

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 396391

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
4. Property Code 332756									3. API Number 30-025-55394
5. Property Name DEE OSBORNE 1930 STATE COM									6. Well No. 134H

7. Surface Location

UL - Lot B	Section 19	Township 21S	Range 35E	Lot Idn B	Feet From 349	N/S Line N	Feet From 1391	E/W Line E	County Lea
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8. Proposed Bottom Hole Location

UL - Lot P	Section 30	Township 21S	Range 35E	Lot Idn P	Feet From 110	N/S Line S	Feet From 660	E/W Line E	County Lea
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9. Pool Information

WILSON;BONE SPRING	64560
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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 3643
16. Multiple N	17. Proposed Depth 20938	18. Formation Bone Spring	19. Contractor	20. Spud Date 8/9/2026
Depth to Ground water		Distance from nearest fresh water well		

We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	20	13.375	54.5	1913	2021	0
Int1	12.25	9.625	40	5749	1635	0
Prod	6.75	5.5	20	20938	2145	5549

Casing/Cement Program: Additional Comments

Option to drill surface hole with surface setting rig Option to cement surface casing offline Option to run DV tool and Packer.

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 <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> , if applicable.	OIL CONSERVATION DIVISION	
Signature:		
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: 10/30/2025	Expiration Date: 10/30/2027
Date: 9/1/2025	Phone: 972-629-2160	Conditions of Approval Attached

C-102

Submit Electronically
Via OCD PermittingState of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

Revised July 9, 2024

Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal
	<input type="checkbox"/> Amended Report
	<input type="checkbox"/> As Drilled

WELL LOCATION INFORMATION

API Number 30-025-55394	Pool Code 64560	Pool Name Wilson, Bone Spring
Property Code 332756	Property Name DEE OSBORNE 1930 STATE COM	Well Number 134H
OGRID No. 228937	Operator Name MATADOR PRODUCTION COMPANY	Ground Level Elevation 3643.3'
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal

Surface Location

UL B	Section 19	Township 21-S	Range 35-E	Lot	Ft. from N/S 349 FNL	Ft. from E/W 1391 FEL	Latitude 32.470813°N	Longitude 103.402751°W	County LEA
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Bottom Hole Location

UL P	Section 30	Township 21-S	Range 35-E	Lot	Ft. from N/S 110 FSL	Ft. from E/W 660 FEL	Latitude 32.443048°N	Longitude 103.400392°W	County LEA
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Dedicated Acres 320	Infill or Defining Well Infill	Defining Well API 30-025-50103	Overlapping Spacing Unit (Y/N) N	Consolidation Code C
Order Numbers. R-22037		Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

Kick Off Point (KOP)

UL A	Section 19	Township 21-S	Range 35-E	Lot	Ft. from N/S 50 FNL	Ft. from E/W 660 FEL	Latitude 32.471633°N	Longitude 103.400380°W	County LEA
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First Take Point (FTP)

UL A	Section 19	Township 21-S	Range 35-E	Lot	Ft. from N/S 100 FNL	Ft. from E/W 660 FEL	Latitude 32.471495°N	Longitude 103.400380°W	County LEA
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Last Take Point (LTP)

UL P	Section 30	Township 21-S	Range 35-E	Lot	Ft. from N/S 110 FSL	Ft. from E/W 660 FEL	Latitude 32.443048°N	Longitude 103.400392°W	County LEA
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Unitized Area or Area of Uniform Interest R-22037	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 3643.3'
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OPERATOR CERTIFICATIONS

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.

Isaac C. Evans 8/13/2025

SURVEYOR CERTIFICATIONS

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.

Chad Harrow

7/28/25



Signature

Date

Signature and Seal of Professional Surveyor

Isaac C. Evans

Printed Name

isaac.evans@matadorresources.com

Email Address

Certificate Number

17777

Date of Survey

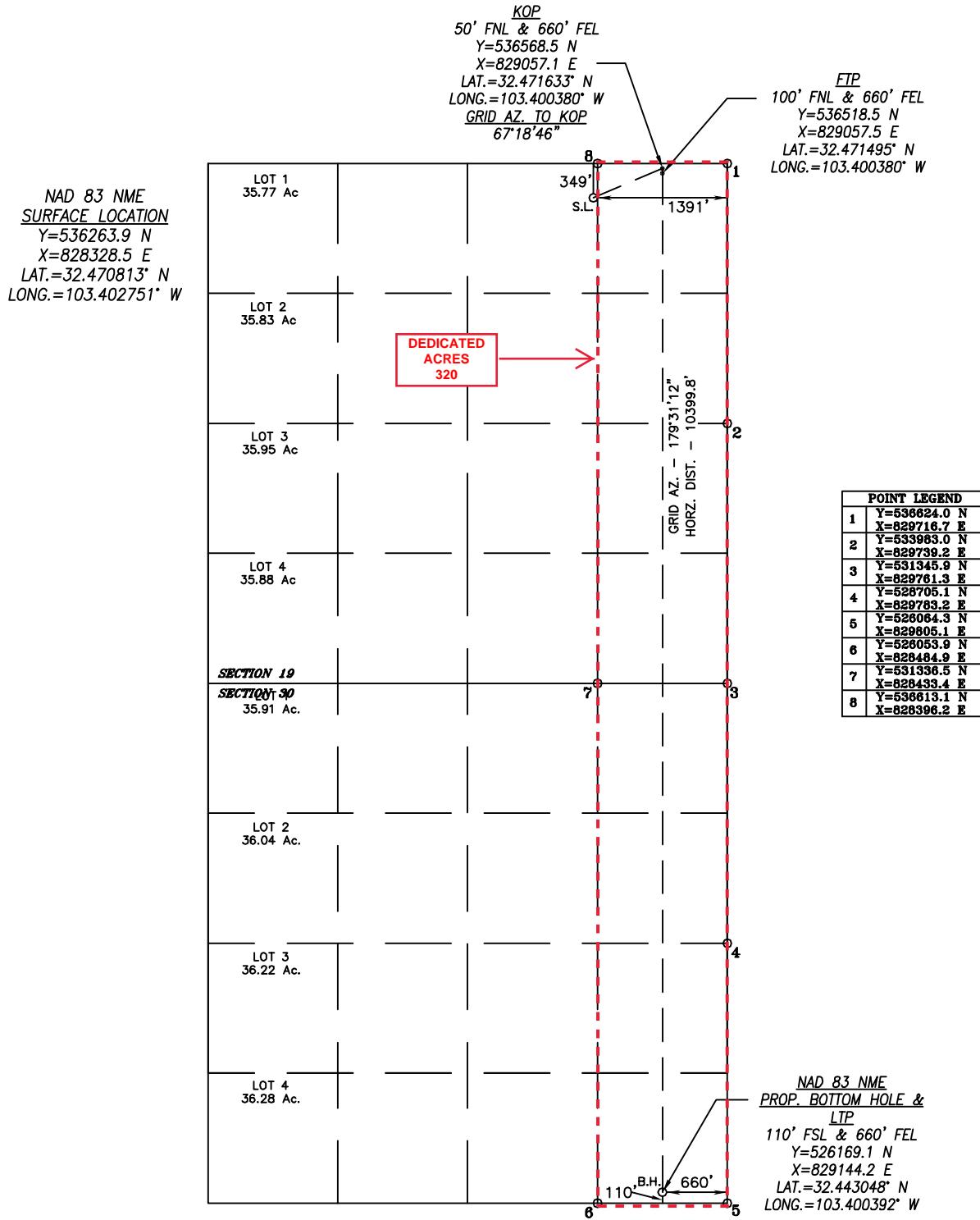
JUNE 26, 2025

W.O.#25-732 DRAWN BY: WN PAGE 1 OF 2

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



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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 396391

PERMIT COMMENTS

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	API Number: 30-025-55394
	Well: DEE OSBORNE 1930 STATE COM #134H

Created By	Comment	Comment Date
jeffrey.harrison	3 string design was updated to place intermediate 1 shoe at base of reef. Casing table on tab three was updated to reflect changes and revised casing plan table loaded to forms. Production hole will taper from 8.75" vertically with the curve and lateral being drilled at 6.75". The entire production string is proposed to consist of 5.5" P-110.	10/30/2025
jeffrey.harrison	Submitted as infill well to 30-025-50103	10/30/2025

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

Form APD Conditions

Permit 396391

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	API Number: 30-025-55394
	Well: DEE OSBORNE 1930 STATE COM #134H

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	The OCD is currently reviewing the areas containing the Capitan Reef Aquifer and may expand the designated 4-string casing area to encompass additional portions of it in the future.
jeffrey.harrison	This well is within the Capitan Reef aquifer zone. The first intermediate casing string shall be set and cemented back to surface immediately below the Capitan Reef.
jeffrey.harrison	In Capitan Reef areas if lost circulation (50% or greater) occurs below the base of the salt, the operator shall switch to freshwater mud until the intermediate casing is set.
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	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
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	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.

Addendum to Natural Gas Management Plan for Matador's

Dee Osborne 1930 State Com 104H, 111H, 112H, 113H, 114H, 131H, 132H, 133H, 134H

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
Dee Osborne 1930 State Com 104H	900	1200	1600
Dee Osborne 1930 State Com 111H	900	1200	1600
Dee Osborne 1930 State Com 112H	900	1200	1600
Dee Osborne 1930 State Com 113H	900	1200	1600
Dee Osborne 1930 State Com 114H	900	1200	1600
Dee Osborne 1930 State Com 131H	900	1200	1600
Dee Osborne 1930 State Com 132H	900	1200	1600
Dee Osborne 1930 State Com 133H	900	1200	1600
Dee Osborne 1930 State Com 134H	900	1200	1600

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:** 8/15/2025

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
Dee Osborne 1930 State Com 104H	TBD	A-19-21S-35E	349' FNL, 1281' FEL	900	1200	1600
Dee Osborne 1930 State Com 111H	TBD	1-19-21S-35E	149' FNL, 1030' FWL	900	1200	1600
Dee Osborne 1930 State Com 112H	TBD	1-19-21S-35E	179' FNL, 1030' FWL	900	1200	1600
Dee Osborne 1930 State Com 113H	TBD	B-19-21S-35E	379' FNL, 1361' FEL	900	1200	1600
Dee Osborne 1930 State Com 114H	TBD	B-19-21S-35E	349' FNL, 1361' FEL	900	1200	1600
Dee Osborne 1930 State Com 131H	TBD	1-19-21S-35E	149' FNL, 1060' FWL	900	1200	1600
Dee Osborne 1930 State Com 132H	TBD	1-19-21S-35E	179' FNL, 1060' FWL	900	1200	1600
Dee Osborne 1930 State Com 133H	TBD	B-19-21S-35E	379' FNL, 1391' FEL	900	1200	1600
Dee Osborne 1930 State Com 134H	TBD	B-19-21S-35E	349' FNL, 1391' FEL	900	1200	1600

IV. Central Delivery Point Name: Dee Osborne 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
Dee Osborne 1930 State Com 104H	TBD	TBD	TBD	TBD	TBD	TBD
Dee Osborne 1930 State Com 111H	TBD	08/02/2026	08/25/2026	10/18/2026	01/02/2027	01/04/2027
Dee Osborne 1930 State Com 112H	TBD	08/25/2026	09/17/2026	10/18/2026	01/04/2027	01/06/2027
Dee Osborne 1930 State Com 113H	TBD	07/17/2026	08/09/2026	11/28/2026	01/13/2027	01/15/2027
Dee Osborne 1930 State Com 114H	TBD	09/03/2026	09/26/2026	11/28/2026	01/15/2027	01/17/2027
Dee Osborne 1930 State Com 131H	TBD	06/13/2026	07/08/2026	10/18/2026	12/29/2026	12/31/2026

Dee Osborne 1930 State Com 132H	TBD	07/08/2026	08/01/2026	10/18/2026	12/31/2026	01/02/2027
Dee Osborne 1930 State Com 133H	TBD	06/22/2026	07/16/2026	11/28/2026	01/11/2027	01/13/2027
Dee Osborne 1930 State Com 134H	TBD	08/09/2026	09/02/2026	11/28/2026	01/17/2027	01/19/2027

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 II
E-mail Address:	mark.gonzales@matadorresources.com
Date:	8/15/2025
Phone:	(575) 627-2435
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

Well Name: Dee Osborne 1930 State Com #134H

STRING	FLUID TYPE	HOLE SZ	CSG SZ	CSG GRADE	CSG WT	DEPTH SET	TOP CSG	TTL SX CEMENT	EST TOC	ADDITIONAL INFO FOR CSG/CMT PROGRAM (Optional)
SURF	FRESH WTR	20	13.375	J-55	54.50	1913	0	2021	0	Option to drill 17.5" surface 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	5749	0	1635	0	Option to run DV tool and Packer.
PROD	OBM/Cut Brine	8.75/6.75	5.5	P-110	20.00	20938	0	2145	5549	Option to drill 7.875" production hole.

Matador Production Company

Ranger/Arrowhead

Dee Osborne

Dee Osborne 1930 State Com #134H

Wellbore #1

State Plan #1

Anticollision Summary Report

09 August, 2025

Anticollision Summary Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dee Osborne 1930 State Com #134H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3671.8usft
Reference Site:	Dee Osborne	MD Reference:	KB @ 3671.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dee Osborne 1930 State Com #134H	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 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	8/9/2025	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	20,938.2	State Plan #1 (Wellbore #1)	MWD	OWSG MWD - Standard

Summary						
Site Name Offset Well - Wellbore - Design	Reference	Offset	Distance			Warning
	Measured	Measured	Between	Between	Separation	
Dee Osborne	Depth (usft)	Depth (usft)	Centres (usft)	Ellipses (usft)	Factor	
Dee Osborne 1930 State Com #104H - Wellbore #1 - Sta	1,267.5	1,258.6	109.6	101.0	12.822	CC
Dee Osborne 1930 State Com #104H - Wellbore #1 - Sta	1,300.0	1,290.0	109.7	101.0	12.517	ES
Dee Osborne 1930 State Com #104H - Wellbore #1 - Sta	8,416.6	8,429.1	167.8	106.9	2.756	SF
Dee Osborne 1930 State Com #111H - Wellbore #1 - Sta	1,000.0	1,002.2	2,728.0	2,721.3	406.157	CC, ES
Dee Osborne 1930 State Com #111H - Wellbore #1 - Sta	20,938.2	19,462.5	4,097.0	3,767.8	12.446	SF
Dee Osborne 1930 State Com #112H - Wellbore #1 - Sta	8,236.0	8,465.1	2,477.7	2,417.6	41.209	CC
Dee Osborne 1930 State Com #112H - Wellbore #1 - Sta	8,300.0	8,500.0	2,478.0	2,417.6	40.973	ES
Dee Osborne 1930 State Com #112H - Wellbore #1 - Sta	20,938.2	19,512.5	2,900.5	2,592.4	9.415	SF
Dee Osborne 1930 State Com #113H - Wellbore #1 - Sta	1,323.0	1,324.2	28.8	19.8	3.203	CC, ES, SF
Dee Osborne 1930 State Com #114H - Wellbore #1 - Sta	1,258.0	1,255.8	30.1	21.6	3.537	CC
Dee Osborne 1930 State Com #114H - Wellbore #1 - Sta	1,300.0	1,302.6	30.4	21.5	3.446	ES
Dee Osborne 1930 State Com #114H - Wellbore #1 - Sta	9,000.0	9,008.1	87.2	22.0	1.337	Level 3, SF
Dee Osborne 1930 State Com #121H - Wellbore #1 - Ac	1,003.1	1,005.9	2,617.0	2,610.5	401.522	CC, ES
Dee Osborne 1930 State Com #121H - Wellbore #1 - Ac	20,938.2	20,202.0	4,133.9	3,788.0	11.949	SF
Dee Osborne 1930 State Com #122H - Wellbore #1 - Ac	5,302.6	5,519.3	2,535.8	2,497.5	66.159	CC, ES
Dee Osborne 1930 State Com #122H - Wellbore #1 - Ac	20,938.2	20,006.0	3,014.4	2,677.7	8.954	SF
Dee Osborne 1930 State Com #123H - Wellbore #1 - Ac	0.0	0.0	85.5			
Dee Osborne 1930 State Com #123H - Wellbore #1 - Ac	200.0	197.8	86.1	85.2	99.433	ES
Dee Osborne 1930 State Com #123H - Wellbore #1 - Ac	20,938.2	20,263.6	1,704.1	1,373.3	5.152	SF
Dee Osborne 1930 State Com #124H - Wellbore #1 - Ac	0.0	0.0	79.9			
Dee Osborne 1930 State Com #124H - Wellbore #1 - Ac	5,500.0	5,508.6	114.1	73.9	2.843	ES
Dee Osborne 1930 State Com #124H - Wellbore #1 - Ac	6,600.0	6,607.1	127.3	78.5	2.609	SF
Dee Osborne 1930 State Com #131H - Wellbore #1 - Sta	1,000.0	1,002.4	2,698.2	2,691.5	401.672	CC, ES
Dee Osborne 1930 State Com #131H - Wellbore #1 - Sta	20,938.2	20,910.9	3,830.8	3,482.8	11.006	SF
Dee Osborne 1930 State Com #132H - Wellbore #1 - Sta	8,543.4	8,771.2	2,400.3	2,337.8	38.453	CC
Dee Osborne 1930 State Com #132H - Wellbore #1 - Sta	20,938.2	20,961.2	2,511.0	2,163.2	7.219	ES, SF
Dee Osborne 1930 State Com #133H - Wellbore #1 - Sta	1,000.0	1,000.0	30.2	23.5	4.501	CC
Dee Osborne 1930 State Com #133H - Wellbore #1 - Sta	1,100.0	1,100.0	30.9	23.5	4.164	ES
Dee Osborne 1930 State Com #133H - Wellbore #1 - Sta	20,938.2	20,930.5	1,319.9	974.5	3.821	SF
Offset Ranger Wells						
Livestock 30 State #1 - Wellbore #1 - Actual	20,400.0	10,721.1	324.3	-115.4	0.737	Level 1, ES, SF
Livestock 30 State #1 - Wellbore #1 - Actual	20,400.5	10,721.1	324.3	-115.4	0.738	Level 1, CC

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 Dee Osborne 1930 State Com #134H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3671.8usft
Reference Site:	Dee Osborne	MD Reference:	KB @ 3671.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dee Osborne 1930 State Com #134H	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 @ 3671.8usft

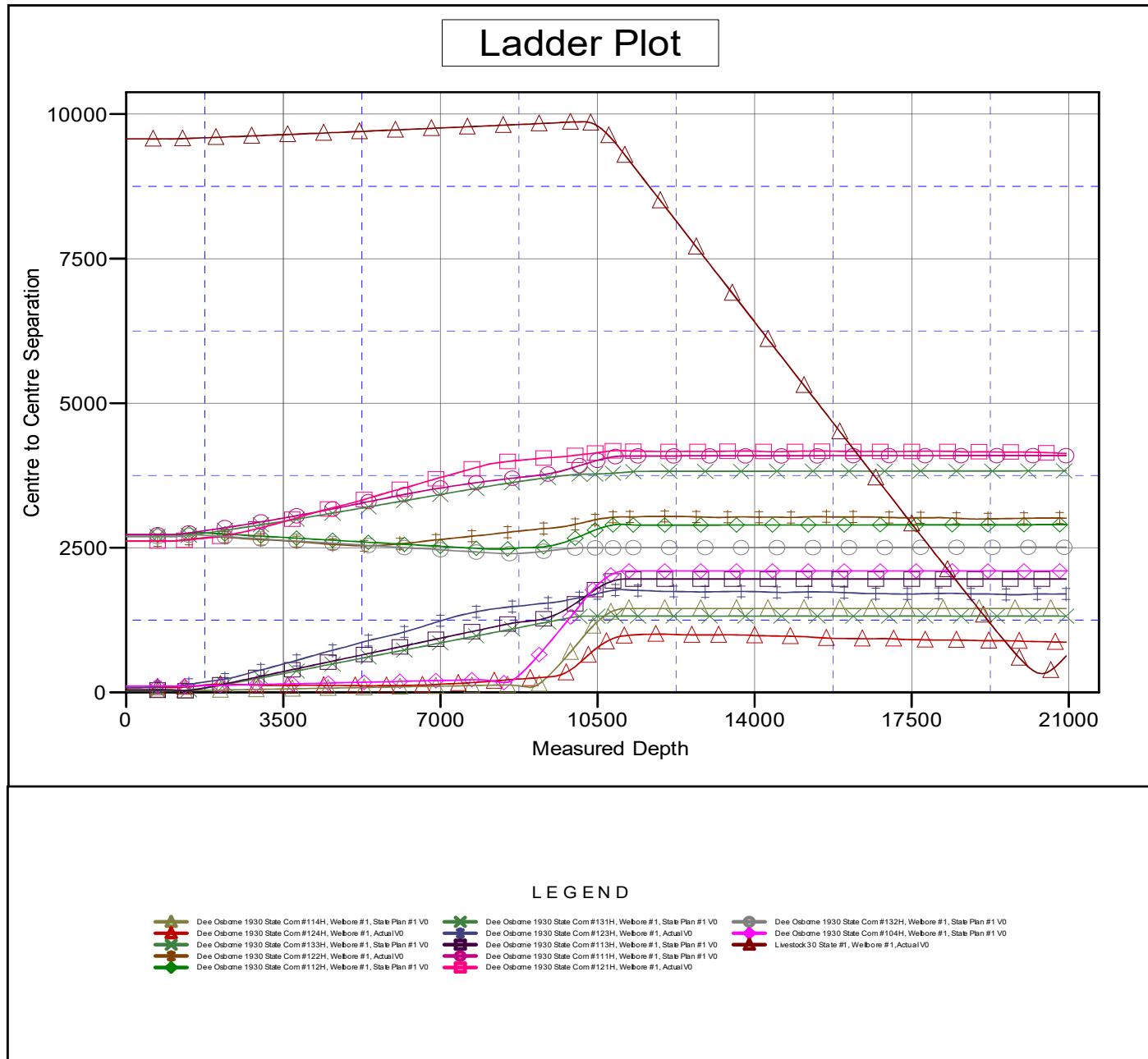
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Dee Osborne 1930 State Com #134H

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

Grid Convergence at Surface is: 0.50°



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 Dee Osborne 1930 State Com #134H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3671.8usft
Reference Site:	Dee Osborne	MD Reference:	KB @ 3671.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dee Osborne 1930 State Com #134H	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 @ 3671.8usft

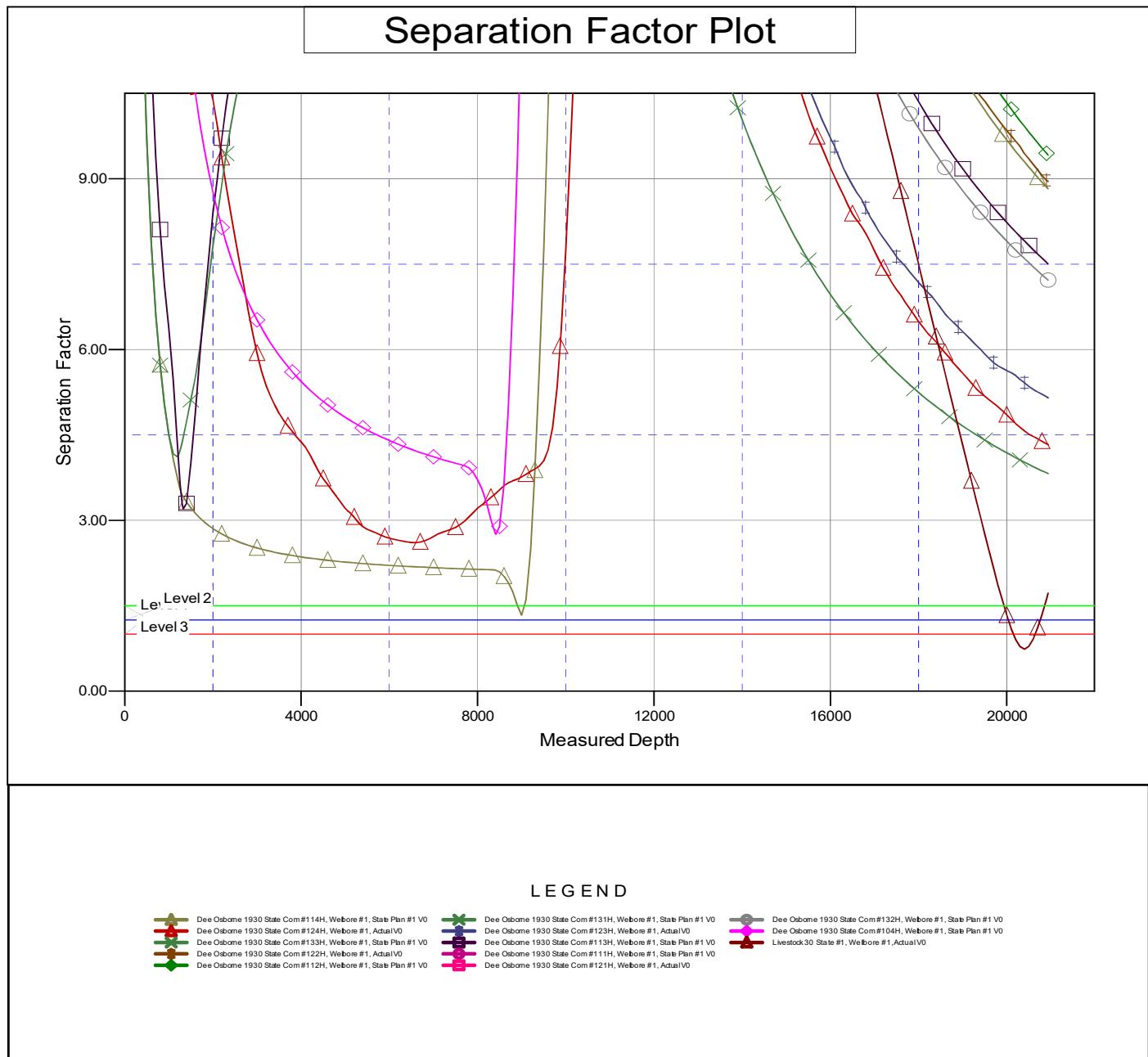
Coordinates are relative to: Dee Osborne 1930 State Com #134H

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: 0.50°



Matador Production Company

Ranger/Arrowhead

Dee Osborne

Dee Osborne 1930 State Com #134H

Wellbore #1

Plan: State Plan #1

Standard Planning Report

09 August, 2025

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Dee Osborne 1930 State Com #134H
Company:	Matador Production Company	TVD Reference:	KB @ 3671.8usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3671.8usft
Site:	Dee Osborne	North Reference:	Grid
Well:	Dee Osborne 1930 State Com #134H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Project	Ranger/Arrowhead		
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		

Site	Dee Osborne,		
Site Position:		Northing:	536,379.55 usft
From:	Lat/Long	Easting:	784,533.16 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
			Latitude: 32° 28' 16.457 N
			Longitude: 103° 24' 38.650 W
			Grid Convergence: 0.50 °

Well	Dee Osborne 1930 State Com #134H				
Well Position	+N/-S -177.1 usft	Northing:	536,202.49 usft	Latitude:	32° 28' 14.480 N
	+E/-W 2,612.2 usft	Easting:	787,145.34 usft	Longitude:	103° 24' 8.179 W
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level:	3,643.3 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/31/2024	6.06	60.21	47,321.94624875

Design	State Plan #1				
Audit Notes:					
Version:		Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:		Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
		0.0	0.0	0.0	179.52

Plan Survey Tool Program	Date	8/9/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,938.2 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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,254.1	5.08	67.32	1,253.8	4.3	10.4	2.00	2.00	0.00	67.32	
9,872.9	5.08	67.32	9,838.6	298.7	714.8	0.00	0.00	0.00	0.00	
10,211.7	0.00	0.00	10,177.0	304.5	728.7	1.50	-1.50	0.00	180.00	KOP - Dee Osborne 1
11,111.7	90.00	179.52	10,750.0	-268.4	733.5	10.00	10.00	0.00	179.52	
20,938.2	90.00	179.52	10,750.0	-10,094.6	815.8	0.00	0.00	0.00	0.00	BHL - Dee Osborne 1

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	EDM 5000.14 Single User Db Matador Production Company Ranger/Arrowhead Dee Osborne Dee Osborne 1930 State Com #134H Wellbore #1 State Plan #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Well Dee Osborne 1930 State Com #134H KB @ 3671.8usft KB @ 3671.8usft Grid Minimum Curvature
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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
690.0	0.00	0.00	690.0	0.0	0.0	0.0	0.00	0.00	0.00
G30:CS14-CSB (Lamar/Tansil)									
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	67.32	1,100.0	0.7	1.6	-0.7	2.00	2.00	0.00
1,200.0	4.00	67.32	1,199.8	2.7	6.4	-2.6	2.00	2.00	0.00
1,254.1	5.08	67.32	1,253.8	4.3	10.4	-4.3	2.00	2.00	0.00
Start 8618.8 hold at 1254.1 MD									
1,300.0	5.08	67.32	1,299.5	5.9	14.1	-5.8	0.00	0.00	0.00
1,400.0	5.08	67.32	1,399.1	9.3	22.3	-9.1	0.00	0.00	0.00
1,500.0	5.08	67.32	1,498.7	12.7	30.5	-12.5	0.00	0.00	0.00
1,600.0	5.08	67.32	1,598.3	16.2	38.7	-15.8	0.00	0.00	0.00
1,700.0	5.08	67.32	1,697.9	19.6	46.8	-19.2	0.00	0.00	0.00
1,800.0	5.08	67.32	1,797.5	23.0	55.0	-22.5	0.00	0.00	0.00
1,842.6	5.08	67.32	1,840.0	24.4	58.5	-24.0	0.00	0.00	0.00
Rustler									
1,900.0	5.08	67.32	1,897.1	26.4	63.2	-25.9	0.00	0.00	0.00
2,000.0	5.08	67.32	1,996.7	29.8	71.4	-29.2	0.00	0.00	0.00
2,100.0	5.08	67.32	2,096.3	33.2	79.5	-32.6	0.00	0.00	0.00
2,200.0	5.08	67.32	2,195.9	36.6	87.7	-35.9	0.00	0.00	0.00
2,249.2	5.08	67.32	2,245.0	38.3	91.7	-37.6	0.00	0.00	0.00
Salado									
2,300.0	5.08	67.32	2,295.6	40.1	95.9	-39.3	0.00	0.00	0.00
2,400.0	5.08	67.32	2,395.2	43.5	104.0	-42.6	0.00	0.00	0.00
2,500.0	5.08	67.32	2,494.8	46.9	112.2	-46.0	0.00	0.00	0.00
2,600.0	5.08	67.32	2,594.4	50.3	120.4	-49.3	0.00	0.00	0.00
2,700.0	5.08	67.32	2,694.0	53.7	128.6	-52.6	0.00	0.00	0.00
2,800.0	5.08	67.32	2,793.6	57.1	136.7	-56.0	0.00	0.00	0.00
2,900.0	5.08	67.32	2,893.2	60.6	144.9	-59.3	0.00	0.00	0.00
3,000.0	5.08	67.32	2,992.8	64.0	153.1	-62.7	0.00	0.00	0.00
3,100.0	5.08	67.32	3,092.4	67.4	161.3	-66.0	0.00	0.00	0.00
3,200.0	5.08	67.32	3,192.0	70.8	169.4	-69.4	0.00	0.00	0.00
3,300.0	5.08	67.32	3,291.6	74.2	177.6	-72.7	0.00	0.00	0.00
3,400.0	5.08	67.32	3,391.2	77.6	185.8	-76.1	0.00	0.00	0.00
3,500.0	5.08	67.32	3,490.8	81.1	193.9	-79.4	0.00	0.00	0.00
3,600.0	5.08	67.32	3,590.4	84.5	202.1	-82.8	0.00	0.00	0.00
3,700.0	5.08	67.32	3,690.1	87.9	210.3	-86.1	0.00	0.00	0.00
3,800.0	5.08	67.32	3,789.7	91.3	218.5	-89.5	0.00	0.00	0.00
3,900.0	5.08	67.32	3,889.3	94.7	226.6	-92.8	0.00	0.00	0.00
4,000.0	5.08	67.32	3,988.9	98.1	234.8	-96.2	0.00	0.00	0.00
4,100.0	5.08	67.32	4,088.5	101.5	243.0	-99.5	0.00	0.00	0.00
4,127.6	5.08	67.32	4,116.0	102.5	245.2	-100.4	0.00	0.00	0.00
Capitan									

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	EDM 5000.14 Single User Db Matador Production Company Ranger/Arrowhead Dee Osborne Dee Osborne 1930 State Com #134H Wellbore #1 State Plan #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Well Dee Osborne 1930 State Com #134H KB @ 3671.8usft KB @ 3671.8usft Grid Minimum Curvature
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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)
4,200.0	5.08	67.32	4,188.1	105.0	251.2	-102.9	0.00	0.00	0.00
4,300.0	5.08	67.32	4,287.7	108.4	259.3	-106.2	0.00	0.00	0.00
4,400.0	5.08	67.32	4,387.3	111.8	267.5	-109.5	0.00	0.00	0.00
4,500.0	5.08	67.32	4,486.9	115.2	275.7	-112.9	0.00	0.00	0.00
4,600.0	5.08	67.32	4,586.5	118.6	283.9	-116.2	0.00	0.00	0.00
4,700.0	5.08	67.32	4,686.1	122.0	292.0	-119.6	0.00	0.00	0.00
4,800.0	5.08	67.32	4,785.7	125.5	300.2	-122.9	0.00	0.00	0.00
4,900.0	5.08	67.32	4,885.3	128.9	308.4	-126.3	0.00	0.00	0.00
5,000.0	5.08	67.32	4,984.9	132.3	316.5	-129.6	0.00	0.00	0.00
5,100.0	5.08	67.32	5,084.5	135.7	324.7	-133.0	0.00	0.00	0.00
5,200.0	5.08	67.32	5,184.2	139.1	332.9	-136.3	0.00	0.00	0.00
5,300.0	5.08	67.32	5,283.8	142.5	341.1	-139.7	0.00	0.00	0.00
5,400.0	5.08	67.32	5,383.4	145.9	349.2	-143.0	0.00	0.00	0.00
5,500.0	5.08	67.32	5,483.0	149.4	357.4	-146.4	0.00	0.00	0.00
5,600.0	5.08	67.32	5,582.6	152.8	365.6	-149.7	0.00	0.00	0.00
5,699.8	5.08	67.32	5,682.0	156.2	373.7	-153.1	0.00	0.00	0.00
G13: Cherry Cyn.									
5,700.0	5.08	67.32	5,682.2	156.2	373.8	-153.1	0.00	0.00	0.00
5,800.0	5.08	67.32	5,781.8	159.6	381.9	-156.4	0.00	0.00	0.00
5,900.0	5.08	67.32	5,881.4	163.0	390.1	-159.8	0.00	0.00	0.00
6,000.0	5.08	67.32	5,981.0	166.4	398.3	-163.1	0.00	0.00	0.00
6,100.0	5.08	67.32	6,080.6	169.9	406.4	-166.4	0.00	0.00	0.00
6,200.0	5.08	67.32	6,180.2	173.3	414.6	-169.8	0.00	0.00	0.00
6,300.0	5.08	67.32	6,279.8	176.7	422.8	-173.1	0.00	0.00	0.00
6,400.0	5.08	67.32	6,379.4	180.1	431.0	-176.5	0.00	0.00	0.00
6,500.0	5.08	67.32	6,479.0	183.5	439.1	-179.8	0.00	0.00	0.00
6,600.0	5.08	67.32	6,578.7	186.9	447.3	-183.2	0.00	0.00	0.00
6,700.0	5.08	67.32	6,678.3	190.3	455.5	-186.5	0.00	0.00	0.00
6,800.0	5.08	67.32	6,777.9	193.8	463.7	-189.9	0.00	0.00	0.00
6,878.4	5.08	67.32	6,856.0	196.4	470.1	-192.5	0.00	0.00	0.00
G7: Brushy Cyn.									
6,900.0	5.08	67.32	6,877.5	197.2	471.8	-193.2	0.00	0.00	0.00
7,000.0	5.08	67.32	6,977.1	200.6	480.0	-196.6	0.00	0.00	0.00
7,100.0	5.08	67.32	7,076.7	204.0	488.2	-199.9	0.00	0.00	0.00
7,200.0	5.08	67.32	7,176.3	207.4	496.4	-203.3	0.00	0.00	0.00
7,300.0	5.08	67.32	7,275.9	210.8	504.5	-206.6	0.00	0.00	0.00
7,400.0	5.08	67.32	7,375.5	214.3	512.7	-210.0	0.00	0.00	0.00
7,500.0	5.08	67.32	7,475.1	217.7	520.9	-213.3	0.00	0.00	0.00
7,600.0	5.08	67.32	7,574.7	221.1	529.0	-216.6	0.00	0.00	0.00
7,700.0	5.08	67.32	7,674.3	224.5	537.2	-220.0	0.00	0.00	0.00
7,800.0	5.08	67.32	7,773.9	227.9	545.4	-223.3	0.00	0.00	0.00
7,867.3	5.08	67.32	7,841.0	230.2	550.9	-225.6	0.00	0.00	0.00
G5: L. Brushy Cyn.									
7,900.0	5.08	67.32	7,873.5	231.3	553.6	-226.7	0.00	0.00	0.00
8,000.0	5.08	67.32	7,973.1	234.8	561.7	-230.0	0.00	0.00	0.00
8,100.0	5.08	67.32	8,072.8	238.2	569.9	-233.4	0.00	0.00	0.00
8,127.4	5.08	67.32	8,100.0	239.1	572.1	-234.3	0.00	0.00	0.00
G4: BSGL (CS9)									
8,200.0	5.08	67.32	8,172.4	241.6	578.1	-236.7	0.00	0.00	0.00
8,300.0	5.08	67.32	8,272.0	245.0	586.3	-240.1	0.00	0.00	0.00
8,400.0	5.08	67.32	8,371.6	248.4	594.4	-243.4	0.00	0.00	0.00
8,500.0	5.08	67.32	8,471.2	251.8	602.6	-246.8	0.00	0.00	0.00
8,555.0	5.08	67.32	8,526.0	253.7	607.1	-248.6	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Dee Osborne 1930 State Com #134H
Company:	Matador Production Company	TVD Reference:	KB @ 3671.8usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3671.8usft
Site:	Dee Osborne	North Reference:	Grid
Well:	Dee Osborne 1930 State Com #134H	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)
L8.2: U. Avalon Shale									
8,600.0	5.08	67.32	8,570.8	255.2	610.8	-250.1	0.00	0.00	0.00
8,700.0	5.08	67.32	8,670.4	258.7	618.9	-253.5	0.00	0.00	0.00
8,703.6	5.08	67.32	8,674.0	258.8	619.2	-253.6	0.00	0.00	0.00
L6.3: Avalon Carb									
8,800.0	5.08	67.32	8,770.0	262.1	627.1	-256.8	0.00	0.00	0.00
8,900.0	5.08	67.32	8,869.6	265.5	635.3	-260.2	0.00	0.00	0.00
9,000.0	5.08	67.32	8,969.2	268.9	643.5	-263.5	0.00	0.00	0.00
9,100.0	5.08	67.32	9,068.8	272.3	651.6	-266.9	0.00	0.00	0.00
9,199.6	5.08	67.32	9,168.0	275.7	659.8	-270.2	0.00	0.00	0.00
L5.3: FBSC									
9,200.0	5.08	67.32	9,168.4	275.7	659.8	-270.2	0.00	0.00	0.00
9,288.9	5.08	67.32	9,257.0	278.8	667.1	-273.2	0.00	0.00	0.00
L5.1: FBSG									
9,300.0	5.08	67.32	9,268.0	279.2	668.0	-273.5	0.00	0.00	0.00
9,400.0	5.08	67.32	9,367.6	282.6	676.2	-276.9	0.00	0.00	0.00
9,482.7	5.08	67.32	9,450.0	285.4	682.9	-279.7	0.00	0.00	0.00
L4.3: SBSC									
9,500.0	5.08	67.32	9,467.3	286.0	684.3	-280.2	0.00	0.00	0.00
9,600.0	5.08	67.32	9,566.9	289.4	692.5	-283.6	0.00	0.00	0.00
9,700.0	5.08	67.32	9,666.5	292.8	700.7	-286.9	0.00	0.00	0.00
9,800.0	5.08	67.32	9,766.1	296.2	708.8	-290.3	0.00	0.00	0.00
9,837.1	5.08	67.32	9,803.0	297.5	711.9	-291.5	0.00	0.00	0.00
L4.1: SBSG									
9,872.9	5.08	67.32	9,838.6	298.7	714.8	-292.7	0.00	0.00	0.00
Start Drop -1.50									
9,900.0	4.67	67.32	9,865.7	299.6	716.9	-293.6	1.50	-1.50	0.00
10,000.0	3.17	67.32	9,965.5	302.2	723.2	-296.2	1.50	-1.50	0.00
10,100.0	1.67	67.32	10,065.4	303.9	727.2	-297.8	1.50	-1.50	0.00
10,200.0	0.17	67.32	10,165.3	304.5	728.6	-298.4	1.50	-1.50	0.00
10,211.7	0.00	0.00	10,177.0	304.5	728.7	-298.4	1.50	-1.50	-577.51
Start Build 10.00 - KOP - Dee Osborne 1930 State Com #134H									
10,241.7	3.00	179.52	10,207.0	303.7	728.7	-297.6	10.00	10.00	598.13
L3.3: TBSC									
10,300.0	8.83	179.52	10,265.0	297.7	728.7	-291.6	10.00	10.00	0.00
10,400.0	18.83	179.52	10,362.0	273.8	728.9	-267.7	10.00	10.00	0.00
10,500.0	28.83	179.52	10,453.3	233.5	729.3	-227.4	10.00	10.00	0.00
10,600.0	38.83	179.52	10,536.3	177.9	729.7	-171.7	10.00	10.00	0.00
10,700.0	48.83	179.52	10,608.3	108.7	730.3	-102.6	10.00	10.00	0.00
10,745.7	53.40	179.52	10,637.0	73.1	730.6	-67.0	10.00	10.00	0.00
L3.1: TBSG									
10,800.0	58.83	179.52	10,667.3	28.1	731.0	-21.9	10.00	10.00	0.00
10,900.0	68.83	179.52	10,711.3	-61.6	731.7	67.7	10.00	10.00	0.00
11,000.0	78.83	179.52	10,739.1	-157.5	732.5	163.6	10.00	10.00	0.00
11,100.0	88.83	179.52	10,749.8	-256.8	733.4	262.9	10.00	10.00	0.00
11,111.7	90.00	179.52	10,750.0	-268.4	733.5	274.6	10.00	10.00	0.00
Start 9826.6 hold at 11111.7 MD									
11,200.0	90.00	179.52	10,750.0	-356.8	734.2	362.9	0.00	0.00	0.00
11,300.0	90.00	179.52	10,750.0	-456.8	735.0	462.9	0.00	0.00	0.00
11,400.0	90.00	179.52	10,750.0	-556.8	735.9	562.9	0.00	0.00	0.00
11,500.0	90.00	179.52	10,750.0	-656.8	736.7	662.9	0.00	0.00	0.00
11,600.0	90.00	179.52	10,750.0	-756.8	737.5	762.9	0.00	0.00	0.00
11,700.0	90.00	179.52	10,750.0	-856.8	738.4	862.9	0.00	0.00	0.00

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	EDM 5000.14 Single User Db Matador Production Company Ranger/Arrowhead Dee Osborne Dee Osborne 1930 State Com #134H Wellbore #1 State Plan #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Well Dee Osborne 1930 State Com #134H KB @ 3671.8usft KB @ 3671.8usft Grid Minimum Curvature
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Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
11,800.0	90.00	179.52	10,750.0	-956.7	739.2	962.9	0.00	0.00	0.00	0.00
11,900.0	90.00	179.52	10,750.0	-1,056.7	740.1	1,062.9	0.00	0.00	0.00	0.00
12,000.0	90.00	179.52	10,750.0	-1,156.7	740.9	1,162.9	0.00	0.00	0.00	0.00
12,100.0	90.00	179.52	10,750.0	-1,256.7	741.7	1,262.9	0.00	0.00	0.00	0.00
12,200.0	90.00	179.52	10,750.0	-1,356.7	742.6	1,362.9	0.00	0.00	0.00	0.00
12,300.0	90.00	179.52	10,750.0	-1,456.7	743.4	1,462.9	0.00	0.00	0.00	0.00
12,400.0	90.00	179.52	10,750.0	-1,556.7	744.3	1,562.9	0.00	0.00	0.00	0.00
12,500.0	90.00	179.52	10,750.0	-1,656.7	745.1	1,662.9	0.00	0.00	0.00	0.00
12,600.0	90.00	179.52	10,750.0	-1,756.7	745.9	1,762.9	0.00	0.00	0.00	0.00
12,700.0	90.00	179.52	10,750.0	-1,856.7	746.8	1,862.9	0.00	0.00	0.00	0.00
12,800.0	90.00	179.52	10,750.0	-1,956.7	747.6	1,962.9	0.00	0.00	0.00	0.00
12,900.0	90.00	179.52	10,750.0	-2,056.7	748.4	2,062.9	0.00	0.00	0.00	0.00
13,000.0	90.00	179.52	10,750.0	-2,156.7	749.3	2,162.9	0.00	0.00	0.00	0.00
13,100.0	90.00	179.52	10,750.0	-2,256.7	750.1	2,262.9	0.00	0.00	0.00	0.00
13,200.0	90.00	179.52	10,750.0	-2,356.7	751.0	2,362.9	0.00	0.00	0.00	0.00
13,300.0	90.00	179.52	10,750.0	-2,456.7	751.8	2,462.9	0.00	0.00	0.00	0.00
13,400.0	90.00	179.52	10,750.0	-2,556.7	752.6	2,562.9	0.00	0.00	0.00	0.00
13,500.0	90.00	179.52	10,750.0	-2,656.7	753.5	2,662.9	0.00	0.00	0.00	0.00
13,600.0	90.00	179.52	10,750.0	-2,756.7	754.3	2,762.9	0.00	0.00	0.00	0.00
13,700.0	90.00	179.52	10,750.0	-2,856.7	755.1	2,862.9	0.00	0.00	0.00	0.00
13,800.0	90.00	179.52	10,750.0	-2,956.7	756.0	2,962.9	0.00	0.00	0.00	0.00
13,900.0	90.00	179.52	10,750.0	-3,056.7	756.8	3,062.9	0.00	0.00	0.00	0.00
14,000.0	90.00	179.52	10,750.0	-3,156.7	757.7	3,162.9	0.00	0.00	0.00	0.00
14,100.0	90.00	179.52	10,750.0	-3,256.7	758.5	3,262.9	0.00	0.00	0.00	0.00
14,200.0	90.00	179.52	10,750.0	-3,356.7	759.3	3,362.9	0.00	0.00	0.00	0.00
14,300.0	90.00	179.52	10,750.0	-3,456.7	760.2	3,462.9	0.00	0.00	0.00	0.00
14,400.0	90.00	179.52	10,750.0	-3,556.7	761.0	3,562.9	0.00	0.00	0.00	0.00
14,500.0	90.00	179.52	10,750.0	-3,656.7	761.8	3,662.9	0.00	0.00	0.00	0.00
14,600.0	90.00	179.52	10,750.0	-3,756.7	762.7	3,762.9	0.00	0.00	0.00	0.00
14,700.0	90.00	179.52	10,750.0	-3,856.6	763.5	3,862.9	0.00	0.00	0.00	0.00
14,800.0	90.00	179.52	10,750.0	-3,956.6	764.4	3,962.9	0.00	0.00	0.00	0.00
14,900.0	90.00	179.52	10,750.0	-4,056.6	765.2	4,062.9	0.00	0.00	0.00	0.00
15,000.0	90.00	179.52	10,750.0	-4,156.6	766.0	4,162.9	0.00	0.00	0.00	0.00
15,100.0	90.00	179.52	10,750.0	-4,256.6	766.9	4,262.9	0.00	0.00	0.00	0.00
15,200.0	90.00	179.52	10,750.0	-4,356.6	767.7	4,362.9	0.00	0.00	0.00	0.00
15,300.0	90.00	179.52	10,750.0	-4,456.6	768.5	4,462.9	0.00	0.00	0.00	0.00
15,400.0	90.00	179.52	10,750.0	-4,556.6	769.4	4,562.9	0.00	0.00	0.00	0.00
15,500.0	90.00	179.52	10,750.0	-4,656.6	770.2	4,662.9	0.00	0.00	0.00	0.00
15,600.0	90.00	179.52	10,750.0	-4,756.6	771.1	4,762.9	0.00	0.00	0.00	0.00
15,700.0	90.00	179.52	10,750.0	-4,856.6	771.9	4,862.9	0.00	0.00	0.00	0.00
15,800.0	90.00	179.52	10,750.0	-4,956.6	772.7	4,962.9	0.00	0.00	0.00	0.00
15,900.0	90.00	179.52	10,750.0	-5,056.6	773.6	5,062.9	0.00	0.00	0.00	0.00
16,000.0	90.00	179.52	10,750.0	-5,156.6	774.4	5,162.9	0.00	0.00	0.00	0.00
16,100.0	90.00	179.52	10,750.0	-5,256.6	775.2	5,262.9	0.00	0.00	0.00	0.00
16,200.0	90.00	179.52	10,750.0	-5,356.6	776.1	5,362.9	0.00	0.00	0.00	0.00
16,300.0	90.00	179.52	10,750.0	-5,456.6	776.9	5,462.9	0.00	0.00	0.00	0.00
16,400.0	90.00	179.52	10,750.0	-5,556.6	777.8	5,562.9	0.00	0.00	0.00	0.00
16,500.0	90.00	179.52	10,750.0	-5,656.6	778.6	5,662.9	0.00	0.00	0.00	0.00
16,600.0	90.00	179.52	10,750.0	-5,756.6	779.4	5,762.9	0.00	0.00	0.00	0.00
16,700.0	90.00	179.52	10,750.0	-5,856.6	780.3	5,862.9	0.00	0.00	0.00	0.00
16,800.0	90.00	179.52	10,750.0	-5,956.6	781.1	5,962.9	0.00	0.00	0.00	0.00
16,900.0	90.00	179.52	10,750.0	-6,056.6	781.9	6,062.9	0.00	0.00	0.00	0.00
17,000.0	90.00	179.52	10,750.0	-6,156.6	782.8	6,162.9	0.00	0.00	0.00	0.00
17,100.0	90.00	179.52	10,750.0	-6,256.6	783.6	6,262.9	0.00	0.00	0.00	0.00

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	EDM 5000.14 Single User Db Matador Production Company Ranger/Arrowhead Dee Osborne Dee Osborne 1930 State Com #134H Wellbore #1 State Plan #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Well Dee Osborne 1930 State Com #134H KB @ 3671.8usft KB @ 3671.8usft Grid Minimum Curvature
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Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
17,200.0	90.00	179.52	10,750.0	-6,356.6	784.5	6,362.9	0.00	0.00	0.00	
17,300.0	90.00	179.52	10,750.0	-6,456.6	785.3	6,462.9	0.00	0.00	0.00	
17,400.0	90.00	179.52	10,750.0	-6,556.6	786.1	6,562.9	0.00	0.00	0.00	
17,500.0	90.00	179.52	10,750.0	-6,656.5	787.0	6,662.9	0.00	0.00	0.00	
17,600.0	90.00	179.52	10,750.0	-6,756.5	787.8	6,762.9	0.00	0.00	0.00	
17,700.0	90.00	179.52	10,750.0	-6,856.5	788.7	6,862.9	0.00	0.00	0.00	
17,800.0	90.00	179.52	10,750.0	-6,956.5	789.5	6,962.9	0.00	0.00	0.00	
17,900.0	90.00	179.52	10,750.0	-7,056.5	790.3	7,062.9	0.00	0.00	0.00	
18,000.0	90.00	179.52	10,750.0	-7,156.5	791.2	7,162.9	0.00	0.00	0.00	
18,100.0	90.00	179.52	10,750.0	-7,256.5	792.0	7,262.9	0.00	0.00	0.00	
18,200.0	90.00	179.52	10,750.0	-7,356.5	792.8	7,362.9	0.00	0.00	0.00	
18,300.0	90.00	179.52	10,750.0	-7,456.5	793.7	7,462.9	0.00	0.00	0.00	
18,400.0	90.00	179.52	10,750.0	-7,556.5	794.5	7,562.9	0.00	0.00	0.00	
18,500.0	90.00	179.52	10,750.0	-7,656.5	795.4	7,662.9	0.00	0.00	0.00	
18,600.0	90.00	179.52	10,750.0	-7,756.5	796.2	7,762.9	0.00	0.00	0.00	
18,700.0	90.00	179.52	10,750.0	-7,856.5	797.0	7,862.9	0.00	0.00	0.00	
18,800.0	90.00	179.52	10,750.0	-7,956.5	797.9	7,962.9	0.00	0.00	0.00	
18,900.0	90.00	179.52	10,750.0	-8,056.5	798.7	8,062.9	0.00	0.00	0.00	
19,000.0	90.00	179.52	10,750.0	-8,156.5	799.5	8,162.9	0.00	0.00	0.00	
19,100.0	90.00	179.52	10,750.0	-8,256.5	800.4	8,262.9	0.00	0.00	0.00	
19,200.0	90.00	179.52	10,750.0	-8,356.5	801.2	8,362.9	0.00	0.00	0.00	
19,300.0	90.00	179.52	10,750.0	-8,456.5	802.1	8,462.9	0.00	0.00	0.00	
19,400.0	90.00	179.52	10,750.0	-8,556.5	802.9	8,562.9	0.00	0.00	0.00	
19,500.0	90.00	179.52	10,750.0	-8,656.5	803.7	8,662.9	0.00	0.00	0.00	
19,600.0	90.00	179.52	10,750.0	-8,756.5	804.6	8,762.9	0.00	0.00	0.00	
19,700.0	90.00	179.52	10,750.0	-8,856.5	805.4	8,862.9	0.00	0.00	0.00	
19,800.0	90.00	179.52	10,750.0	-8,956.5	806.2	8,962.9	0.00	0.00	0.00	
19,900.0	90.00	179.52	10,750.0	-9,056.5	807.1	9,062.9	0.00	0.00	0.00	
20,000.0	90.00	179.52	10,750.0	-9,156.5	807.9	9,162.9	0.00	0.00	0.00	
20,100.0	90.00	179.52	10,750.0	-9,256.5	808.8	9,262.9	0.00	0.00	0.00	
20,200.0	90.00	179.52	10,750.0	-9,356.5	809.6	9,362.9	0.00	0.00	0.00	
20,300.0	90.00	179.52	10,750.0	-9,456.5	810.4	9,462.9	0.00	0.00	0.00	
20,400.0	90.00	179.52	10,750.0	-9,556.4	811.3	9,562.9	0.00	0.00	0.00	
20,500.0	90.00	179.52	10,750.0	-9,656.4	812.1	9,662.9	0.00	0.00	0.00	
20,600.0	90.00	179.52	10,750.0	-9,756.4	812.9	9,762.9	0.00	0.00	0.00	
20,700.0	90.00	179.52	10,750.0	-9,856.4	813.8	9,862.9	0.00	0.00	0.00	
20,800.0	90.00	179.52	10,750.0	-9,956.4	814.6	9,962.9	0.00	0.00	0.00	
20,900.0	90.00	179.52	10,750.0	-10,056.4	815.5	10,062.9	0.00	0.00	0.00	
20,938.2	90.00	179.52	10,750.0	-10,094.6	815.8	10,101.1	0.00	0.00	0.00	
TD at 20938.2 - BHL - Dee Osborne 1930 State Com #134H										

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	EDM 5000.14 Single User Db Matador Production Company Ranger/Arrowhead Dee Osborne Dee Osborne 1930 State Com #134H Wellbore #1 State Plan #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Well Dee Osborne 1930 State Com #134H KB @ 3671.8usft KB @ 3671.8usft Grid Minimum Curvature
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Design Targets									
Target Name									
- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP - Dee Osborne 193 - plan hits target center - Point	0.00	0.00	10,177.0	304.5	728.7	536,507.00	787,874.00	32° 28' 17.430 N	103° 23' 59.644 W
BHL - Dee Osborne 193I - plan misses target center by 0.2usft at 20938.2usft MD (10750.0 TVD, -10094.6 N, 815.8 E) - Point	0.00	0.00	10,750.0	-10,094.7	815.6	526,107.84	787,960.91	32° 26' 34.526 N	103° 23' 59.690 W

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
690.0	690.0	G30:CS14-CSB (Lamar/Tansil)		0.00	179.52	
1,842.6	1,840.0	Rustler		0.00	179.52	
2,249.2	2,245.0	Salado		0.00	179.52	
4,127.6	4,116.0	Capitan		0.00	179.52	
5,699.8	5,682.0	G13: Cherry Cyn.		0.00	179.52	
6,878.4	6,856.0	G7: Brushy Cyn.		0.00	179.52	
7,867.3	7,841.0	G5: L. Brushy Cyn.		0.00	179.52	
8,127.4	8,100.0	G4: BSGL (CS9)		0.00	179.52	
8,555.0	8,526.0	L8.2: U. Avalon Shale		0.00	179.52	
8,703.6	8,674.0	L6.3: Avalon Carb		0.00	179.52	
9,199.6	9,168.0	L5.3: FBSC		0.00	179.52	
9,288.9	9,257.0	L5.1: FBSG		0.00	179.52	
9,482.7	9,450.0	L4.3: SBSC		0.00	179.52	
9,837.1	9,803.0	L4.1: SBSG		0.00	179.52	
10,241.7	10,207.0	L3.3: TBSC		0.00	179.52	
10,745.7	10,637.0	L3.1: TBSG		0.00	179.52	

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	
1,254.1	1,253.8	4.3	10.4	Start 8618.8 hold at 1254.1 MD	
9,872.9	9,838.6	298.7	714.8	Start Drop -1.50	
10,211.7	10,177.0	304.5	728.7	Start Build 10.00	
11,111.7	10,750.0	-268.4	733.5	Start 9826.6 hold at 11111.7 MD	
20,938.2	10,750.0	-10,094.6	815.8	TD at 20938.2	