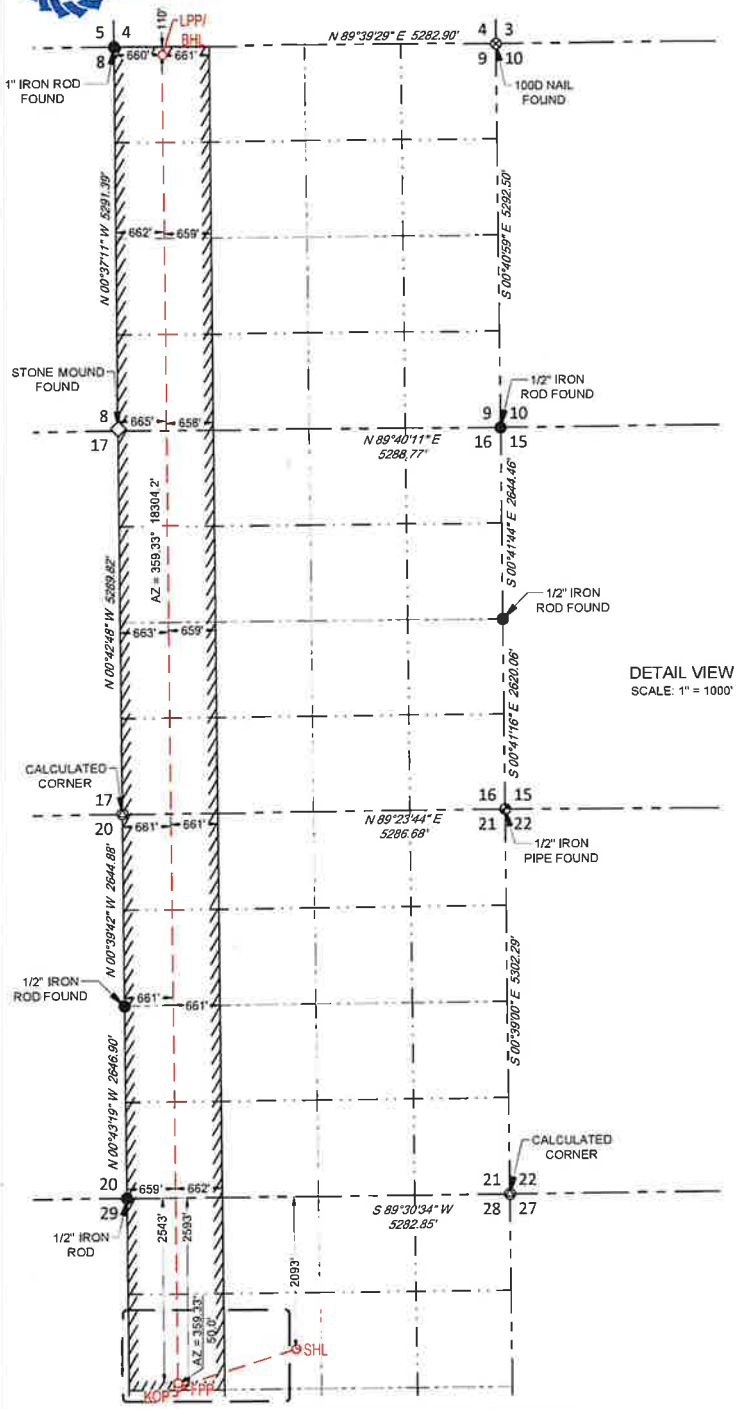
SECTION 28, TOWNSHIP 17-S, RANGE 37-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURFACE LOCATION (SHL)
NEW MEXICO EAST
NAD 1983
X=871860 Y=659112
LAT.: N 32.8073065
LONG.: W 103.2575850
2093' FNL 2301' FWL

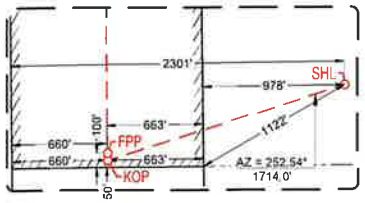
KICK OFF POINT (KOP)
NEW MEXICO EAST
NAD 1983
X=870225 Y=658598
LAT.: N 32.8059385
LONG.: W 103.2629226
2593' FNL 660' FWL

FIRST PERF. POINT (FPP)
NEW MEXICO EAST
NAD 1983
X=870224 Y=658648
LAT.: N 32.8060759
LONG.: W 103.2629228
2543' FNL 660' FWL

LAST PERF. POINT (LPP)
BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST
NAD 1983
X=870010 Y=676951
LAT.: N 32.8563814
LONG.: W 103.2630169
110' FNL 660' FWL



DETAIL VIEW
SCALE: 1" = 1000'





LEASE NAME & WELL NO.: SEMMELBECK NORTH STATE COM 131H

SECTION 28 TWP 17-S RGE 37-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 2093' FNL & 2301' FWL

DISTANCE & DIRECTION
FROM INT. OF NM-18 & W ALABAMA STREET, GO WEST ON W ALABAMA STREET ±1.7 MILES, THENCE NORTH (RIGHT) ON A PROPOSED RD. ±2335 FEET, THENCE WEST (LEFT) ON A PROPOSED RD. ±3060 FEET, THENCE NORTH (RIGHT) ON A PROPOSED RD. ±436 FEET TO A POINT TO A POINT ±410 FEET SOUTHEAST OF THE LOCATION.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

AS OF THE DATE OF SURVEY, ALL ABOVE GROUND APPURTENANCES WITHIN 300' OF THE STAKED LOCATION ARE SHOWN HEREON.



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

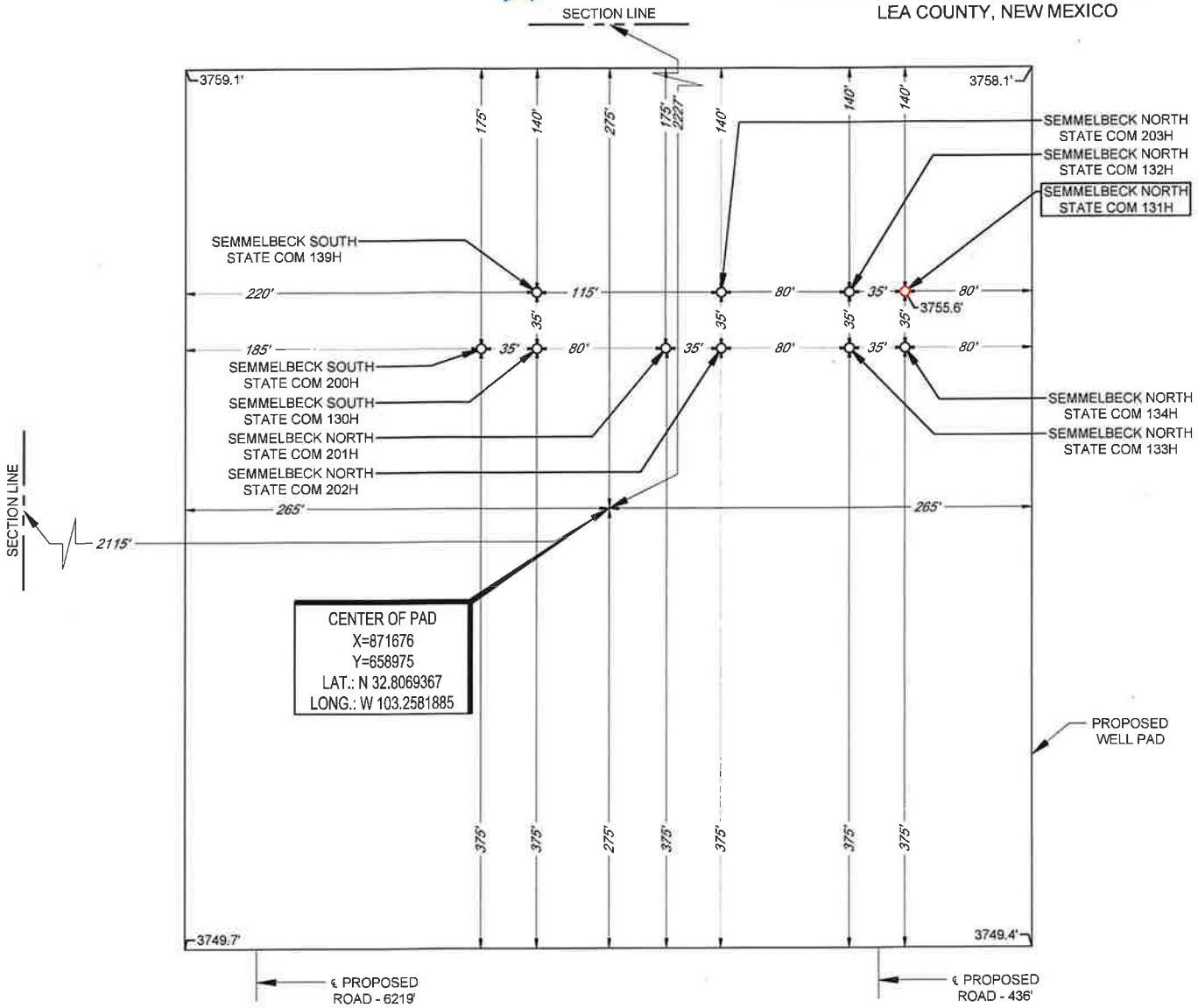
TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
806 WEST INDIANA • MIDLAND, TEXAS 79701
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

LEGEND

SECTION LINE
PROPOSED ROAD

Matador PRODUCTION COMPANY

SECTION 28, TOWNSHIP 17-S, RANGE 37-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



ANGEL M. BAEZA
NEW MEXICO
25116
8/12/26
PROFESSIONAL SURVEYOR

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

LEASE NAME & WELL NO.: SEMMELBECK NORTH STATE COM 131H

131H LATITUDE N 32.8073065 131H LONGITUDE W 103.2575850

CENTER OF PAD IS 2227' FNL & 2115' FWL

SCALE: 1" = 100'

0' 50' 100'

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"

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
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TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

S:\SURVEY\MATADOR_RESOURCES\SEMMELBECK_28-17S-37E\FINAL_PRODUCTS\LO_SEMMELBECK_NORTH_STATE_COM_131H_REV3.DWG 8/12/2026 4:29:45 PM nicole.childs

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 APD Conditions

Permit 424119

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	30-025-56943
	Well: Semmelbeck North State Com #131H

OCD Reviewer	Condition
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.
jeffrey.harrison	If a DV tool used, once the DV tool is opened and circulation is established, it needs to be noted if cement is circulated off of the top of the DV tool and how much.
jeffrey.harrison	If cement is not circulated off of the top of the DV tool, then a CBL will be required. Depending upon the results of the CBL, remedial action may be required prior to drilling operations continuing.
jeffrey.harrison	Surface casing shall be set a minimum of 25' into the Rustler Anhydrite, above the salt, and below usable fresh water and cemented to the surface. If salt is encountered set casing at least 25 ft. above the salt.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
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	Cement is required to circulate on both surface and intermediate1 strings of casing.
jeffrey.harrison	If the method of isolation was not by circulation, a CBL must be performed; if strata isolation is not achieved, then remediation will be required before further operations.

Addendum to Natural Gas Management Plan for Matador's

Semmelbeck North State Com 131H, 132H, 133H, 134H

VI. Separation Equipment

Flow from each well 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 for each well can be seen in the table below. 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
Semmelbeck North State Com 131H	1,000	850	2,200
Semmelbeck North State Com 132H	1,000	850	2,200
Semmelbeck North State Com 133H	1,000	850	2,200
Semmelbeck North State Com 134H	1,000	850	2,200

VII. Operation Practices

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

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

VII. Best Management Practices

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

- Isolating the affected component and reducing pressure through process piping

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: Matador Production Company **OGRID:** 228937 **Date:** 8/19/2026

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
Semmelbeck North State Com 131H	TBD	F 28-17S-37E	2093' FNL & 2301' FWL	1,000	850	2,200
Semmelbeck North State Com 132H	TBD	F 28-17S-37E	2093' FNL & 2266' FWL	1,000	850	2,200
Semmelbeck North State Com 133H	TBD	F 28-17S-37E	2127' FNL & 2266' FWL	1,000	850	2,200
Semmelbeck North State Com 134H	TBD	F 28-17S-37E	2128' FNL & 2300' FWL	1,000	850	2,200

IV. Central Delivery Point Name: Semmelbeck 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
Semmelbeck North State Com 131H	TBD	TBD	TBD	TBD	TBD	TBD
Semmelbeck North State Com 132H	TBD	TBD	TBD	TBD	TBD	TBD
Semmelbeck North State Com 133H	TBD	TBD	TBD	TBD	TBD	TBD
Semmelbeck North State Com 134H	TBD	TBD	TBD	TBD	TBD	TBD

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature:
Printed Name: Mark Gonzales
Title: Senior Facilities Engineer
E-mail Address: mark.gonzales@matadorresources.com
Date: 8/19/2026
Phone: 915-240-3468
OIL CONSERVATION DIVISION **(Only applicable when submitted as a standalone form)**
Approved By:
Title:
Approval Date:
Conditions of Approval:

Well Name: **Semmelbeck North State Com #131H**

STRING	FLUID TYPE	HOLE SZ	CSG SZ	CSG GRADE	CSG WT	DEPTH SET	TOP CSG	TTL SX CEMENT	EST TOC	ADDITIONAL INFO FOR CSG/CMT PROGRAM (Optional)
SURF	FRESH WTR	17.5	13.375	J-55	54.50	2209	0	1506	0	Option to drill 20" hole. Option to drill surface hole with surface setting rig. Option to cement surface casing offline
INT 1	Brine	12.25	9.625	J-55	40.00	5608	0	1273	0	Option to run DV tool and Packer. Option to cement intermediate casing offline
PROD	Cut Brine/OBM	8.75/6.75	7/5.5	P-110	29/20	27872	0	1523	5108	Option to run 7" casing to KOP if 8-3/4" hole is drilled. Option to drill 7-7/8" production hole. Option to run 6" casing if 7-7/8" hole is drilled. Option to run full string of 5.5" production casing

Matador Production Company

Twin Lakes
Semmelbeck
Semmelbeck North State Com #131H

Wellbore #1
State Plan #1

Anticollision Summary Report

22 August, 2026

Anticollision Summary Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Semmelbeck North State Com#131H
Project:	Twin Lakes	**TVD Reference:**	KB @ 3784.5usft
Reference Site:	Semmelbeck	**MD Reference:**	KB @ 3784.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Semmelbeck North State Com #131H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	State Plan #1	**Offset TVD Reference:**	Offset Datum

Reference State Plan #1

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0 us	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 8/22/2026

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	27,871.7	State Plan #1 (Wellbore #1)	MWD	OWSG MWD - Standard

Summary

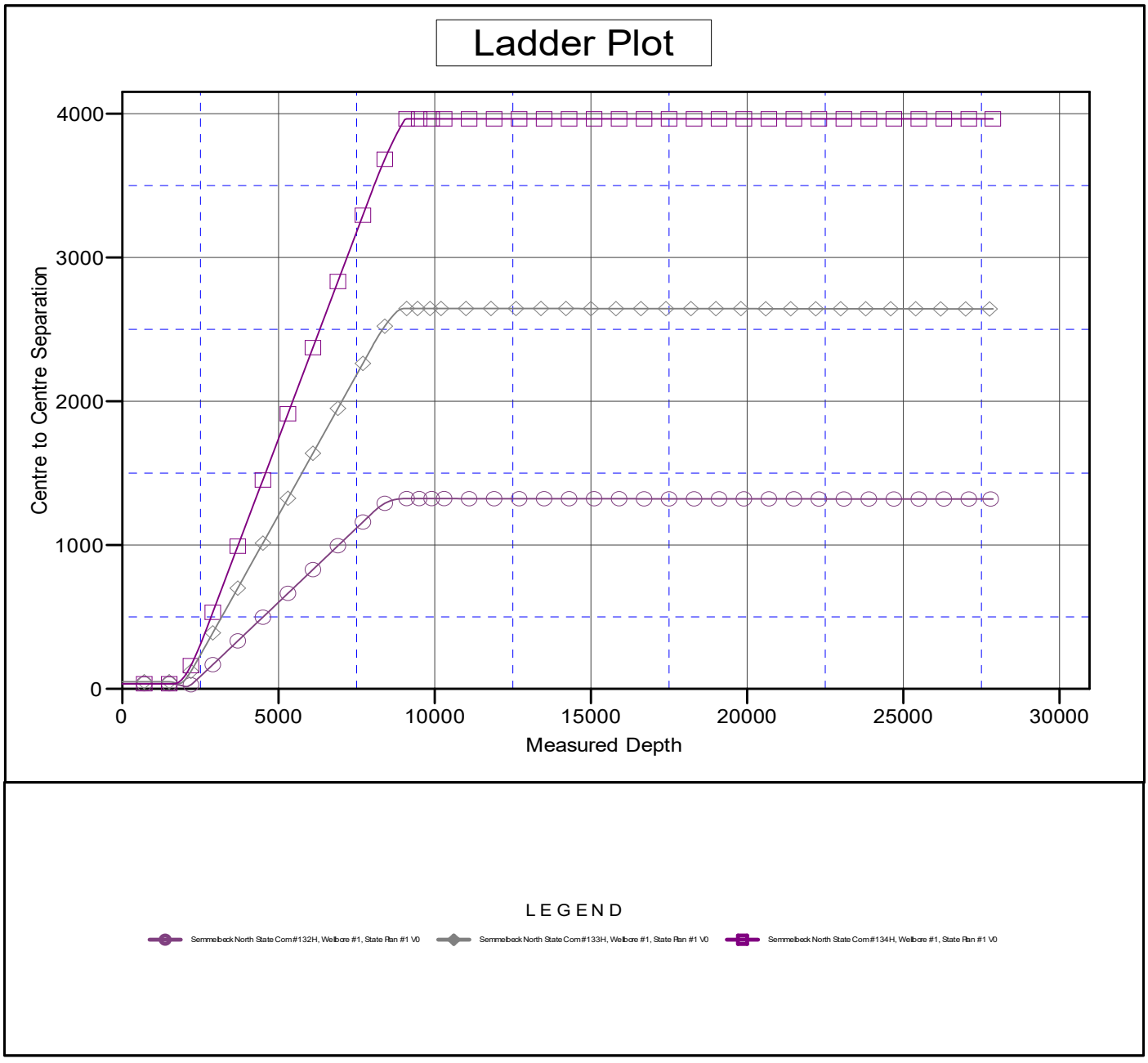
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Semmelbeck						
Semmelbeck North State Com #132H - Wellbore #1 - Sta	2,053.5	2,050.2	15.3	1.3	1.091	Level 2, CC, ES, SF
Semmelbeck North State Com #133H - Wellbore #1 - Sta	1,818.4	1,815.9	36.9	24.4	2.961	CC, ES, SF
Semmelbeck North State Com #134H - Wellbore #1 - Sta	1,578.1	1,576.9	35.0	24.2	3.236	CC
Semmelbeck North State Com #134H - Wellbore #1 - Sta	1,600.0	1,598.7	35.1	24.1	3.193	ES
Semmelbeck North State Com #134H - Wellbore #1 - Sta	1,700.0	1,697.6	36.9	25.2	3.162	SF

Anticollision Summary Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Semmelbeck North State Com#131H
Project:	Twin Lakes	**TVD Reference:**	KB @ 3784.5usft
Reference Site:	Semmelbeck	**MD Reference:**	KB @ 3784.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Semmelbeck North State Com #131H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	State Plan #1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to KB @ 3784.5usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Semmelbeck North State Com #131H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.58°

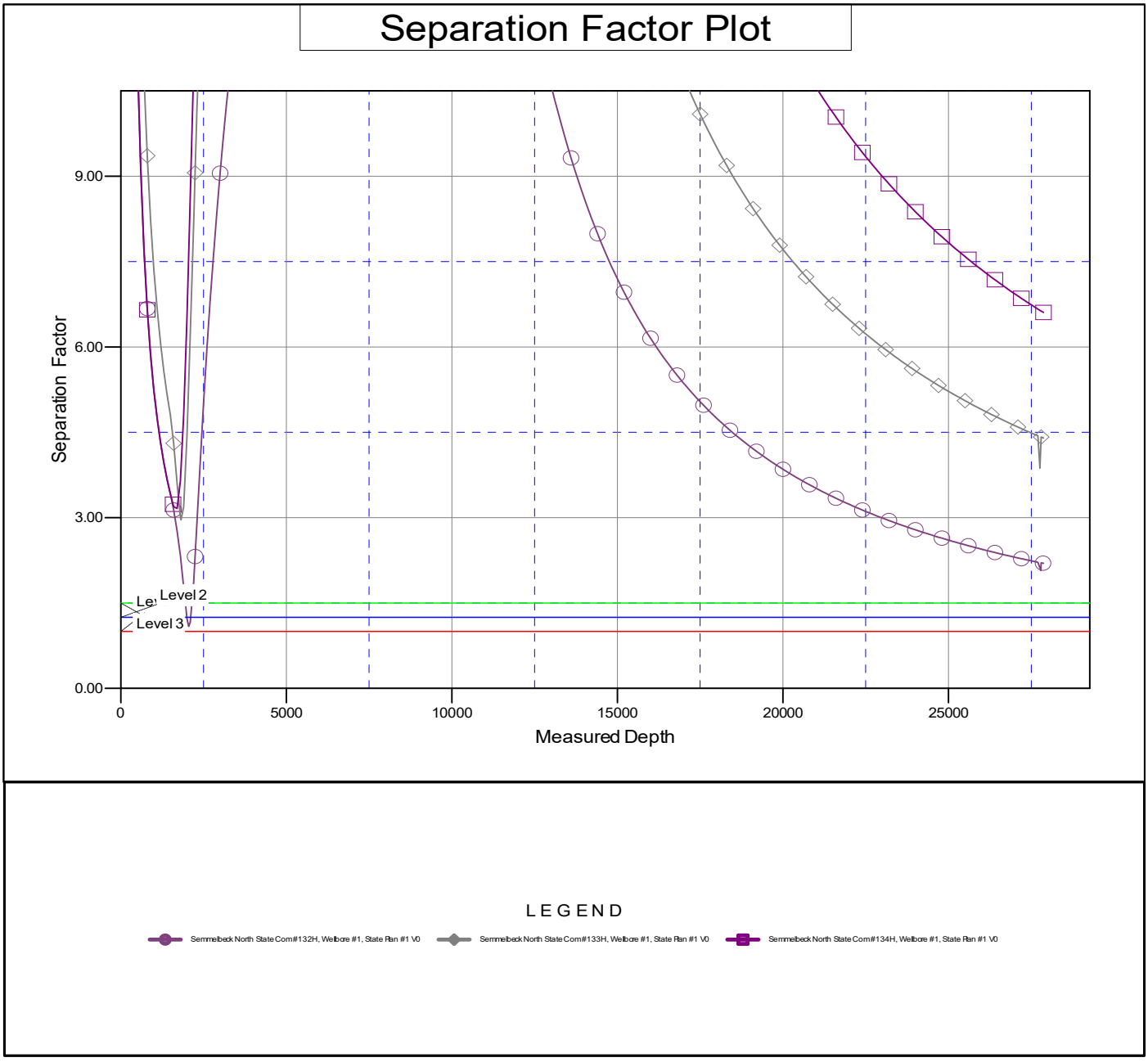


Anticollision Summary Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Semmelbeck North State Com#131H
Project:	Twin Lakes	**TVD Reference:**	KB @ 3784.5usft
Reference Site:	Semmelbeck	**MD Reference:**	KB @ 3784.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Semmelbeck North State Com #131H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Single User Db
Reference Design:	State Plan #1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to KB @ 3784.5usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Semmelbeck North State Com #131H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.58°



Matador Production Company

Twin Lakes
Semmelbeck
Semmelbeck North State Com #131H

Wellbore #1

Plan: State Plan #1

Standard Planning Report

22 August, 2026

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Semmelbeck North State Com#131H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3784.5usft
Project:	Twin Lakes	**MD Reference:**	KB @ 3784.5usft
Site:	Semmelbeck	**North Reference:**	Grid
Well:	Semmelbeck North State Com #131H	**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 Semmelbeck

Site Position:		**Northing:**	659,015.08 usft	**Latitude:**	32° 48' 25.557 N
From:	Lat/Long	**Easting:**	830,533.25 usft	**Longitude:**	103° 15' 27.271 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.58 °

Well Semmelbeck North State Com #131H

Well Position	**+N/-S**	36.2 usft	**Northing:**	659,051.24 usft	**Latitude:**	32° 48' 25.900 N
	+E/-W	149.8 usft	**Easting:**	830,683.09 usft	**Longitude:**	103° 15' 25.512 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,756.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.65	60.84	49,176.41436507

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	359.33

Plan Survey Tool Program **Date** 8/22/2026

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	27,871.7	State Plan #1 (Wellbore #1)	MWD	
				OWSG MWD - Standard	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,243.7	14.87	252.54	2,235.4	-28.8	-91.6	2.00	2.00	0.00	252.54	
8,049.3	14.87	252.54	7,846.5	-475.9	-1,513.2	0.00	0.00	0.00	0.00	
9,041.0	0.00	0.00	8,827.0	-514.3	-1,635.3	1.50	-1.50	0.00	180.00	
9,191.0	0.00	0.00	8,977.0	-514.3	-1,635.3	0.00	0.00	0.00	0.00	KOP - Semmelbeck
10,091.0	90.00	359.33	9,550.0	58.6	-1,642.0	10.00	10.00	0.00	359.33	
10,137.1	90.00	359.33	9,550.0	104.8	-1,642.6	0.00	0.00	0.00	0.00	
27,871.7	90.00	359.33	9,550.0	17,838.1	-1,849.1	0.00	0.00	0.00	0.00	BHL - Semmelbeck

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Semmelbeck North State Com#131H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3784.5usft
Project:	Twin Lakes	**MD Reference:**	KB @ 3784.5usft
Site:	Semmelbeck	**North Reference:**	Grid
Well:	Semmelbeck North State Com #131H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
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
Start Build 2.00									
1,600.0	2.00	252.54	1,600.0	-0.5	-1.7	-0.5	2.00	2.00	0.00
1,700.0	4.00	252.54	1,699.8	-2.1	-6.7	-2.0	2.00	2.00	0.00
1,800.0	6.00	252.54	1,799.5	-4.7	-15.0	-4.5	2.00	2.00	0.00
1,900.0	8.00	252.54	1,898.7	-8.4	-26.6	-8.1	2.00	2.00	0.00
2,000.0	10.00	252.54	1,997.5	-13.1	-41.5	-12.6	2.00	2.00	0.00
2,100.0	12.00	252.54	2,095.6	-18.8	-59.7	-18.1	2.00	2.00	0.00
2,144.0	12.88	252.54	2,138.6	-21.6	-68.8	-20.8	2.00	2.00	0.00
Rustler									
2,200.0	14.00	252.54	2,193.1	-25.5	-81.2	-24.6	2.00	2.00	0.00
2,243.7	14.87	252.54	2,235.4	-28.8	-91.6	-27.7	2.00	2.00	0.00
Start 5805.6 hold at 2243.7 MD									
2,300.0	14.87	252.54	2,289.8	-33.1	-105.4	-31.9	0.00	0.00	0.00
2,400.0	14.87	252.54	2,386.4	-40.8	-129.8	-39.3	0.00	0.00	0.00
2,500.0	14.87	252.54	2,483.1	-48.5	-154.3	-46.7	0.00	0.00	0.00
2,600.0	14.87	252.54	2,579.7	-56.2	-178.8	-54.1	0.00	0.00	0.00
2,700.0	14.87	252.54	2,676.4	-63.9	-203.3	-61.6	0.00	0.00	0.00
2,800.0	14.87	252.54	2,773.0	-71.6	-227.8	-69.0	0.00	0.00	0.00
2,900.0	14.87	252.54	2,869.7	-79.3	-252.3	-76.4	0.00	0.00	0.00
3,000.0	14.87	252.54	2,966.3	-87.0	-276.8	-83.8	0.00	0.00	0.00
3,100.0	14.87	252.54	3,063.0	-94.7	-301.3	-91.2	0.00	0.00	0.00
3,200.0	14.87	252.54	3,159.6	-102.4	-325.7	-98.6	0.00	0.00	0.00
3,265.3	14.87	252.54	3,222.7	-107.5	-341.7	-103.5	0.00	0.00	0.00
Base salts/top Artesia grp sands									
3,300.0	14.87	252.54	3,256.3	-110.1	-350.2	-106.0	0.00	0.00	0.00
3,400.0	14.87	252.54	3,352.9	-117.8	-374.7	-113.5	0.00	0.00	0.00
3,500.0	14.87	252.54	3,449.6	-125.6	-399.2	-120.9	0.00	0.00	0.00
3,600.0	14.87	252.54	3,546.2	-133.3	-423.7	-128.3	0.00	0.00	0.00
3,700.0	14.87	252.54	3,642.9	-141.0	-448.2	-135.7	0.00	0.00	0.00
3,800.0	14.87	252.54	3,739.5	-148.7	-472.7	-143.1	0.00	0.00	0.00
3,900.0	14.87	252.54	3,836.2	-156.4	-497.2	-150.5	0.00	0.00	0.00
4,000.0	14.87	252.54	3,932.8	-164.1	-521.6	-157.9	0.00	0.00	0.00
4,100.0	14.87	252.54	4,029.5	-171.8	-546.1	-165.4	0.00	0.00	0.00
4,200.0	14.87	252.54	4,126.1	-179.5	-570.6	-172.8	0.00	0.00	0.00
4,300.0	14.87	252.54	4,222.8	-187.2	-595.1	-180.2	0.00	0.00	0.00
4,400.0	14.87	252.54	4,319.4	-194.9	-619.6	-187.6	0.00	0.00	0.00
4,500.0	14.87	252.54	4,416.1	-202.6	-644.1	-195.0	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Semmelbeck North State Com#131H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3784.5usft
Project:	Twin Lakes	**MD Reference:**	KB @ 3784.5usft
Site:	Semmelbeck	**North Reference:**	Grid
Well:	Semmelbeck North State Com #131H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,600.0	14.87	252.54	4,512.7	-210.3	-668.6	-202.4	0.00	0.00	0.00
4,700.0	14.87	252.54	4,609.4	-218.0	-693.1	-209.8	0.00	0.00	0.00
4,800.0	14.87	252.54	4,706.0	-225.7	-717.5	-217.3	0.00	0.00	0.00
4,900.0	14.87	252.54	4,802.7	-233.4	-742.0	-224.7	0.00	0.00	0.00
5,000.0	14.87	252.54	4,899.3	-241.1	-766.5	-232.1	0.00	0.00	0.00
5,100.0	14.87	252.54	4,996.0	-248.8	-791.0	-239.5	0.00	0.00	0.00
5,200.0	14.87	252.54	5,092.6	-256.5	-815.5	-246.9	0.00	0.00	0.00
5,300.0	14.87	252.54	5,189.3	-264.2	-840.0	-254.3	0.00	0.00	0.00
5,400.0	14.87	252.54	5,285.9	-271.9	-864.5	-261.7	0.00	0.00	0.00
5,500.0	14.87	252.54	5,382.6	-279.6	-889.0	-269.2	0.00	0.00	0.00
5,600.0	14.87	252.54	5,479.2	-287.3	-913.4	-276.6	0.00	0.00	0.00
5,682.0	14.87	252.54	5,558.5	-293.6	-933.5	-282.7	0.00	0.00	0.00
San Andres									
5,700.0	14.87	252.54	5,575.9	-295.0	-937.9	-284.0	0.00	0.00	0.00
5,800.0	14.87	252.54	5,672.5	-302.7	-962.4	-291.4	0.00	0.00	0.00
5,900.0	14.87	252.54	5,769.2	-310.4	-986.9	-298.8	0.00	0.00	0.00
6,000.0	14.87	252.54	5,865.8	-318.1	-1,011.4	-306.2	0.00	0.00	0.00
6,100.0	14.87	252.54	5,962.5	-325.8	-1,035.9	-313.7	0.00	0.00	0.00
6,200.0	14.87	252.54	6,059.1	-333.5	-1,060.4	-321.1	0.00	0.00	0.00
6,300.0	14.87	252.54	6,155.8	-341.2	-1,084.9	-328.5	0.00	0.00	0.00
6,400.0	14.87	252.54	6,252.4	-348.9	-1,109.3	-335.9	0.00	0.00	0.00
6,500.0	14.87	252.54	6,349.0	-356.6	-1,133.8	-343.3	0.00	0.00	0.00
6,600.0	14.87	252.54	6,445.7	-364.3	-1,158.3	-350.7	0.00	0.00	0.00
6,700.0	14.87	252.54	6,542.3	-372.0	-1,182.8	-358.1	0.00	0.00	0.00
6,800.0	14.87	252.54	6,639.0	-379.7	-1,207.3	-365.6	0.00	0.00	0.00
6,900.0	14.87	252.54	6,735.6	-387.4	-1,231.8	-373.0	0.00	0.00	0.00
7,000.0	14.87	252.54	6,832.3	-395.1	-1,256.3	-380.4	0.00	0.00	0.00
7,100.0	14.87	252.54	6,928.9	-402.8	-1,280.8	-387.8	0.00	0.00	0.00
7,200.0	14.87	252.54	7,025.6	-410.5	-1,305.2	-395.2	0.00	0.00	0.00
7,300.0	14.87	252.54	7,122.2	-418.2	-1,329.7	-402.6	0.00	0.00	0.00
7,400.0	14.87	252.54	7,218.9	-425.9	-1,354.2	-410.0	0.00	0.00	0.00
7,439.3	14.87	252.54	7,256.9	-428.9	-1,363.9	-413.0	0.00	0.00	0.00
Glorieta									
7,500.0	14.87	252.54	7,315.5	-433.6	-1,378.7	-417.5	0.00	0.00	0.00
7,600.0	14.87	252.54	7,412.2	-441.3	-1,403.2	-424.9	0.00	0.00	0.00
7,700.0	14.87	252.54	7,508.8	-449.0	-1,427.7	-432.3	0.00	0.00	0.00
7,800.0	14.87	252.54	7,605.5	-456.7	-1,452.2	-439.7	0.00	0.00	0.00
7,900.0	14.87	252.54	7,702.1	-464.4	-1,476.7	-447.1	0.00	0.00	0.00
8,000.0	14.87	252.54	7,798.8	-472.1	-1,501.2	-454.5	0.00	0.00	0.00
8,049.3	14.87	252.54	7,846.5	-475.9	-1,513.2	-458.2	0.00	0.00	0.00
Start Drop -1.50									
8,100.0	14.11	252.54	7,895.5	-479.7	-1,525.3	-461.8	1.50	-1.50	0.00
8,200.0	12.61	252.54	7,992.8	-486.6	-1,547.4	-468.5	1.50	-1.50	0.00
8,300.0	11.11	252.54	8,090.7	-492.8	-1,567.0	-474.5	1.50	-1.50	0.00
8,400.0	9.61	252.54	8,189.0	-498.2	-1,584.2	-479.7	1.50	-1.50	0.00
8,500.0	8.11	252.54	8,287.8	-502.8	-1,598.9	-484.1	1.50	-1.50	0.00
8,600.0	6.61	252.54	8,387.0	-506.7	-1,611.1	-487.8	1.50	-1.50	0.00
8,650.0	5.87	252.54	8,436.7	-508.3	-1,616.3	-489.4	1.50	-1.50	0.00
Second Bone Spring Sand									
8,700.0	5.11	252.54	8,486.5	-509.7	-1,620.8	-490.8	1.50	-1.50	0.00
8,800.0	3.61	252.54	8,586.2	-512.0	-1,628.1	-493.0	1.50	-1.50	0.00
8,900.0	2.11	252.54	8,686.1	-513.5	-1,632.9	-494.4	1.50	-1.50	0.00
9,000.0	0.61	252.54	8,786.0	-514.2	-1,635.1	-495.1	1.50	-1.50	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Semmelbeck North State Com#131H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3784.5usft
Project:	Twin Lakes	**MD Reference:**	KB @ 3784.5usft
Site:	Semmelbeck	**North Reference:**	Grid
Well:	Semmelbeck North State Com #131H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,041.0	0.00	0.00	8,827.0	-514.3	-1,635.3	-495.2	1.50	-1.50	0.00
Start 150.0 hold at 9041.0 MD									
9,100.0	0.00	0.00	8,886.0	-514.3	-1,635.3	-495.2	0.00	0.00	0.00
9,191.0	0.00	0.00	8,977.0	-514.3	-1,635.3	-495.2	0.00	0.00	0.00
Start Build 10.00 - KOP - Semmelbeck North State Com #131H									
9,200.0	0.90	359.33	8,986.0	-514.2	-1,635.3	-495.1	10.00	10.00	0.00
9,300.0	10.90	359.33	9,085.4	-504.0	-1,635.5	-484.8	10.00	10.00	0.00
9,400.0	20.90	359.33	9,181.4	-476.6	-1,635.8	-457.4	10.00	10.00	0.00
9,432.9	24.19	359.33	9,211.8	-464.0	-1,635.9	-444.9	10.00	10.00	0.00
FPP - Semmelbeck North State Com #131H									
9,500.0	30.90	359.33	9,271.3	-433.0	-1,636.3	-413.8	10.00	10.00	0.00
9,531.4	34.04	359.33	9,297.7	-416.1	-1,636.5	-397.0	10.00	10.00	0.00
Third Bone Spring Carbonate									
9,600.0	40.90	359.33	9,352.2	-374.4	-1,637.0	-355.2	10.00	10.00	0.00
9,700.0	50.90	359.33	9,421.7	-302.7	-1,637.8	-283.5	10.00	10.00	0.00
9,800.0	60.90	359.33	9,477.6	-220.0	-1,638.8	-200.8	10.00	10.00	0.00
9,900.0	70.90	359.33	9,518.4	-128.8	-1,639.8	-109.6	10.00	10.00	0.00
10,000.0	80.90	359.33	9,542.8	-32.0	-1,641.0	-12.8	10.00	10.00	0.00
10,091.0	90.00	359.33	9,550.0	58.6	-1,642.0	77.8	10.00	10.00	0.00
Start 46.2 hold at 10091.0 MD									
10,100.0	90.00	359.33	9,550.0	67.6	-1,642.1	86.8	0.00	0.00	0.00
10,137.1	90.00	359.33	9,550.0	104.8	-1,642.6	124.0	0.00	0.00	0.00
Start 17734.5 hold at 10137.1 MD									
10,200.0	90.00	359.33	9,550.0	167.6	-1,643.3	186.8	0.00	0.00	0.00
10,300.0	90.00	359.33	9,550.0	267.6	-1,644.5	286.8	0.00	0.00	0.00
10,400.0	90.00	359.33	9,550.0	367.6	-1,645.6	386.8	0.00	0.00	0.00
10,500.0	90.00	359.33	9,550.0	467.6	-1,646.8	486.8	0.00	0.00	0.00
10,600.0	90.00	359.33	9,550.0	567.6	-1,648.0	586.8	0.00	0.00	0.00
10,700.0	90.00	359.33	9,550.0	667.6	-1,649.2	686.8	0.00	0.00	0.00
10,800.0	90.00	359.33	9,550.0	767.6	-1,650.3	786.8	0.00	0.00	0.00
10,900.0	90.00	359.33	9,550.0	867.6	-1,651.5	886.8	0.00	0.00	0.00
11,000.0	90.00	359.33	9,550.0	967.6	-1,652.7	986.8	0.00	0.00	0.00
11,100.0	90.00	359.33	9,550.0	1,067.6	-1,653.8	1,086.8	0.00	0.00	0.00
11,200.0	90.00	359.33	9,550.0	1,167.6	-1,655.0	1,186.8	0.00	0.00	0.00
11,300.0	90.00	359.33	9,550.0	1,267.6	-1,656.2	1,286.8	0.00	0.00	0.00
11,400.0	90.00	359.33	9,550.0	1,367.5	-1,657.3	1,386.8	0.00	0.00	0.00
11,500.0	90.00	359.33	9,550.0	1,467.5	-1,658.5	1,486.8	0.00	0.00	0.00
11,600.0	90.00	359.33	9,550.0	1,567.5	-1,659.7	1,586.8	0.00	0.00	0.00
11,700.0	90.00	359.33	9,550.0	1,667.5	-1,660.8	1,686.8	0.00	0.00	0.00
11,800.0	90.00	359.33	9,550.0	1,767.5	-1,662.0	1,786.8	0.00	0.00	0.00
11,900.0	90.00	359.33	9,550.0	1,867.5	-1,663.2	1,886.8	0.00	0.00	0.00
12,000.0	90.00	359.33	9,550.0	1,967.5	-1,664.4	1,986.8	0.00	0.00	0.00
12,100.0	90.00	359.33	9,550.0	2,067.5	-1,665.5	2,086.8	0.00	0.00	0.00
12,200.0	90.00	359.33	9,550.0	2,167.5	-1,666.7	2,186.8	0.00	0.00	0.00
12,300.0	90.00	359.33	9,550.0	2,267.5	-1,667.9	2,286.8	0.00	0.00	0.00
12,400.0	90.00	359.33	9,550.0	2,367.5	-1,669.0	2,386.8	0.00	0.00	0.00
12,500.0	90.00	359.33	9,550.0	2,467.5	-1,670.2	2,486.8	0.00	0.00	0.00
12,600.0	90.00	359.33	9,550.0	2,567.5	-1,671.4	2,586.8	0.00	0.00	0.00
12,700.0	90.00	359.33	9,550.0	2,667.5	-1,672.5	2,686.8	0.00	0.00	0.00
12,800.0	90.00	359.33	9,550.0	2,767.5	-1,673.7	2,786.8	0.00	0.00	0.00
12,900.0	90.00	359.33	9,550.0	2,867.4	-1,674.9	2,886.8	0.00	0.00	0.00
13,000.0	90.00	359.33	9,550.0	2,967.4	-1,676.0	2,986.8	0.00	0.00	0.00
13,100.0	90.00	359.33	9,550.0	3,067.4	-1,677.2	3,086.8	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Semmelbeck North State Com#131H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3784.5usft
Project:	Twin Lakes	**MD Reference:**	KB @ 3784.5usft
Site:	Semmelbeck	**North Reference:**	Grid
Well:	Semmelbeck North State Com #131H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,200.0	90.00	359.33	9,550.0	3,167.4	-1,678.4	3,186.8	0.00	0.00	0.00
13,300.0	90.00	359.33	9,550.0	3,267.4	-1,679.6	3,286.8	0.00	0.00	0.00
13,400.0	90.00	359.33	9,550.0	3,367.4	-1,680.7	3,386.8	0.00	0.00	0.00
13,500.0	90.00	359.33	9,550.0	3,467.4	-1,681.9	3,486.8	0.00	0.00	0.00
13,600.0	90.00	359.33	9,550.0	3,567.4	-1,683.1	3,586.8	0.00	0.00	0.00
13,700.0	90.00	359.33	9,550.0	3,667.4	-1,684.2	3,686.8	0.00	0.00	0.00
13,800.0	90.00	359.33	9,550.0	3,767.4	-1,685.4	3,786.8	0.00	0.00	0.00
13,900.0	90.00	359.33	9,550.0	3,867.4	-1,686.6	3,886.8	0.00	0.00	0.00
14,000.0	90.00	359.33	9,550.0	3,967.4	-1,687.7	3,986.8	0.00	0.00	0.00
14,100.0	90.00	359.33	9,550.0	4,067.4	-1,688.9	4,086.8	0.00	0.00	0.00
14,200.0	90.00	359.33	9,550.0	4,167.4	-1,690.1	4,186.8	0.00	0.00	0.00
14,300.0	90.00	359.33	9,550.0	4,267.4	-1,691.2	4,286.8	0.00	0.00	0.00
14,400.0	90.00	359.33	9,550.0	4,367.3	-1,692.4	4,386.8	0.00	0.00	0.00
14,500.0	90.00	359.33	9,550.0	4,467.3	-1,693.6	4,486.8	0.00	0.00	0.00
14,600.0	90.00	359.33	9,550.0	4,567.3	-1,694.8	4,586.8	0.00	0.00	0.00
14,700.0	90.00	359.33	9,550.0	4,667.3	-1,695.9	4,686.8	0.00	0.00	0.00
14,800.0	90.00	359.33	9,550.0	4,767.3	-1,697.1	4,786.8	0.00	0.00	0.00
14,900.0	90.00	359.33	9,550.0	4,867.3	-1,698.3	4,886.8	0.00	0.00	0.00
15,000.0	90.00	359.33	9,550.0	4,967.3	-1,699.4	4,986.8	0.00	0.00	0.00
15,100.0	90.00	359.33	9,550.0	5,067.3	-1,700.6	5,086.8	0.00	0.00	0.00
15,200.0	90.00	359.33	9,550.0	5,167.3	-1,701.8	5,186.8	0.00	0.00	0.00
15,300.0	90.00	359.33	9,550.0	5,267.3	-1,702.9	5,286.8	0.00	0.00	0.00
15,400.0	90.00	359.33	9,550.0	5,367.3	-1,704.1	5,386.8	0.00	0.00	0.00
15,500.0	90.00	359.33	9,550.0	5,467.3	-1,705.3	5,486.8	0.00	0.00	0.00
15,600.0	90.00	359.33	9,550.0	5,567.3	-1,706.5	5,586.8	0.00	0.00	0.00
15,700.0	90.00	359.33	9,550.0	5,667.3	-1,707.6	5,686.8	0.00	0.00	0.00
15,800.0	90.00	359.33	9,550.0	5,767.2	-1,708.8	5,786.8	0.00	0.00	0.00
15,900.0	90.00	359.33	9,550.0	5,867.2	-1,710.0	5,886.8	0.00	0.00	0.00
16,000.0	90.00	359.33	9,550.0	5,967.2	-1,711.1	5,986.8	0.00	0.00	0.00
16,100.0	90.00	359.33	9,550.0	6,067.2	-1,712.3	6,086.8	0.00	0.00	0.00
16,200.0	90.00	359.33	9,550.0	6,167.2	-1,713.5	6,186.8	0.00	0.00	0.00
16,300.0	90.00	359.33	9,550.0	6,267.2	-1,714.6	6,286.8	0.00	0.00	0.00
16,400.0	90.00	359.33	9,550.0	6,367.2	-1,715.8	6,386.8	0.00	0.00	0.00
16,500.0	90.00	359.33	9,550.0	6,467.2	-1,717.0	6,486.8	0.00	0.00	0.00
16,600.0	90.00	359.33	9,550.0	6,567.2	-1,718.1	6,586.8	0.00	0.00	0.00
16,700.0	90.00	359.33	9,550.0	6,667.2	-1,719.3	6,686.8	0.00	0.00	0.00
16,800.0	90.00	359.33	9,550.0	6,767.2	-1,720.5	6,786.8	0.00	0.00	0.00
16,900.0	90.00	359.33	9,550.0	6,867.2	-1,721.7	6,886.8	0.00	0.00	0.00
17,000.0	90.00	359.33	9,550.0	6,967.2	-1,722.8	6,986.8	0.00	0.00	0.00
17,100.0	90.00	359.33	9,550.0	7,067.2	-1,724.0	7,086.8	0.00	0.00	0.00
17,200.0	90.00	359.33	9,550.0	7,167.2	-1,725.2	7,186.8	0.00	0.00	0.00
17,300.0	90.00	359.33	9,550.0	7,267.1	-1,726.3	7,286.8	0.00	0.00	0.00
17,400.0	90.00	359.33	9,550.0	7,367.1	-1,727.5	7,386.8	0.00	0.00	0.00
17,500.0	90.00	359.33	9,550.0	7,467.1	-1,728.7	7,486.8	0.00	0.00	0.00
17,600.0	90.00	359.33	9,550.0	7,567.1	-1,729.8	7,586.8	0.00	0.00	0.00
17,700.0	90.00	359.33	9,550.0	7,667.1	-1,731.0	7,686.8	0.00	0.00	0.00
17,800.0	90.00	359.33	9,550.0	7,767.1	-1,732.2	7,786.8	0.00	0.00	0.00
17,900.0	90.00	359.33	9,550.0	7,867.1	-1,733.3	7,886.8	0.00	0.00	0.00
18,000.0	90.00	359.33	9,550.0	7,967.1	-1,734.5	7,986.8	0.00	0.00	0.00
18,100.0	90.00	359.33	9,550.0	8,067.1	-1,735.7	8,086.8	0.00	0.00	0.00
18,200.0	90.00	359.33	9,550.0	8,167.1	-1,736.9	8,186.8	0.00	0.00	0.00
18,300.0	90.00	359.33	9,550.0	8,267.1	-1,738.0	8,286.8	0.00	0.00	0.00
18,400.0	90.00	359.33	9,550.0	8,367.1	-1,739.2	8,386.8	0.00	0.00	0.00
18,500.0	90.00	359.33	9,550.0	8,467.1	-1,740.4	8,486.8	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Semmelbeck North State Com#131H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3784.5usft
Project:	Twin Lakes	**MD Reference:**	KB @ 3784.5usft
Site:	Semmelbeck	**North Reference:**	Grid
Well:	Semmelbeck North State Com #131H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,600.0	90.00	359.33	9,550.0	8,567.1	-1,741.5	8,586.8	0.00	0.00	0.00
18,700.0	90.00	359.33	9,550.0	8,667.0	-1,742.7	8,686.8	0.00	0.00	0.00
18,800.0	90.00	359.33	9,550.0	8,767.0	-1,743.9	8,786.8	0.00	0.00	0.00
18,900.0	90.00	359.33	9,550.0	8,867.0	-1,745.0	8,886.8	0.00	0.00	0.00
19,000.0	90.00	359.33	9,550.0	8,967.0	-1,746.2	8,986.8	0.00	0.00	0.00
19,100.0	90.00	359.33	9,550.0	9,067.0	-1,747.4	9,086.8	0.00	0.00	0.00
19,200.0	90.00	359.33	9,550.0	9,167.0	-1,748.5	9,186.8	0.00	0.00	0.00
19,300.0	90.00	359.33	9,550.0	9,267.0	-1,749.7	9,286.8	0.00	0.00	0.00
19,400.0	90.00	359.33	9,550.0	9,367.0	-1,750.9	9,386.8	0.00	0.00	0.00
19,500.0	90.00	359.33	9,550.0	9,467.0	-1,752.1	9,486.8	0.00	0.00	0.00
19,600.0	90.00	359.33	9,550.0	9,567.0	-1,753.2	9,586.8	0.00	0.00	0.00
19,700.0	90.00	359.33	9,550.0	9,667.0	-1,754.4	9,686.8	0.00	0.00	0.00
19,800.0	90.00	359.33	9,550.0	9,767.0	-1,755.6	9,786.8	0.00	0.00	0.00
19,900.0	90.00	359.33	9,550.0	9,867.0	-1,756.7	9,886.8	0.00	0.00	0.00
20,000.0	90.00	359.33	9,550.0	9,967.0	-1,757.9	9,986.8	0.00	0.00	0.00
20,100.0	90.00	359.33	9,550.0	10,067.0	-1,759.1	10,086.8	0.00	0.00	0.00
20,200.0	90.00	359.33	9,550.0	10,166.9	-1,760.2	10,186.8	0.00	0.00	0.00
20,300.0	90.00	359.33	9,550.0	10,266.9	-1,761.4	10,286.8	0.00	0.00	0.00
20,400.0	90.00	359.33	9,550.0	10,366.9	-1,762.6	10,386.8	0.00	0.00	0.00
20,500.0	90.00	359.33	9,550.0	10,466.9	-1,763.7	10,486.8	0.00	0.00	0.00
20,600.0	90.00	359.33	9,550.0	10,566.9	-1,764.9	10,586.8	0.00	0.00	0.00
20,700.0	90.00	359.33	9,550.0	10,666.9	-1,766.1	10,686.8	0.00	0.00	0.00
20,800.0	90.00	359.33	9,550.0	10,766.9	-1,767.3	10,786.8	0.00	0.00	0.00
20,900.0	90.00	359.33	9,550.0	10,866.9	-1,768.4	10,886.8	0.00	0.00	0.00
21,000.0	90.00	359.33	9,550.0	10,966.9	-1,769.6	10,986.8	0.00	0.00	0.00
21,100.0	90.00	359.33	9,550.0	11,066.9	-1,770.8	11,086.8	0.00	0.00	0.00
21,200.0	90.00	359.33	9,550.0	11,166.9	-1,771.9	11,186.8	0.00	0.00	0.00
21,300.0	90.00	359.33	9,550.0	11,266.9	-1,773.1	11,286.8	0.00	0.00	0.00
21,400.0	90.00	359.33	9,550.0	11,366.9	-1,774.3	11,386.8	0.00	0.00	0.00
21,500.0	90.00	359.33	9,550.0	11,466.9	-1,775.4	11,486.8	0.00	0.00	0.00
21,600.0	90.00	359.33	9,550.0	11,566.9	-1,776.6	11,586.8	0.00	0.00	0.00
21,700.0	90.00	359.33	9,550.0	11,666.8	-1,777.8	11,686.8	0.00	0.00	0.00
21,800.0	90.00	359.33	9,550.0	11,766.8	-1,778.9	11,786.8	0.00	0.00	0.00
21,900.0	90.00	359.33	9,550.0	11,866.8	-1,780.1	11,886.8	0.00	0.00	0.00
22,000.0	90.00	359.33	9,550.0	11,966.8	-1,781.3	11,986.8	0.00	0.00	0.00
22,100.0	90.00	359.33	9,550.0	12,066.8	-1,782.5	12,086.8	0.00	0.00	0.00
22,200.0	90.00	359.33	9,550.0	12,166.8	-1,783.6	12,186.8	0.00	0.00	0.00
22,300.0	90.00	359.33	9,550.0	12,266.8	-1,784.8	12,286.8	0.00	0.00	0.00
22,400.0	90.00	359.33	9,550.0	12,366.8	-1,786.0	12,386.8	0.00	0.00	0.00
22,500.0	90.00	359.33	9,550.0	12,466.8	-1,787.1	12,486.8	0.00	0.00	0.00
22,600.0	90.00	359.33	9,550.0	12,566.8	-1,788.3	12,586.8	0.00	0.00	0.00
22,700.0	90.00	359.33	9,550.0	12,666.8	-1,789.5	12,686.8	0.00	0.00	0.00
22,800.0	90.00	359.33	9,550.0	12,766.8	-1,790.6	12,786.8	0.00	0.00	0.00
22,900.0	90.00	359.33	9,550.0	12,866.8	-1,791.8	12,886.8	0.00	0.00	0.00
23,000.0	90.00	359.33	9,550.0	12,966.8	-1,793.0	12,986.8	0.00	0.00	0.00
23,100.0	90.00	359.33	9,550.0	13,066.7	-1,794.2	13,086.8	0.00	0.00	0.00
23,200.0	90.00	359.33	9,550.0	13,166.7	-1,795.3	13,186.8	0.00	0.00	0.00
23,300.0	90.00	359.33	9,550.0	13,266.7	-1,796.5	13,286.8	0.00	0.00	0.00
23,400.0	90.00	359.33	9,550.0	13,366.7	-1,797.7	13,386.8	0.00	0.00	0.00
23,500.0	90.00	359.33	9,550.0	13,466.7	-1,798.8	13,486.8	0.00	0.00	0.00
23,600.0	90.00	359.33	9,550.0	13,566.7	-1,800.0	13,586.8	0.00	0.00	0.00
23,700.0	90.00	359.33	9,550.0	13,666.7	-1,801.2	13,686.8	0.00	0.00	0.00
23,800.0	90.00	359.33	9,550.0	13,766.7	-1,802.3	13,786.8	0.00	0.00	0.00
23,900.0	90.00	359.33	9,550.0	13,866.7	-1,803.5	13,886.8	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Semmelbeck North State Com#131H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3784.5usft
Project:	Twin Lakes	**MD Reference:**	KB @ 3784.5usft
Site:	Semmelbeck	**North Reference:**	Grid
Well:	Semmelbeck North State Com #131H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
24,000.0	90.00	359.33	9,550.0	13,966.7	-1,804.7	13,986.8	0.00	0.00	0.00
24,100.0	90.00	359.33	9,550.0	14,066.7	-1,805.8	14,086.8	0.00	0.00	0.00
24,200.0	90.00	359.33	9,550.0	14,166.7	-1,807.0	14,186.8	0.00	0.00	0.00
24,300.0	90.00	359.33	9,550.0	14,266.7	-1,808.2	14,286.8	0.00	0.00	0.00
24,400.0	90.00	359.33	9,550.0	14,366.7	-1,809.4	14,386.8	0.00	0.00	0.00
24,500.0	90.00	359.33	9,550.0	14,466.7	-1,810.5	14,486.8	0.00	0.00	0.00
24,600.0	90.00	359.33	9,550.0	14,566.6	-1,811.7	14,586.8	0.00	0.00	0.00
24,700.0	90.00	359.33	9,550.0	14,666.6	-1,812.9	14,686.8	0.00	0.00	0.00
24,800.0	90.00	359.33	9,550.0	14,766.6	-1,814.0	14,786.8	0.00	0.00	0.00
24,900.0	90.00	359.33	9,550.0	14,866.6	-1,815.2	14,886.8	0.00	0.00	0.00
25,000.0	90.00	359.33	9,550.0	14,966.6	-1,816.4	14,986.8	0.00	0.00	0.00
25,100.0	90.00	359.33	9,550.0	15,066.6	-1,817.5	15,086.8	0.00	0.00	0.00
25,200.0	90.00	359.33	9,550.0	15,166.6	-1,818.7	15,186.8	0.00	0.00	0.00
25,300.0	90.00	359.33	9,550.0	15,266.6	-1,819.9	15,286.8	0.00	0.00	0.00
25,400.0	90.00	359.33	9,550.0	15,366.6	-1,821.0	15,386.8	0.00	0.00	0.00
25,500.0	90.00	359.33	9,550.0	15,466.6	-1,822.2	15,486.8	0.00	0.00	0.00
25,600.0	90.00	359.33	9,550.0	15,566.6	-1,823.4	15,586.8	0.00	0.00	0.00
25,700.0	90.00	359.33	9,550.0	15,666.6	-1,824.6	15,686.8	0.00	0.00	0.00
25,800.0	90.00	359.33	9,550.0	15,766.6	-1,825.7	15,786.8	0.00	0.00	0.00
25,900.0	90.00	359.33	9,550.0	15,866.6	-1,826.9	15,886.8	0.00	0.00	0.00
26,000.0	90.00	359.33	9,550.0	15,966.6	-1,828.1	15,986.8	0.00	0.00	0.00
26,100.0	90.00	359.33	9,550.0	16,066.5	-1,829.2	16,086.8	0.00	0.00	0.00
26,200.0	90.00	359.33	9,550.0	16,166.5	-1,830.4	16,186.8	0.00	0.00	0.00
26,300.0	90.00	359.33	9,550.0	16,266.5	-1,831.6	16,286.8	0.00	0.00	0.00
26,400.0	90.00	359.33	9,550.0	16,366.5	-1,832.7	16,386.8	0.00	0.00	0.00
26,500.0	90.00	359.33	9,550.0	16,466.5	-1,833.9	16,486.8	0.00	0.00	0.00
26,600.0	90.00	359.33	9,550.0	16,566.5	-1,835.1	16,586.8	0.00	0.00	0.00
26,700.0	90.00	359.33	9,550.0	16,666.5	-1,836.2	16,686.8	0.00	0.00	0.00
26,800.0	90.00	359.33	9,550.0	16,766.5	-1,837.4	16,786.8	0.00	0.00	0.00
26,900.0	90.00	359.33	9,550.0	16,866.5	-1,838.6	16,886.8	0.00	0.00	0.00
27,000.0	90.00	359.33	9,550.0	16,966.5	-1,839.8	16,986.8	0.00	0.00	0.00
27,100.0	90.00	359.33	9,550.0	17,066.5	-1,840.9	17,086.8	0.00	0.00	0.00
27,200.0	90.00	359.33	9,550.0	17,166.5	-1,842.1	17,186.8	0.00	0.00	0.00
27,300.0	90.00	359.33	9,550.0	17,266.5	-1,843.3	17,286.8	0.00	0.00	0.00
27,400.0	90.00	359.33	9,550.0	17,366.5	-1,844.4	17,386.8	0.00	0.00	0.00
27,500.0	90.00	359.33	9,550.0	17,466.4	-1,845.6	17,486.8	0.00	0.00	0.00
27,600.0	90.00	359.33	9,550.0	17,566.4	-1,846.8	17,586.8	0.00	0.00	0.00
27,700.0	90.00	359.33	9,550.0	17,666.4	-1,847.9	17,686.8	0.00	0.00	0.00
27,800.0	90.00	359.33	9,550.0	17,766.4	-1,849.1	17,786.8	0.00	0.00	0.00
27,871.7	90.00	359.33	9,550.0	17,838.1	-1,849.1	17,858.5	0.00	0.00	0.00
TD at 27871.7 - BHL - Semmelbeck North State Com #131H									

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Semmelbeck North State Com#131H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3784.5usft
Project:	Twin Lakes	**MD Reference:**	KB @ 3784.5usft
Site:	Semmelbeck	**North Reference:**	Grid
Well:	Semmelbeck North State Com #131H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP - Semmelbeck N - plan hits target center - Point	0.00	0.01	8,977.0	-514.3	-1,635.3	658,537.00	829,048.00	32° 48' 20.976 N	103° 15' 44.728 W
FPP - Semmelbeck N - plan hits target center - Point	0.00	0.00	9,211.8	-464.0	-1,635.9	658,587.28	829,047.42	32° 48' 21.474 N	103° 15' 44.728 W
BHL - Semmelbeck N - plan hits target center - Point	0.00	0.00	9,550.0	17,838.1	-1,849.1	676,889.00	828,834.00	32° 51' 22.567 N	103° 15' 45.056 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,144.0	2,138.6	Rustler			
3,265.3	3,222.7	Base salts/top Artesia grp sands			
5,682.0	5,558.5	San Andres			
7,439.3	7,256.9	Glorieta			
8,650.0	8,436.7	Second Bone Spring Sand			
9,531.4	9,297.7	Third Bone Spring Carbonate			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,500.0	1,500.0	0.0	0.0	Start Build 2.00
2,243.7	2,235.4	-28.8	-91.6	Start 5805.6 hold at 2243.7 MD
8,049.3	7,846.5	-475.9	-1,513.2	Start Drop -1.50
9,041.0	8,827.0	-514.3	-1,635.3	Start 150.0 hold at 9041.0 MD
9,191.0	8,977.0	-514.3	-1,635.3	Start Build 10.00
10,091.0	9,550.0	58.6	-1,642.0	Start 46.2 hold at 10091.0 MD
10,137.1	9,550.0	104.8	-1,642.5	Start 17734.5 hold at 10137.1 MD
27,871.7				TD at 27871.7