U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

10/02/2025

Well Name: RAE'S CREEK 25 36 22 FED COM

Well Location: T25S / R36E / SEC 22 / SWSE / 32.1091419 / -103.2501764

County or Parish/State: LEA / NM

Well Number: 095H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM136231

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: MATADOR PRODUCTION COMPANY

Notice of Intent

Sundry ID: 2865125

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 07/25/2025

Time Sundry Submitted: 11:35

Date proposed operation will begin: 07/24/2025

Procedure Description: Matador request the option to amend the well design of the Raes Creek 25 36 22 Fed Com 095H and make the following changes to the current APD: - BHL will be moved from 110' FNL and 1651' FEL to 110' FNL and 333’ FEL. Updated C102 attached. - Change the well target from 10700' to 14330' TVD - Add a 8.75" pilot hole to 14772' TVD - Modify casing and hole as shown on the casing and cement table

NOI Attachments

Procedure Description

Raes_Creek_25_36_22_Fed_Com_095H_Drill_Plan_v3_20250827112312.pdf

Rae_s_Creek_25_36_22_Fed_Com_095H_Pilot_Directional_Well_Plan_v1_20250827112312.pdf

Raes_Creek_25_36_22_Fed_Com_095H_Break_Testing_Sundry_20250827112312.pdf

Raes_Creek_25_36_22_Fed_Com_095H_Csg_Specs_5.5in_20lb_TLW_SC_20250827112312.pdf

Raes_Creek_25_36_22_Fed_Com_095H_Casing_Table_Spec_v3_20250827112312.pdf

Raes_Creek_25_36_22_Fed_Com_095H_Offline_Cementing___Int_20250827112312.pdf

Rae_s_Creek_25_36_22_Fed_Com_095H_Directional_Wall_Plot_v1_20250827112312.pdf

Rae_s_Creek_25_36_22_Fed_Com_095H_Pilot_Directional_Wall_Plot_v1_20250827112312.pdf

Raes_Creek_25_36_22_Fed_Com_095H_Csg_Specs_7.625in_29.7lb_P110EC_20250827112312.pdf

Well Name: RAE S CREEK 25 36 22 FED COM

Well Location: T25S / R36E / SEC 22 / SWSE / 32.1091419 / -103.2501764

County or Parish/State: LEA / NM

Well Number: 095H

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Operator: MATADOR PRODUCTION COMPANY

Raes_Creek_25_36_22_Fed_Com_095H_Offline_Cementing___Surface_20250827112312.pdf

Rae_s_Creek_25_36_22_Fed_Com_095H_Directional_Well_Plan_v1_20250827112312.pdf

Rae_s_Creek_25_36_22_Fed_Com_095H_Directional_AC_Report_20250827112311.pdf

C_102_LO_RAE_S_CREEK_25_36_22_FED_COM_095H_REV8_S_signed_20250827112223.pdf

C_102_RAE_S_CREEK_25_36_22_FED_COM_095H_REV8__20250806142542.pdf

Raes_Creek_25_36_22_Fed_Com_095H_Csg_Specs_5.5in_20lb_TLW_SC_20250725104147.pdf

Raes_Creek_25_36_22_Fed_Com_095H_Offline_Cementing___Surface_20250725104147.pdf

Rae_s_Creek_25_36_22_Fed_Com_095H_Pilot_Directional_Well_Plan_v1_20250725104147.pdf

Raes_Creek_25_36_22_Fed_Com_095H_Drill_Plan_v3_20250725104147.pdf

Rae_s_Creek_25_36_22_Fed_Com_095H_Directional_Well_Plan_v1_20250725104147.pdf

Rae_s_Creek_25_36_22_Fed_Com_095H_Pilot_Directional_Wall_Plot_v1_20250725104147.pdf

Rae_s_Creek_25_36_22_Fed_Com_095H_Directional_Wall_Plot_v1_20250725104147.pdf

Rae_s_Creek_25_36_22_Fed_Com_095H_Directional_AC_Report_20250725104147.pdf

Raes_Creek_25_36_22_Fed_Com_095H_Break_Testing_Sundry_20250725104148.pdf

Raes_Creek_25_36_22_Fed_Com_095H_Offline_Cementing___Int_20250725104148.pdf

Raes_Creek_25_36_22_Fed_Com_095H_Csg_Specs_7.625in_29.7lb_P110EC_20250725104147.pdf

Raes_Creek_25_36_22_Fed_Com_095H_Casing_Table_Spec_v3_20250725104147.pdf

Conditions of Approval

Additional

Raes_Creek_25_36_22_Fed_Com_095H_Drill_Plan_v4_20250930150442.pdf

RAE_S_CREEK_25_36_22_FED_COM_095H_Sundry_2865125_COA_20250930150442.pdf

Well Name: RAE'S CREEK 25 36 22 FED COM

Well Location: T25S / R36E / SEC 22 / SWSE / 32.1091419 / -103.2501764

County or Parish/State: LEA / NM

Well Number: 095H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM136231

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: MATADOR PRODUCTION COMPANY

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: NICKY FITZGERALD

Signed on: AUG 27, 2025 11:23 AM

Name: MATADOR PRODUCTION COMPANY

Title: Regulatory Consultant

Street Address: 5400 LBJ FREEWAY STE 1500

City: DALLAS **State:** TX

Phone: (972) 371-5448

Email address: nicky.fitzgerald@matadorresources.com

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: CWALLS@BLM.GOV

Disposition: Approved

Disposition Date: 09/30/2025

Signature: Chris Walls

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool or Exploratory Area

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect ofthis form to U.S. Department ofthe Interior, Bureau ofLand Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SWSE / 200 FSL / 1710 FEL / TWSP: 25S / RANGE: 36E / SECTION: 22 / LAT: 32.1091419 / LONG: -103.2501764 (TVD: 0 feet, MD: 0 feet)

PPP: SWSE / 100 FSL / 1651 FEL / TWSP: 25S / RANGE: 36E / SECTION: 22 / LAT: 32.1088675 / LONG: -103.2512905 (TVD: 10700 feet, MD: 11279 feet)

BHL: NWNE / 110 FNL / 1651 FEL / TWSP: 25S / RANGE: 36E / SECTION: 15 / LAT: 32.1374737 / LONG: -103.2512627 (TVD: 10700 feet, MD: 21341 feet)

Raes Creek 25 36 22 Fed Com 095H
SHL: 200' FSL & 1710' FEL Section 22
BHL: 110' FNL & 333' FEL Section 15
Township/Range: 25S 36E
Elevation Above Sea Level: 3053

Sundry Request

Matador request the option to amend the well design of the Raes Creek 25 36 22 Fed Com 095H and make the following changes to the current APD:

- Change the well target from 10700' to 14330' TVD
- Modify casing and hole as shown on the casing and cement table
- Add a 8.75" pilot hole to 14772' TVD

Drilling Operation Plan

Proposed Drilling Depth: 24578' MD / 14330' TVD

Type of well: Horizontal well, with pilot hole to 14772 ' MD / 14677' TVD

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.1087275 N / -103.2455681 W
TD Lat/Long (NAD83): 32.1373121 N / -103.2455401 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	1,269	1,269	424	Anhydrite	Barren
Salado (Top of Salt)	1,693	1,693	1,508	Salt	Barren
Tansil/Capitan	3,201	3,201	2,086	Salt	Barren
Bell Canyon	5,306	5,287	153	Sandstone	Oil/Natural Gas
Cherry Canyon	5,460	5,440	935	Sandstone	Oil/Natural Gas
Brushy Canyon	6,404	6,375	801	Sandstone	Oil/Natural Gas
Bone Spring Lime	7,213	7,176	390	Limestone	Oil/Natural Gas
Avalon Shale	7,607	7,566	103	Sandstone	Oil/Natural Gas
Avalon Carb	7,711	7,669	1,231	Carbonate	Oil/Natural Gas
1st Bone Spring Sand	8,954	8,900	71	Sandstone	Oil/Natural Gas
2nd Bone Spring Carb	9,026	8,971	320	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	9,349	9,291	37	Sandstone	Oil/Natural Gas
3rd Bone Spring Carb	9,386	9,328	1,227	Carbonate	Oil/Natural Gas
3rd Bone Spring Sand	10,626	10,555	196	Sandstone	Oil/Natural Gas
Wolfcamp A	10,824	10,751	334	Shale	Oil/Natural Gas
Wolfcamp B	11,161	11,085	1,110	Shale	Oil/Natural Gas
Morrow	12,282	12,195	1,368	Shale	Oil/Natural Gas
Barnett	13,658	13,563	212	Shale	Oil/Natural Gas
KOP	**13852**	**13757**	**-**	**Shale**	**Oil/Natural Gas**
Miss Lime	13,870	13,775	325	Limestone	Oil/Natural Gas
Woodford	14,195	14,100	400	Shale	Oil/Natural Gas
TD	**24,578**	**14,330**		**Shale**	**Oil/Natural Gas**
Devonian	14,595	14,500		Carbonate	Oil/Natural Gas

2. Notable Zones

All perforations will be within the setback requirements as prescribed or permitted by the New Mexico Oil Conservation Division. OSE estimated ground water depth at this location is 240.

3. Pressure Control

Equipment
A 2M annular will be utilized below Surface casing to TD of Intermediate 1 hole section.

A 18,000' 10,000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and one annular preventer will be utilized below Intermediate 1 casing to TD. See attachments for BOP and choke manifold diagrams.
An accumulator complying with Title 43 CFR 3172 requirements for the pressure rating of the BOP stack will be present. A rotating head will also be installed as needed.

Testing Procedure

BOP will be inspected and operated as required in Title 43 CFR 3172. Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position.

A third party company will test the BOPs.

After setting Surface casing, a minimum 2M annular system will be installed. Test pressures will be 250 psi low and 1000 psi high before drilling below Surface casing shoe.

After setting Intermediate 1 casing, a minimum 10M BOPE system will be installed. Test pressures will be 250 psi low and 10,000 psi high with the annular preventer being tested to 250 psi low and 3500 psi high, as per IM No. NM-2017-008, before drilling below surface shoe. A well control drill will be performed weekly per crew and recorded in the daily drilling log. In the event that the rig drills multiple wells on the pad and any seal subject to test pressures are broken, a full BOP test will be performed when the rig returns and the 10M BOPE system is re-installed.

Variance Request
Matador requests a variance to have the option of running a multi-bowl wellhead assembly for setting the Intermediate 1, Intermediate 2, and Production Strings. The BOPs will not be tested again unless any flanges are separated.

Matador requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. If the specific hose is not available, then one of equal or higher rating will be used.

Matador requests a variance to have the option of batch drilling this well with other wells on the same pad. In the event that this well is batch drilled, the wellbore will be secured with a blind flange of like pressure. When the rig returns to this well and BOPs are installed, the operator will perform a full BOP test.

Matador requests a variance to drill this well using a 5M annular preventer with a 10M BOP ram stack. The “Well Control Plan For 10M MASP Section of Wellbore” is attached.

Matador request the option to offline cement surface casing. The “Offline Cement Procedure - Surface Casing” is attached for review. No changes in cement program are necessary.

Matador request the option to offline cement intermediate casing. The “Offline Cementing - Intermediate Casing" Procedure is attached for review. No changes in cement program are necessary.

Matador request the option to break test the BOP during batch drilling operations. The "Modified BOP Testing Procedure for Batch Drilling" Procedure is attached for review.

4. Casing & Cement

All casing will be API and new. See attached casing assumption worksheet.

String	Hole Size	Set MD (ft)	Set TVD (ft)	Casing Size	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	26	0 - 1339	0 - 1339	20	94	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	17.5	0 - 5356	0 - 5337	13.375	68	L-80	BUTT	1.125	1.125	1.8
Intermediate 2	12.25	0 - 11211	0 - 11135	9.625	40	P-110HC	BUTT	1.125	1.125	1.8
Liner	8.75	10711 - 14762	10635 - 14677	7.625	29.7	P-110EC	TLW-FJ	1.125	1.125	1.8
Production	6.75	0 - 24578	0 - 14330	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

- All casing strings will be tested in accordance with Title 43 CFR 3172.7(b)(8)
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed

- All non-API joint connections will be of like or greater quality, and as run specification sheets will be on location for review

Variance Request
Matador request a variance to wave the centralizer requirement for the 7-5/8" casing and the 5-1/2" SF/Flush casing in the 6-3/4" hole.

If a DV tool is used, depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above the current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review. Option to cancel 2nd stage cement if cement is circulated on 1st stage.

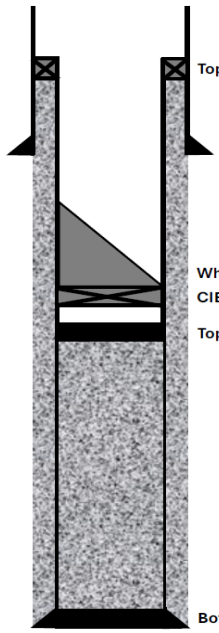
Primary Cement Design - DV/Packer 2-Stage Cement

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent	Top of	Class	Blend
Surface	Lead	1360	1.72	2345	13.5	50%	0	C	5% NaCl + LCM
	Tail	550	1.38	757	14.8	50%	1039	C	5% NaCl + LCM
Intermediate 1 w/ DV @ 1743'	Stg 2 Tail	530	1.78	942	13.5	10%	0	C	5% NaCl + LCM
	Stg 1 Lead	1060	1.84	1951	12.5	35%	0	C	5% NaCl + LCM
	Stg 1 Tail	340	1.33	457	13.2	35%	4356	C	5% NaCl + LCM
Intermediate 2 w/ DV @ 5406'	Stg 2 Tail	1020	1.78	1814	13.5	10%	0	C	5% NaCl + LCM
	Stg 1 Lead	580	3.66	2120	10.3	35%	5156	A/C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Stg 1 Tail	330	1.38	457	13.2	35%	10211	A/C	5% NaCl + LCM
Liner	Plug	160	1.35	222	13.2	0%	13900	H	Fluid Loss + Dispersant + Retarder
	Tail	290	1.35	392	13.2	25%	10711	H	Fluid Loss + Dispersant + Retarder
Production	Tail	930	1.35	1259	13.2	25%	11011	A/C	Fluid Loss + Dispersant + Retarder

Pilot Hole Program

The 8.75" pilot hole will be drilled to ~14,772' MD and then cased and cemented. A cement plug will be put in place inside the liner from ~14,762' to ~13,900', then a cased hole whipstock will be set at ~13,700' MD to mill a window in the casing for the 6.75" production section.

Raes Creek Fed Com #095H – Plug Back Design



Casing Configuration

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Intermediate 2	12.25	0 - 11211	0 - 11135	9.625	40	P-110HC	BUTT	1.125	1.125	1.8
Liner	8.75	10711 - 14762	10635 - 14677	7.625	29.7	P-110EC	TLW-FJ	1.125	1.125	1.8

Cement Configuration

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement (ft)	Class	Blend
Liner	Plug	160	1.35	222	13.2	0%	13900	H	Fluid Loss + Dispersant + Retarder
	Tail	290	1.35	392	13.2	25%	10711	H	Fluid Loss + Dispersant + Retarder

5. Mud Program

An electronic Pason mud monitoring system complying with Title 43 CFR 3172 will be used. All necessary mud products (barite, bentonite, LCM) for weight addition and fluid loss control will be on location at all times. Mud program is subject to change due to hole conditions.

Hole Section	Hole Size	Mud Type	Interval MD (ft)	Density	Viscosity	Fluid Loss
Surface	26	Spud Mud	0 - 1339	8.3 - 8.8	28-30	NC
Intermediate 1	17.5	Brine	1339 - 5356	9.8 - 10.2	28-30	NC
Intermediate 2	12.25	Cut Brine	5356 - 11211	8.8 - 9.6	28-30	NC
Pilot Hole	8.75	OBM/Cut Brine	11211 - 14762	11 - 14.8	50-65	<20
Production	6.75	OBM/Cut Brine	13852 - 24578	11 - 15	50-65	<20

6. Cores, Test, & Logs

No core or drill stem test is planned.

Electric logs are planned at this time. GR will be collected through the MWD tools from Intermediate casing to TD. CBL with CCL will be run as far as gravity will let it fall to top of curve.

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Bottom hole pressure is 11177 psi. Maximum anticipated surface pressure is 8025 psi. Expected bottom hole temperature is 213 F.

In accordance with Title 43 CFR 3176, Matador does not anticipate that there will be enough H2S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of an "H2S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H2S safety package on all wells, attached is an "H2S Drilling Operations Plan". Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MATADOR PRODUCTION COMPANY
WELL NAME & NO.:	RAE'S CREEK 25 36 22 FED COM 095H
APD ID:	10400089860
LOCATION:	Section 22, T.25 S., R.36 E. NMP.
COUNTY:	Lea County, New Mexico

COA

H_2S	○ No		◉ Yes	
Potash / WIPP	◉ None	○ Secretary	○ R-111-Q	☐ Open Annulus ☐ WIPP
Cave / Karst	◉ Low	○ Medium	○ High	○ Critical
Wellhead	○ Conventional	◉ Multibowl	○ Both	○ Diverter
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	☑ DV Tool
Special Req	☑ Capitan Reef	☐ Water Disposal	☑ COM	☐ Unit
Waste Prev.	○ Self-Certification	○ Waste Min. Plan	◉ APD Submitted prior to 06/10/2024	
Additional Language	☑ Flex Hose ☐ Four-String	☐ Casing Clearance ☑ Offline Cementing	☑ Pilot Hole ☑ Fluid-Filled	☑ Break Testing

SEE ORIGINAL COA FOR ALL OTHER REQUIREMENTS.

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H_2S) Drilling Plan shall be activated **AT SPUD**. As a result, the Hydrogen Sulfide area must meet **43 CFR 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING DESIGN

1. The **20** inch surface casing shall be set at approximately **1339 ft.** (a minimum of 70 feet into the Rustler Anhydrite, below usable water and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 ft. above the salt.**
   a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
   b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8**

hours or **500 psi compressive strength**, whichever is greater. (This is to include the lead cement)

c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The **13-3/8 inch,** 1st intermediate casing shall be set in a competent bed at approximately **5,356 ft.** The minimum required fill of cement behind the **13-3/8** inch intermediate casing is:

Option 1 (Single stage): Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **Capitan Reef**.

Option 2 (Two-stage): Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- **Second stage above DV tool: Cement to surface.** If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **Capitan Reef**.

Note: Cement volume is insufficient. More cement will be needed.

Note: The 1st intermediate casing must be kept fluid-filled to satisfy BLM's minimum safety factor requirement against collapse.

❖ In Capitan Reef Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

❖ **Special Capitan Reef Requirement:** Ensure freshwater based mud is used across the Capitan interval.

3. The **9-5/8 inch,** 2nd intermediate casing shall be set at approximately **11,211 ft.** (11,135 ft. TVD) The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

Option 1 (Single Stage): Cement should tie-back at least **50 feet** above the Capitan Reef top **or 200 feet** into the previous casing, whichever is greater. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan reef.

Option 2 (Two-Stage): Operator has proposed a DV tool(s), the depth may be adjusted as long as the cement is changed proportionally. The DV tool(s) may be cancelled if cement circulates to surface on the first stage.

a. First stage to DV tool(s): Cement to circulate. If cement does not circulate off the DV tool(s), contact the appropriate BLM office before proceeding with second stage cement job.

b. Second stage above DV tool(s): Cement should tie-back at least **50 feet** above the Capitan Reef top **or 200 feet** into the previous casing, whichever is greater. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan reef.

Note: The 2nd intermediate casing must be kept fluid-filled to satisfy BLM's minimum safety factor requirement against collapse.

4. Operator has proposed to use **7-5/8 inch pilot hole liner** with liner top at approximately **10,711 ft.** and liner shoe at 14,762 ft. (14677 ft. TVD). The minimum required fill of cement behind the **7-5/8 in.** production casing is:

- Cement should tie-back **at least 200 feet** into 2nd intermediate casing string. Operator shall provide method of verification.

Note: Excess cement is below 25%. More cement might be needed.

Note: The 8.75" pilot hole will be drilled to ~14,772' MD and then cased and cemented. A cement plug will be put in place inside the liner from ~14,762' to ~13,900', then a cased hole whipstock will be set at ~13,700' MD to mill a window in the casing for the 6.75" production section.

5. Operator has proposed to set **5-1/2 inch** production casing at approximately **24,578 ft.** (14,330 ft. TVD). The minimum required fill of cement behind the **5-1/2 in.** production casing is:

- Cement should tie-back **at least 200 feet** into previous casing string. Operator shall provide method of verification.

Note: Excess cement is below 25%. More cement will be needed.

Offline Cementing

Operator has been **(Approved)** to pump the proposed cement program offline in the **Surface and intermediate(s) intervals**. Offline cementing should commence within 24 hours of landing the casing for the interval. Notify the BLM 4hrs prior to the commencement of any offline cementing procedure at **Lea County: 575-689-5981**.

Pilot Hole Plugging

The pilot hole plugging procedure is approved as written, with the modification that more cement will be needed to have the inside plug from 14,762 ft. to 13,900 ft. Please adjust the cement volume accordingly. Note plug tops on subsequent drilling report. The BLM is to be contacted 24 hours prior to the commencement of any plugging operations (575-689-5981 Lea County) and when tagging the plugs.

- Mud Requirement: Mud shall be placed between all or below plugs. Minimum consistency of plugging mud shall be obtained by mixing at a rate of 25 sacks (50 pounds each) of gel per 100 barrels of **brine** water. Minimum nine (9) pounds per gallon.

- Cement requirement: Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

- Subsequent Plugging Reporting: Within 30 days after plugging work is completed, submit an SR sundry to the BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date pilot hole was plugged and tagged.**

C. PRESSURE CONTROL

1. Variance approved to use **flex line** from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).

2. Operator has proposed a **multi-bowl wellhead** assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5M annular preventer with 10M BOP/BOPE.** The BOP/BOPE and annular preventer shall be pressure-tested in accordance with **title 43 CFR 3172.**

a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
c. Manufacturer representative shall install the test plug for the initial BOP test.

d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
e. Whenever any seal subject to test pressure is broken, all the tests in the **title 43 CFR 3172.6(b)(9)** must be followed.

BOPE Break Testing Variance

- Break testing has been approved for this well ONLY on those intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per title 43 CFR 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.

- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

a. Spudding well (minimum of 24 hours)
b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
c. BOPE tests (minimum of 4 hours)

Contact Lea County Petroleum Engineering Inspection Staff:
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981.

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      i. Notify the BLM when moving in and removing the Spudder Rig.
      ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the doghouse or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
    i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    iii. Manufacturer representative shall install the test plug for the initial BOP test.
    iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
    v. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
    i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float

does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (Only applies to single stage cement jobs, prior to the cement setting up.)

iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

iv. The test shall be run on a 5000-psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one-hour chart. A circular chart shall have a maximum 2-hour clock. If a twelve hour or twenty-four-hour chart is used, tester shall make a notation that it is run with a two hour clock.

v. The results of the test shall be reported to the appropriate BLM office.

vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

vii. The BOP/BOPE test shall include a low-pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

SA 09/30/2025

Raes Creek 25 36 22 Fed Com 095H
SHL: 200' FSL & 1710' FEL Section 22
BHL: 110' FNL & 333' FEL Section 15
Township/Range: 25S 36E
Elevation Above Sea Level: 3053

Sundry Request

Matador request the option to amend the well design of the Raes Creek 25 36 22 Fed Com 095H and make the following changes to the current APD:

- Change the well target from 10700' to 14330' TVD
- Modify casing and hole as shown on the casing and cement table
- Add a 8.75" pilot hole to 14772' TVD

Drilling Operation Plan

Proposed Drilling Depth: 24578' MD / 14330' TVD

Type of well: Horizontal well, with pilot hole to 14772 ' MD / 14677' TVD

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.1087275 N / -103.2455681 W
TD Lat/Long (NAD83): 32.1373121 N / -103.2455401 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	1,269	1,269	424	Anhydrite	Barren
Salado (Top of Salt)	1,693	1,693	1,508	Salt	Barren
Tansil/Capitan	3,201	3,201	2,086	Salt	Barren
Bell Canyon	5,306	5,287	153	Sandstone	Oil/Natural Gas
Cherry Canyon	5,460	5,440	935	Sandstone	Oil/Natural Gas
Brushy Canyon	6,404	6,375	801	Sandstone	Oil/Natural Gas
Bone Spring Lime	7,213	7,176	390	Limestone	Oil/Natural Gas
Avalon Shale	7,607	7,566	103	Sandstone	Oil/Natural Gas
Avalon Carb	7,711	7,669	1,231	Carbonate	Oil/Natural Gas
1st Bone Spring Sand	8,954	8,900	71	Sandstone	Oil/Natural Gas
2nd Bone Spring Carb	9,026	8,971	320	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	9,349	9,291	37	Sandstone	Oil/Natural Gas
3rd Bone Spring Carb	9,386	9,328	1,227	Carbonate	Oil/Natural Gas
3rd Bone Spring Sand	10,626	10,555	196	Sandstone	Oil/Natural Gas
Wolfcamp A	10,824	10,751	334	Shale	Oil/Natural Gas
Wolfcamp B	11,161	11,085	1,110	Shale	Oil/Natural Gas
Morrow	12,282	12,195	1,368	Shale	Oil/Natural Gas
Barnett	13,658	13,563	212	Shale	Oil/Natural Gas
KOP	**13852**	**13757**	**-**	**Shale**	**Oil/Natural Gas**
Miss Lime	13,870	13,775	325	Limestone	Oil/Natural Gas
Woodford	14,195	14,100	400	Shale	Oil/Natural Gas
TD	**24,578**	**14,330**		**Shale**	**Oil/Natural Gas**
Devonian	14,595	14,500		Carbonate	Oil/Natural Gas

2. Notable Zones

All perforations will be within the setback requirements as prescribed or permitted by the New Mexico Oil Conservation Division. OSE estimated ground water depth at this location is 240.

3. Pressure Control

Equipment
A 2M annular will be utilized below Surface casing to TD of Intermediate 1 hole section.

A 18,000' 10,000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and one annular preventer will be utilized below Intermediate 1 casing to TD. See attachments for BOP and choke manifold diagrams.
An accumulator complying with Title 43 CFR 3172 requirements for the pressure rating of the BOP stack will be present. A rotating head will also be installed as needed.

Testing Procedure

BOP will be inspected and operated as required in Title 43 CFR 3172. Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position.

A third party company will test the BOPs.

After setting Surface casing, a minimum 2M annular system will be installed. Test pressures will be 250 psi low and 1000 psi high before drilling below Surface casing shoe.

After setting Intermediate 1 casing, a minimum 10M BOPE system will be installed. Test pressures will be 250 psi low and 10,000 psi high with the annular preventer being tested to 250 psi low and 3500 psi high, as per IM No. NM-2017-008, before drilling below surface shoe. A well control drill will be performed weekly per crew and recorded in the daily drilling log. In the event that the rig drills multiple wells on the pad and any seal subject to test pressures are broken, a full BOP test will be performed when the rig returns and the 10M BOPE system is re-installed.

Variance Request
Matador requests a variance to have the option of running a multi-bowl wellhead assembly for setting the Intermediate 1, Intermediate 2, and Production Strings. The BOPs will not be tested again unless any flanges are separated.

Matador requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. If the specific hose is not available, then one of equal or higher rating will be used.

Matador requests a variance to have the option of batch drilling this well with other wells on the same pad. In the event that this well is batch drilled, the wellbore will be secured with a blind flange of like pressure. When the rig returns to this well and BOPs are installed, the operator will perform a full BOP test.

Matador requests a variance to drill this well using a 5M annular preventer with a 10M BOP ram stack. The “Well Control Plan For 10M MASP Section of Wellbore” is attached.

Matador request the option to offline cement surface casing. The “Offline Cement Procedure - Surface Casing” is attached for review. No changes in cement program are necessary.

Matador request the option to offline cement intermediate casing. The “Offline Cementing - Intermediate Casing" Procedure is attached for review. No changes in cement program are necessary.

Matador request the option to break test the BOP during batch drilling operations. The "Modified BOP Testing Procedure for Batch Drilling" Procedure is attached for review.

4. Casing & Cement

All casing will be API and new. See attached casing assumption worksheet.

String	Hole Size	Set MD (ft)	Set TVD (ft)	Casing Size	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	26	0 - 1339	0 - 1339	20	94	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	17.5	0 - 5356	0 - 5337	13.375	68	L-80	BUTT	1.125	1.125	1.8
Intermediate 2	12.25	0 - 11211	0 - 11135	9.625	40	P-110HC	BUTT	1.125	1.125	1.8
Liner	8.75	10711 - 14762	10635 - 14677	7.625	29.7	P-110EC	TLW-FJ	1.125	1.125	1.8
Production	6.75	0 - 24578	0 - 14330	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

- All casing strings will be tested in accordance with Title 43 CFR 3172.7(b)(8)
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed

- All non-API joint connections will be of like or greater quality, and as run specification sheets will be on location for review

Variance Request
Matador request a variance to wave the centralizer requirement for the 7-5/8" casing and the 5-1/2" SF/Flush casing in the 6-3/4" hole.

If a DV tool is used, depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above the current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review. Option to cancel 2nd stage cement if cement is circulated on 1st stage.

Primary Cement Design - DV/Packer 2-Stage Cement

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent	Top of	Class	Blend
Surface	Lead	1360	1.72	2345	13.5	50%	0	C	5% NaCl + LCM
	Tail	550	1.38	757	14.8	50%	1039	C	5% NaCl + LCM
Intermediate 1 w/ DV @ 1743'	Stg 2 Tail	530	1.78	942	13.5	10%	0	C	5% NaCl + LCM
	Stg 1 Lead	1060	1.84	1951	12.5	35%	0	C	5% NaCl + LCM
	Stg 1 Tail	340	1.33	457	13.2	35%	4356	C	5% NaCl + LCM
Intermediate 2 w/ DV @ 5406'	Stg 2 Tail	1020	1.78	1814	13.5	10%	0	C	5% NaCl + LCM
	Stg 1 Lead	580	3.66	2120	10.3	35%	5156	A/C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Stg 1 Tail	330	1.38	457	13.2	35%	10211	A/C	5% NaCl + LCM
Liner	Tail	290	1.35	392	13.2	25%	10711	A/C	Fluid Loss + Dispersant + Retarder
Production	Tail	930	1.35	1259	13.2	25%	11011	A/C	Fluid Loss + Dispersant + Retarder

Pilot Hole Program
The 8.75" pilot hole will be drilled to ~14,772' MD and then cased and cemented. A cased hole whipstock will be set at ~13,700' MD to mill a window in the casing for the 6.75" production section.

5. Mud Program

An electronic Pason mud monitoring system complying with Title 43 CFR 3172 will be used. All necessary mud products (barite, bentonite, LCM) for weight addition and fluid loss control will be on location at all times. Mud program is subject to change due to hole conditions.

Hole Section	Hole Size	Mud Type	Interval MD (ft)	Density	Viscosity	Fluid Loss
Surface	26	Spud Mud	0 - 1339	8.3 - 8.8	28-30	NC
Intermediate 1	17.5	Brine	1339 - 5356	9.8 - 10.2	28-30	NC
Intermediate 2	12.25	Cut Brine	5356 - 11211	8.8 - 9.6	28-30	NC
Pilot Hole	8.75	OBM/Cut Brine	11211 - 14762	11 - 14.8	50-65	<20
Production	6.75	OBM/Cut Brine	13852 - 24578	11 - 15	50-65	<20

6. Cores, Test, & Logs

No core or drill stem test is planned.

Electric logs are planned at this time. GR will be collected through the MWD tools from Intermediate casing to TD. CBL with CCL will be run as far as gravity will let it fall to top of curve.

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Bottom hole pressure is 11177 psi. Maximum anticipated surface pressure is 8025 psi. Expected bottom hole temperature is 213 F.

In accordance with Title 43 CFR 3176, Matador does not anticipate that there will be enough H2S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of an "H2S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H2S safety package on all wells, attached is an "H2S Drilling Operations Plan". Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

Matador Production Company

Antelope Ridge
Rae's Creek
Rae's Creek 25 36 22 Fed Com #095H

Pilot Hole

Plan: BLM Plan #1

Standard Planning Report

18 July, 2025

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rae's Creek 25 36 22 Fed Com #095H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3080.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3080.5usft
Site:	Rae's Creek	**North Reference:**	Grid
Well:	Rae's Creek 25 36 22 Fed Com #095H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot Hole		
Design:	BLM Plan #1		

Project Antelope Ridge

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 Rae's Creek

Site Position:		**Northing:**	405,069.29 usft	**Latitude:**	32° 6' 32.453 N
From:	Lat/Long	**Easting:**	835,545.96 usft	**Longitude:**	103° 14' 58.749 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.58 °

Well Rae's Creek 25 36 22 Fed Com #095H

Well Position	**+N/-S**	0.4 usft	**Northing:**	405,069.66 usft	**Latitude:**	32° 6' 32.454 N
	+E/-W	30.0 usft	**Easting:**	835,575.94 usft	**Longitude:**	103° 14' 58.401 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,053.0 usft

Wellbore Pilot Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/31/2024	5.96	59.90	47,130.73026456

Design BLM 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	359.47

Plan Survey Tool Program **Date** 7/11/2025

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	14,772.1	BLM Plan #1 (Pilot Hole)	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	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,533.3	8.00	95.66	3,531.6	-3.7	37.0	1.50	1.50	0.00	95.66	
12,949.4	8.00	95.66	12,856.1	-133.0	1,341.1	0.00	0.00	0.00	0.00	
13,482.8	0.00	0.00	13,387.7	-136.7	1,378.1	1.50	-1.50	0.00	180.00	
13,852.1	0.00	0.00	13,757.0	-136.7	1,378.1	0.00	0.00	0.00	0.00	KOP - Rae's Creek 25
14,772.1	0.00	0.00	14,677.0	-136.7	1,378.1	0.00	0.00	0.00	0.00	

Planning Report

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Site:	Rae's Creek	**North Reference:**	Grid
Well:	Rae's Creek 25 36 22 Fed Com #095H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot Hole		
Design:	BLM 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
1,269.0	0.00	0.00	1,269.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,693.0	0.00	0.00	1,693.0	0.0	0.0	0.0	0.00	0.00	0.00
Salado									
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 1.50									
3,100.0	1.50	95.66	3,100.0	-0.1	1.3	-0.1	1.50	1.50	0.00
3,200.0	3.00	95.66	3,199.9	-0.5	5.2	-0.6	1.50	1.50	0.00
3,201.1	3.02	95.66	3,201.0	-0.5	5.3	-0.6	1.50	1.50	0.00
Tansill/Capitan									
3,300.0	4.50	95.66	3,299.7	-1.2	11.7	-1.3	1.50	1.50	0.00
3,400.0	6.00	95.66	3,399.3	-2.1	20.8	-2.3	1.50	1.50	0.00
3,500.0	7.50	95.66	3,498.6	-3.2	32.5	-3.5	1.50	1.50	0.00
3,533.3	8.00	95.66	3,531.6	-3.7	37.0	-4.0	1.50	1.50	0.00
Start 9416.1 hold at 3533.3 MD									
3,600.0	8.00	95.66	3,597.6	-4.6	46.2	-5.0	0.00	0.00	0.00
3,700.0	8.00	95.66	3,696.6	-6.0	60.1	-6.5	0.00	0.00	0.00
3,800.0	8.00	95.66	3,795.7	-7.3	73.9	-8.0	0.00	0.00	0.00
3,900.0	8.00	95.66	3,894.7	-8.7	87.8	-9.5	0.00	0.00	0.00
4,000.0	8.00	95.66	3,993.7	-10.1	101.6	-11.0	0.00	0.00	0.00
4,100.0	8.00	95.66	4,092.8	-11.5	115.5	-12.5	0.00	0.00	0.00
4,200.0	8.00	95.66	4,191.8	-12.8	129.3	-14.0	0.00	0.00	0.00
4,300.0	8.00	95.66	4,290.8	-14.2	143.2	-15.5	0.00	0.00	0.00

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Project:	Antelope Ridge	**MD Reference:**	KB @ 3080.5usft
Site:	Rae's Creek	**North Reference:**	Grid
Well:	Rae's Creek 25 36 22 Fed Com #095H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot Hole		
Design:	BLM 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)
4,400.0	8.00	95.66	4,389.8	-15.6	157.0	-17.0	0.00	0.00	0.00
4,500.0	8.00	95.66	4,488.9	-16.9	170.9	-18.5	0.00	0.00	0.00
4,600.0	8.00	95.66	4,587.9	-18.3	184.7	-20.0	0.00	0.00	0.00
4,700.0	8.00	95.66	4,686.9	-19.7	198.6	-21.5	0.00	0.00	0.00
4,800.0	8.00	95.66	4,785.9	-21.1	212.4	-23.0	0.00	0.00	0.00
4,900.0	8.00	95.66	4,885.0	-22.4	226.3	-24.5	0.00	0.00	0.00
5,000.0	8.00	95.66	4,984.0	-23.8	240.1	-26.0	0.00	0.00	0.00
5,100.0	8.00	95.66	5,083.0	-25.2	254.0	-27.5	0.00	0.00	0.00
5,200.0	8.00	95.66	5,182.0	-26.6	267.8	-29.0	0.00	0.00	0.00
5,300.0	8.00	95.66	5,281.1	-27.9	281.7	-30.5	0.00	0.00	0.00
5,306.0	8.00	95.66	5,287.0	-28.0	282.5	-30.6	0.00	0.00	0.00
G26: Bell Cyn.									
5,400.0	8.00	95.66	5,380.1	-29.3	295.5	-32.0	0.00	0.00	0.00
5,460.5	8.00	95.66	5,440.0	-30.1	303.9	-32.9	0.00	0.00	0.00
G13: Cherry Cyn.									
5,500.0	8.00	95.66	5,479.1	-30.7	309.4	-33.5	0.00	0.00	0.00
5,600.0	8.00	95.66	5,578.2	-32.1	323.2	-35.0	0.00	0.00	0.00
5,700.0	8.00	95.66	5,677.2	-33.4	337.1	-36.5	0.00	0.00	0.00
5,800.0	8.00	95.66	5,776.2	-34.8	350.9	-38.0	0.00	0.00	0.00
5,900.0	8.00	95.66	5,875.2	-36.2	364.8	-39.5	0.00	0.00	0.00
6,000.0	8.00	95.66	5,974.3	-37.5	378.6	-41.0	0.00	0.00	0.00
6,100.0	8.00	95.66	6,073.3	-38.9	392.5	-42.5	0.00	0.00	0.00
6,200.0	8.00	95.66	6,172.3	-40.3	406.3	-44.1	0.00	0.00	0.00
6,300.0	8.00	95.66	6,271.3	-41.7	420.2	-45.6	0.00	0.00	0.00
6,400.0	8.00	95.66	6,370.4	-43.0	434.0	-47.1	0.00	0.00	0.00
6,404.7	8.00	95.66	6,375.0	-43.1	434.7	-47.1	0.00	0.00	0.00
G7: Brushy Cyn.									
6,500.0	8.00	95.66	6,469.4	-44.4	447.9	-48.6	0.00	0.00	0.00
6,600.0	8.00	95.66	6,568.4	-45.8	461.7	-50.1	0.00	0.00	0.00
6,700.0	8.00	95.66	6,667.5	-47.2	475.6	-51.6	0.00	0.00	0.00
6,800.0	8.00	95.66	6,766.5	-48.5	489.4	-53.1	0.00	0.00	0.00
6,900.0	8.00	95.66	6,865.5	-49.9	503.3	-54.6	0.00	0.00	0.00
7,000.0	8.00	95.66	6,964.5	-51.3	517.1	-56.1	0.00	0.00	0.00
7,100.0	8.00	95.66	7,063.6	-52.7	531.0	-57.6	0.00	0.00	0.00
7,200.0	8.00	95.66	7,162.6	-54.0	544.8	-59.1	0.00	0.00	0.00
7,213.5	8.00	95.66	7,176.0	-54.2	546.7	-59.3	0.00	0.00	0.00
G4: BSGL (CS9)									
7,300.0	8.00	95.66	7,261.6	-55.4	558.7	-60.6	0.00	0.00	0.00
7,400.0	8.00	95.66	7,360.6	-56.8	572.5	-62.1	0.00	0.00	0.00
7,500.0	8.00	95.66	7,459.7	-58.1	586.4	-63.6	0.00	0.00	0.00
7,600.0	8.00	95.66	7,558.7	-59.5	600.2	-65.1	0.00	0.00	0.00
7,607.4	8.00	95.66	7,566.0	-59.6	601.2	-65.2	0.00	0.00	0.00
L8.2: U. Avalon Shale									
7,700.0	8.00	95.66	7,657.7	-60.9	614.0	-66.6	0.00	0.00	0.00
7,711.4	8.00	95.66	7,669.0	-61.1	615.6	-66.7	0.00	0.00	0.00
L6.3: Avalon Carb									
7,800.0	8.00	95.66	7,756.7	-62.3	627.9	-68.1	0.00	0.00	0.00
7,900.0	8.00	95.66	7,855.8	-63.6	641.7	-69.6	0.00	0.00	0.00
8,000.0	8.00	95.66	7,954.8	-65.0	655.6	-71.1	0.00	0.00	0.00
8,100.0	8.00	95.66	8,053.8	-66.4	669.4	-72.6	0.00	0.00	0.00
8,200.0	8.00	95.66	8,152.9	-67.8	683.3	-74.1	0.00	0.00	0.00
8,300.0	8.00	95.66	8,251.9	-69.1	697.1	-75.6	0.00	0.00	0.00
8,400.0	8.00	95.66	8,350.9	-70.5	711.0	-77.1	0.00	0.00	0.00

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8,500.0	8.00	95.66	8,449.9	-71.9	724.8	-78.6	0.00	0.00	0.00
8,600.0	8.00	95.66	8,549.0	-73.3	738.7	-80.1	0.00	0.00	0.00
8,700.0	8.00	95.66	8,648.0	-74.6	752.5	-81.6	0.00	0.00	0.00
8,800.0	8.00	95.66	8,747.0	-76.0	766.4	-83.1	0.00	0.00	0.00
8,900.0	8.00	95.66	8,846.0	-77.4	780.2	-84.6	0.00	0.00	0.00
8,954.5	8.00	95.66	8,900.0	-78.1	787.8	-85.4	0.00	0.00	0.00
L5.1: FBSG									
9,000.0	8.00	95.66	8,945.1	-78.8	794.1	-86.1	0.00	0.00	0.00
9,026.2	8.00	95.66	8,971.0	-79.1	797.7	-86.5	0.00	0.00	0.00
L4.3: SBSC									
9,100.0	8.00	95.66	9,044.1	-80.1	807.9	-87.6	0.00	0.00	0.00
9,200.0	8.00	95.66	9,143.1	-81.5	821.8	-89.1	0.00	0.00	0.00
9,300.0	8.00	95.66	9,242.1	-82.9	835.6	-90.6	0.00	0.00	0.00
9,349.9	8.00	95.66	9,291.6	-83.6	842.6	-91.3	0.00	0.00	0.00
L4.1: SBSG									
9,386.7	8.00	95.66	9,328.0	-84.1	847.6	-91.9	0.00	0.00	0.00
L3.3: TBSC									
9,400.0	8.00	95.66	9,341.2	-84.2	849.5	-92.1	0.00	0.00	0.00
9,500.0	8.00	95.66	9,440.2	-85.6	863.3	-93.6	0.00	0.00	0.00
9,600.0	8.00	95.66	9,539.2	-87.0	877.2	-95.1	0.00	0.00	0.00
9,700.0	8.00	95.66	9,638.3	-88.4	891.0	-96.6	0.00	0.00	0.00
9,800.0	8.00	95.66	9,737.3	-89.7	904.9	-98.1	0.00	0.00	0.00
9,900.0	8.00	95.66	9,836.3	-91.1	918.7	-99.6	0.00	0.00	0.00
10,000.0	8.00	95.66	9,935.3	-92.5	932.6	-101.1	0.00	0.00	0.00
10,100.0	8.00	95.66	10,034.4	-93.9	946.4	-102.6	0.00	0.00	0.00
10,200.0	8.00	95.66	10,133.4	-95.2	960.3	-104.1	0.00	0.00	0.00
10,300.0	8.00	95.66	10,232.4	-96.6	974.1	-105.6	0.00	0.00	0.00
10,400.0	8.00	95.66	10,331.4	-98.0	988.0	-107.1	0.00	0.00	0.00
10,500.0	8.00	95.66	10,430.5	-99.4	1,001.8	-108.6	0.00	0.00	0.00
10,600.0	8.00	95.66	10,529.5	-100.7	1,015.7	-110.1	0.00	0.00	0.00
10,626.4	8.00	95.66	10,555.6	-101.1	1,019.3	-110.5	0.00	0.00	0.00
L3.1: TBSG									
10,700.0	8.00	95.66	10,628.5	-102.1	1,029.5	-111.6	0.00	0.00	0.00
10,800.0	8.00	95.66	10,727.5	-103.5	1,043.4	-113.1	0.00	0.00	0.00
10,824.4	8.00	95.66	10,751.7	-103.8	1,046.8	-113.5	0.00	0.00	0.00
L2: WFMP A									
10,900.0	8.00	95.66	10,826.6	-104.8	1,057.2	-114.6	0.00	0.00	0.00
11,000.0	8.00	95.66	10,925.6	-106.2	1,071.1	-116.1	0.00	0.00	0.00
11,100.0	8.00	95.66	11,024.6	-107.6	1,084.9	-117.6	0.00	0.00	0.00
11,161.7	8.00	95.66	11,085.7	-108.4	1,093.5	-118.5	0.00	0.00	0.00
WFMP B									
11,200.0	8.00	95.66	11,123.7	-109.0	1,098.8	-119.1	0.00	0.00	0.00
11,300.0	8.00	95.66	11,222.7	-110.3	1,112.6	-120.6	0.00	0.00	0.00
11,400.0	8.00	95.66	11,321.7	-111.7	1,126.5	-122.1	0.00	0.00	0.00
11,500.0	8.00	95.66	11,420.7	-113.1	1,140.3	-123.6	0.00	0.00	0.00
11,600.0	8.00	95.66	11,519.8	-114.5	1,154.2	-125.1	0.00	0.00	0.00
11,700.0	8.00	95.66	11,618.8	-115.8	1,168.0	-126.6	0.00	0.00	0.00
11,800.0	8.00	95.66	11,717.8	-117.2	1,181.9	-128.1	0.00	0.00	0.00
11,900.0	8.00	95.66	11,816.8	-118.6	1,195.7	-129.6	0.00	0.00	0.00
12,000.0	8.00	95.66	11,915.9	-120.0	1,209.6	-131.1	0.00	0.00	0.00
12,100.0	8.00	95.66	12,014.9	-121.3	1,223.4	-132.6	0.00	0.00	0.00
12,200.0	8.00	95.66	12,113.9	-122.7	1,237.3	-134.1	0.00	0.00	0.00
12,282.5	8.00	95.66	12,195.6	-123.8	1,248.7	-135.4	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rae's Creek 25 36 22 Fed Com #095H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3080.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3080.5usft
Site:	Rae's Creek	**North Reference:**	Grid
Well:	Rae's Creek 25 36 22 Fed Com #095H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot Hole		
Design:	BLM 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)
Morrow									
12,300.0	8.00	95.66	12,213.0	-124.1	1,251.1	-135.6	0.00	0.00	0.00
12,400.0	8.00	95.66	12,312.0	-125.4	1,265.0	-137.1	0.00	0.00	0.00
12,500.0	8.00	95.66	12,411.0	-126.8	1,278.8	-138.6	0.00	0.00	0.00
12,600.0	8.00	95.66	12,510.0	-128.2	1,292.7	-140.1	0.00	0.00	0.00
12,700.0	8.00	95.66	12,609.1	-129.6	1,306.5	-141.6	0.00	0.00	0.00
12,800.0	8.00	95.66	12,708.1	-130.9	1,320.4	-143.1	0.00	0.00	0.00
12,900.0	8.00	95.66	12,807.1	-132.3	1,334.2	-144.7	0.00	0.00	0.00
12,949.4	8.00	95.66	12,856.1	-133.0	1,341.1	-145.4	0.00	0.00	0.00
Start Drop -1.50									
13,000.0	7.24	95.66	12,906.2	-133.7	1,347.7	-146.1	1.50	-1.50	0.00
13,100.0	5.74	95.66	13,005.5	-134.8	1,359.0	-147.3	1.50	-1.50	0.00
13,200.0	4.24	95.66	13,105.2	-135.6	1,367.6	-148.3	1.50	-1.50	0.00
13,300.0	2.74	95.66	13,205.0	-136.2	1,373.7	-148.9	1.50	-1.50	0.00
13,400.0	1.24	95.66	13,304.9	-136.6	1,377.2	-149.3	1.50	-1.50	0.00
13,482.8	0.00	0.00	13,387.7	-136.7	1,378.1	-149.4	1.50	-1.50	0.00
Start 369.3 hold at 13482.8 MD									
13,500.0	0.00	0.00	13,404.9	-136.7	1,378.1	-149.4	0.00	0.00	0.00
13,600.0	0.00	0.00	13,504.9	-136.7	1,378.1	-149.4	0.00	0.00	0.00
13,658.1	0.00	0.00	13,563.0	-136.7	1,378.1	-149.4	0.00	0.00	0.00
Barnett									
13,700.0	0.00	0.00	13,604.9	-136.7	1,378.1	-149.4	0.00	0.00	0.00
13,800.0	0.00	0.00	13,704.9	-136.7	1,378.1	-149.4	0.00	0.00	0.00
13,852.1	0.00	0.00	13,757.0	-136.7	1,378.1	-149.4	0.00	0.00	0.00
Start 920.0 hold at 13852.1 MD - KOP - Rae's Creek 25 36 22 Fed Com #095H									
13,870.8	0.00	0.00	13,775.7	-136.7	1,378.1	-149.4	0.00	0.00	0.00
Miss Lime									
13,900.0	0.00	0.00	13,804.9	-136.7	1,378.1	-149.4	0.00	0.00	0.00
14,000.0	0.00	0.00	13,904.9	-136.7	1,378.1	-149.4	0.00	0.00	0.00
14,100.0	0.00	0.00	14,004.9	-136.7	1,378.1	-149.4	0.00	0.00	0.00
14,195.1	0.00	0.00	14,100.0	-136.7	1,378.1	-149.4	0.00	0.00	0.00
WF									
14,200.0	0.00	0.00	14,104.9	-136.7	1,378.1	-149.4	0.00	0.00	0.00
14,300.0	0.00	0.00	14,204.9	-136.7	1,378.1	-149.4	0.00	0.00	0.00
14,400.0	0.00	0.00	14,304.9	-136.7	1,378.1	-149.4	0.00	0.00	0.00
14,424.1	0.00	0.00	14,329.0	-136.7	1,378.1	-149.4	0.00	0.00	0.00
BHL - Rae's Creek 25 36 22 Fed Com #095H									
14,500.0	0.00	0.00	14,404.9	-136.7	1,378.1	-149.4	0.00	0.00	0.00
14,595.1	0.00	0.00	14,500.0	-136.7	1,378.1	-149.4	0.00	0.00	0.00
Devonian									
14,600.0	0.00	0.00	14,504.9	-136.7	1,378.1	-149.4	0.00	0.00	0.00
14,700.0	0.00	0.00	14,604.9	-136.7	1,378.1	-149.4	0.00	0.00	0.00
14,772.1	0.00	0.00	14,677.0	-136.7	1,378.1	-149.4	0.00	0.00	0.00
TD at 14772.1									

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rae's Creek 25 36 22 Fed Com #095H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3080.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3080.5usft
Site:	Rae's Creek	**North Reference:**	Grid
Well:	Rae's Creek 25 36 22 Fed Com #095H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot Hole		
Design:	BLM 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 - Rae's Creek 25 3 - plan hits target center - Point	0.00	0.00	13,757.0	-136.7	1,378.1	404,933.00	836,954.00	32° 6' 30.964 N	103° 14' 42.397 W
BHL - Rae's Creek 25 3 - plan misses target center by 10399.4usft at 14424.1usft MD (14329.0 TVD, -136.7 N, 1378.1 E) - Point	0.00	0.00	14,329.0	10,262.3	1,283.1	415,332.00	836,859.00	32° 8' 13.869 N	103° 14' 42.281 W

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
148.0	148.0	30" Conductor Casing	30	36
1,339.0	1,339.0	20" Surface Casing	20	26
5,356.0	5,336.5	13 3/8" Intermediate Casing	13-3/8	17-1/2
11,211.0	11,134.6	9 5/8" Intermediate Casing	9-5/8	12-1/4
14,762.0	14,666.9	7 5/8" Intermediate Liner	7-5/8	8-3/4

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,269.0	1,269.0	Rustler			359.47
1,693.0	1,693.0	Salado			359.47
3,201.1	3,201.0	Tansill/Capitan			359.47
5,306.0	5,287.0	G26: Bell Cyn.			359.47
5,460.5	5,440.0	G13: Cherry Cyn.			359.47
6,404.7	6,375.0	G7: Brushy Cyn.			359.47
7,213.5	7,176.0	G4: BSGL (CS9)			359.47
7,607.4	7,566.0	L8.2: U. Avalon Shale			359.47
7,711.4	7,669.0	L6.3: Avalon Carb			359.47
8,954.5	8,900.0	L5.1: FBSG			359.47
9,026.2	8,971.0	L4.3: SBSC			359.47
9,349.9	9,291.6	L4.1: SBSG			359.47
9,386.7	9,328.0	L3.3: TBSC			359.47
10,626.4	10,555.6	L3.1: TBSG			359.47
10,824.4	10,751.7	L2: WFMP A			359.47
11,161.7	11,085.7	WFMP B			359.47
12,282.5	12,195.6	Morrow			359.47
13,658.1	13,563.0	Barnett			359.47
13,870.8	13,775.7	Miss Lime			359.47
14,195.1	14,100.0	WF			359.47
14,595.1	14,500.0	Devonian			359.47

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rae's Creek 25 36 22 Fed Com #095H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3080.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3080.5usft
Site:	Rae's Creek	**North Reference:**	Grid
Well:	Rae's Creek 25 36 22 Fed Com #095H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot Hole		
Design:	BLM Plan #1		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
3,000.0	3,000.0	0.0	0.0	Start Build 1.50
3,533.3	3,531.6	-3.7	37.0	Start 9416.1 hold at 3533.3 MD
12,949.4	12,856.1	-133.0	1,341.1	Start Drop -1.50
13,482.8	13,387.7	-136.7	1,378.1	Start 369.3 hold at 13482.8 MD
13,852.1	13,757.0	-136.7	1,378.1	Start 920.0 hold at 13852.1 MD
14,772.1	14,677.0	-136.7	1,378.1	TD at 14772.1

Modified BOP Testing Procedure for Batch Drilling

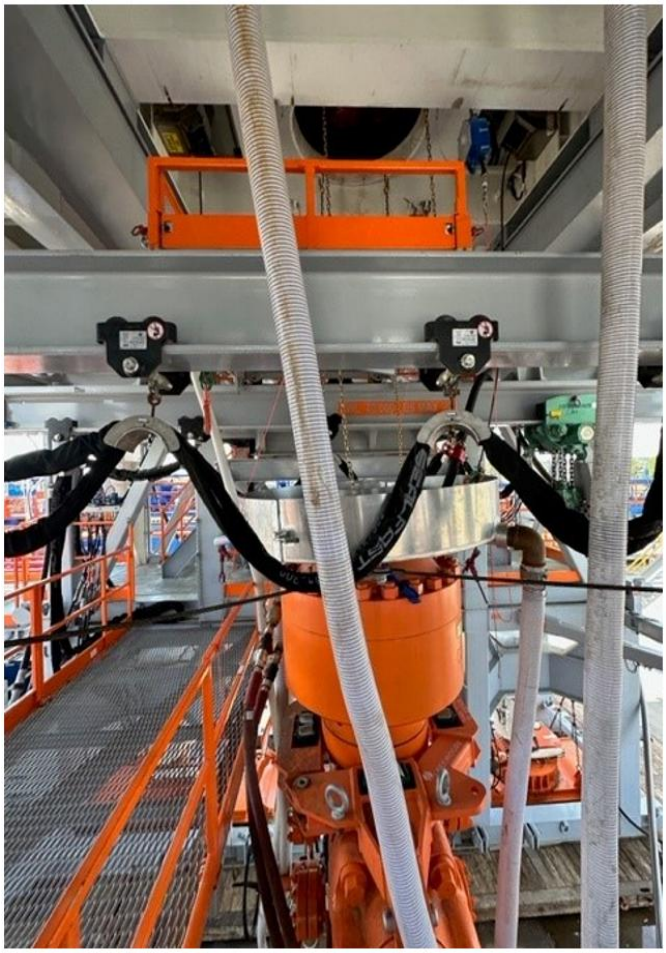
Raes Creek 25 36 22 Fed Com 095H **Township/Range: 25S 36E**
SHL: 200' FSL & 1710' FEL Section 22 **Elevation Above Sea Level: 3053'**

Matador Production Company requests a variance to allow break testing the Blowout Preventer Equipment (BOPE) as prudent in batch drilling operations. Matador requests a variance from 43 CFR 3172.6(b)(9)(iv)(C) to only test broken pressure seals on the BOPE during batch (skid) drilling operations with multiple wells on the same pad.

Justification

The Bureau of Land Management began issuing and revising Onshore Orders pertaining the exploration and development of oil and gas operations on federal onshore and Indian leases in 1983. These orders were later published in 1988, specifically OOGO No. 2 “Drilling Operations on Federal and Indian Oil and Gas Leases” was published November 18, 1988, and has since been the governing standard for over 30 years. This order was later codified in 43 CFR Subpart 3172 on June 16, 2023 with no substantive changes to the content. During which time, the oil and gas industry has seen significant advancements in technology and processes that facilitate safer and more efficient operations, some of those being improvements in rig and wellhead design. The improvements in rig design allow for the BOP stack to remain connected and intact while skidding and the changes in wellhead design complement this feature by utilizing quick connects from BOP to wellhead. The combination of these technologies allow for the rig to skid to the next well while only breaking two pressure sealing connections.

American Petroleum Institute (API) standards, specifications and recommended practices are considered an industry standard and are commonly referenced in 43 CFR 3172 and routinely used in APD COA’s. API Standard 53 “Well Control Equipment Systems for Drilling Wells” recognizes break testing as an acceptable practice during batch drilling operations, specifically in API Std 53 Section 5.3.7.1.



Figures 1 & 2: BOP winch system picture with walking capabilities.

Modified BOP Testing Procedure for Batch Drilling

With these enhancements to operations, Matador Production Company believes that break testing during batch drilling operations meets, and in most cases, exceeds the BLM's intent of 43 CFR 3172.6(b)(9)(iv)(C).

This variance request will be referenced and attached in all APDs seeking approval for break testing and will receive approval prior to implementing this variance.

Procedure

1. Matador Production Company will follow the below guidelines prior to implementing break testing variance:
   a. A full BOP test will be conducted on the first well on the pad.
      i. Full BOP test will be conducted every 21 days per API Std 53, which is above 43 CFR 3172.6(b)(9)(iv)(D) 30 day requirement.
      ii. Annular type preventers tested to 70% RWP per API Std 53, which is above 43 CFR 3172.6(b)(9)(iii) 50% requirement.
      iii. Full BOP test will be conducted prior to drilling out any production hole sections.
   b. The deepest first intermediate hole section will be drilled first.
      i. All subsequent intermediate hole sections will be at same depth or shallower.
      ii. The calculated maximum anticipated surface pressure (MASP) for intermediate hole section will be below 4500 psi.
      iii. If any well control events are encountered, a full BOP test will be performed on subsequent well.
2. After performing a full BOP test on first well, the intermediate hole section will be drilled and cased per design, two breaks will be made on the BOP equipment:
   a. One between the BOP quick connect adapter and wellhead.
   b. a. One between the HCR valve and choke line connection.
3. Following that, the BOP will be lifted up from the wellhead using a hydraulic or winch system. The two connections will be broken as seen in **Figure 3.**
4. Once skidding to subsequent well is complete, the BOP will be installed on wellhead and the HCR-to-Choke line break will be reconnected.
5. The test plug will then be installed into wellhead.
6. A shell test will then be performed, testing both connections broken as seen in **Figure 4.**
   a. The test will consist of a 250 psi low test and a high test equal to the BOP rating value submitted in the APD and as approved in COAs.
   a. Break test procedure is the same for both 5M and 10M systems, only test pressures change.
7. Following a successful shell test, a function test of the lower pipe rams, blind rams, and annular preventer will be performed.
8. For multi-well pads, the same procedure will be followed for subsequent wells only if the next intermediate hole section can be drilled and cased with the 21-day BOP test window. If unable to be drilled in that time, a full BOP test will be performed.

Modified BOP Testing Procedure for Batch Drilling

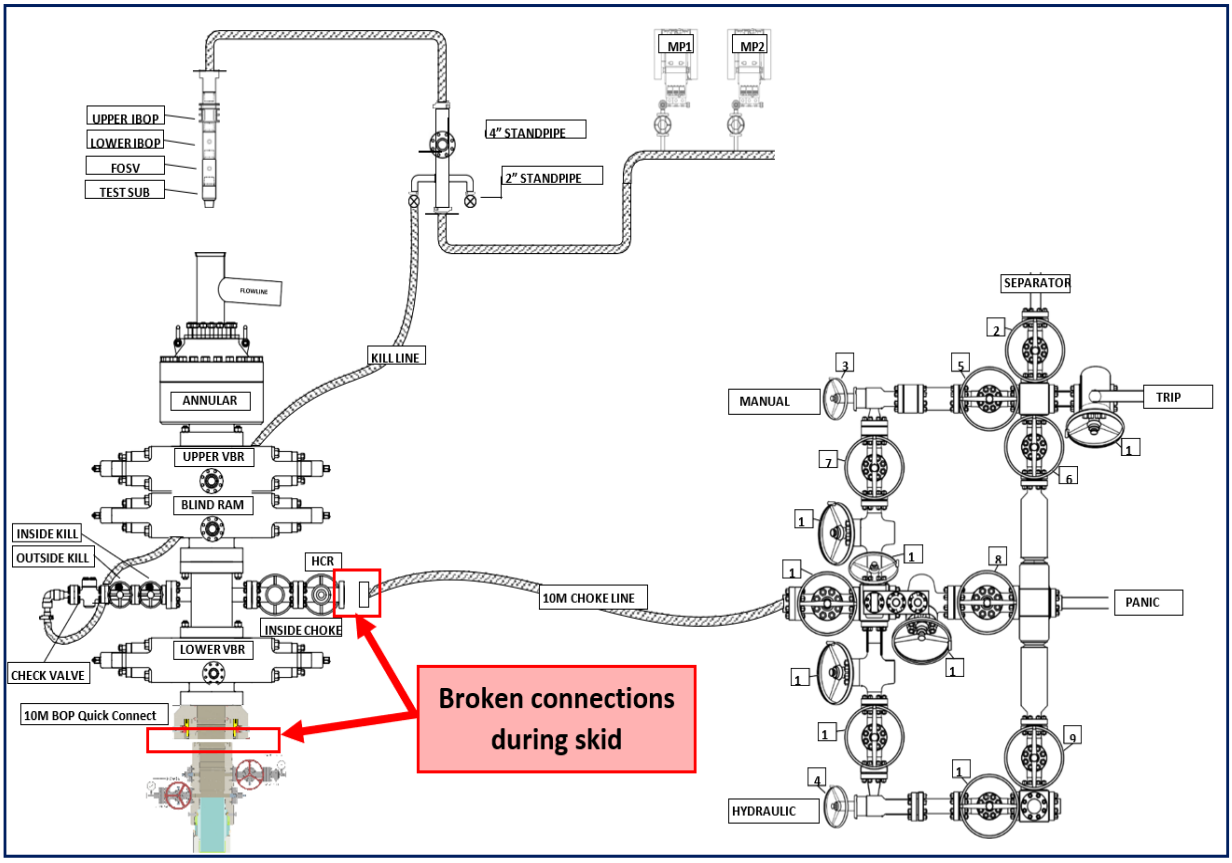
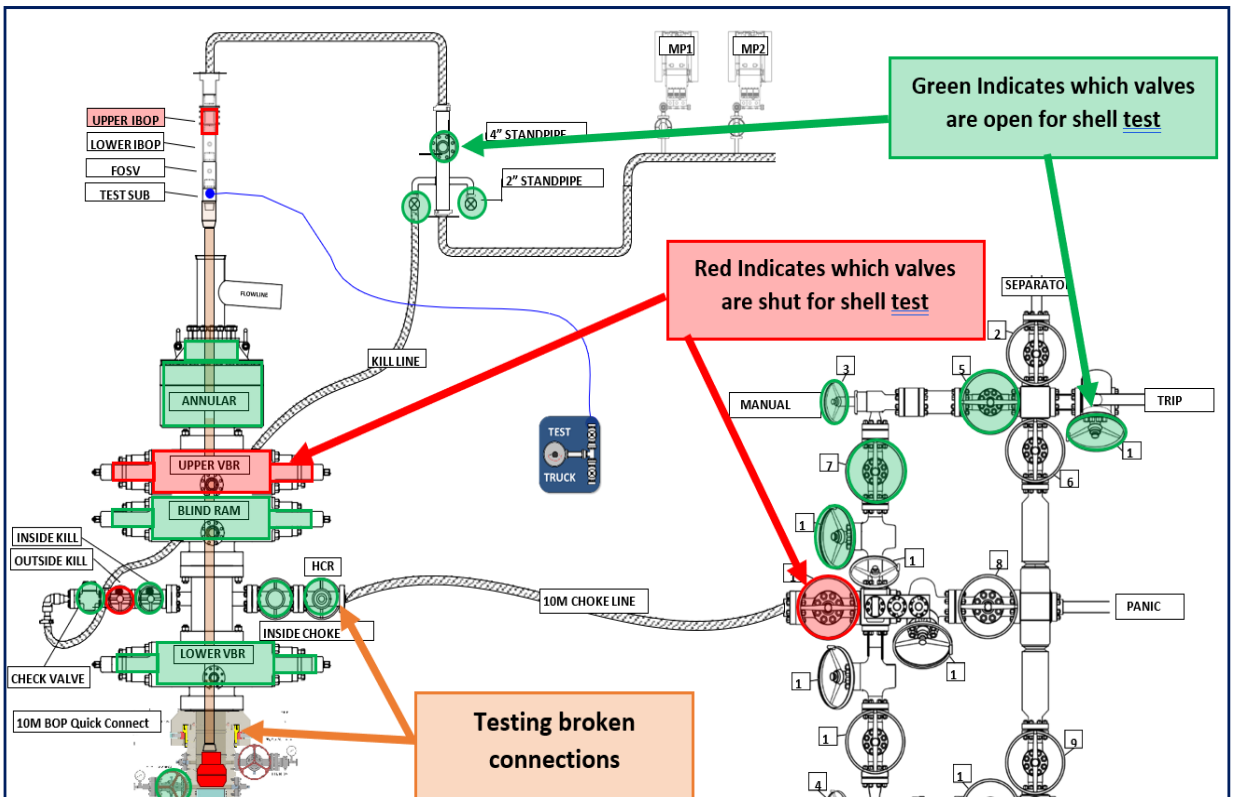


Figure 3: Shows which connections are broken during the skidding process



Modified BOP Testing Procedure for Batch Drilling

Figure 4: Shows which valves are shut/open for the shell test, testing both broken connections

Casing Specs - 5.5" 20lb Hunting TLW-SC

Raes Creek 25 36 22 Fed Com 095H | **Township/Range: 25S 36E**
SHL: 200' FSL & 1710' FEL Section 22 | **Elevation Above Sea Level: 3053'**

TEC-LOCK WEDGE

5.500" 20 LB/FT (.361"Wall) with 5.875" SPECIAL CLEARANCE OD
BEN P110 CY

Pipe Body Data

Nominal OD:	5.500	in
Nominal Wall:	.361	in
Nominal Weight:	20.00	lb/ft
Plain End Weight:	19.83	lb/ft
Material Grade:	P110 CY	
Mill/Specification:	BEN	
Yield Strength:	125,000	psi
Tensile Strength:	135,000	psi
Nominal ID:	4.778	in
API Drift Diameter:	4.653	in
Special Drift Diameter:	None	in
RBW:	87.5 %	
Body Yield:	729,000	lbf
Burst:	14,360	psi
Collapse:	13,010	psi

Connection Data

Standard OD:	5.875	in
Pin Bored ID:	4.778	in
Critical Section Area:	5.656	in²
Tensile Efficiency:	97 %	
Compressive Efficiency:	100 %	
Longitudinal Yield Strength:	707,000	lbf
Compressive Limit:	729,000	lbf
Internal Pressure Rating:	14,360	psi
External Pressure Rating:	13,010	psi
Maximum Bend:	101.2	°/100ft

Operational Data

Minimum Makeup Torque:	15,000	ft*lbf
Optimum Makeup Torque:	18,700	ft*lbf
Maximum Makeup Torque:	41,200	ft*lbf
Minimum Yield:	45,800	ft*lbf
Makeup Loss:	5.97	in

Notes Operational Torque is equivalent to the Maximum Make-Up Torque

Generated on Sep 03, 2019

HUNTING

Matador Production Company

Casing Table Specification Sheet

Raes Creek 25 36 22 Fed Com 095H
SHL: 200' FSL & 1710' FEL Section 22
BHL: 110' FNL & 333' FEL Section 15
Township/Range: 25S 36E
Elevation Above Sea Level: 3053

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	26	0 - 1339	0 - 1339	20	94	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	17.5	0 - 5356	0 - 5337	13.375	68	L-80	BUTT	1.125	1.125	1.8
Intermediate 2	12.25	0 - 11211	0 - 11135	9.625	40	P-110HC	BUTT	1.125	1.125	1.8
Liner	8.75	10711 - 14762	10635 - 14677	7.625	29.7	P-110EC	TLW-FJ	1.125	1.125	1.8
Production	6.75	0 - 24578	0 - 14330	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

Matador Production Company

Offline Cementing - Intermediate Casing

Raes Creek 25 36 22 Fed Com 095H **Township/Range: 25S 36E**
SHL: 200' FSL & 1710' FEL Section 22 **Elevation Above Sea Level: 3053'**

Matador Production Company requests the option to cement the intermediate casing string offline as a prudent batch drilling efficiency of acreage development.

Cement Program

No changes to the cement program will take place for offline cementing.

Offline Cementing Procedure

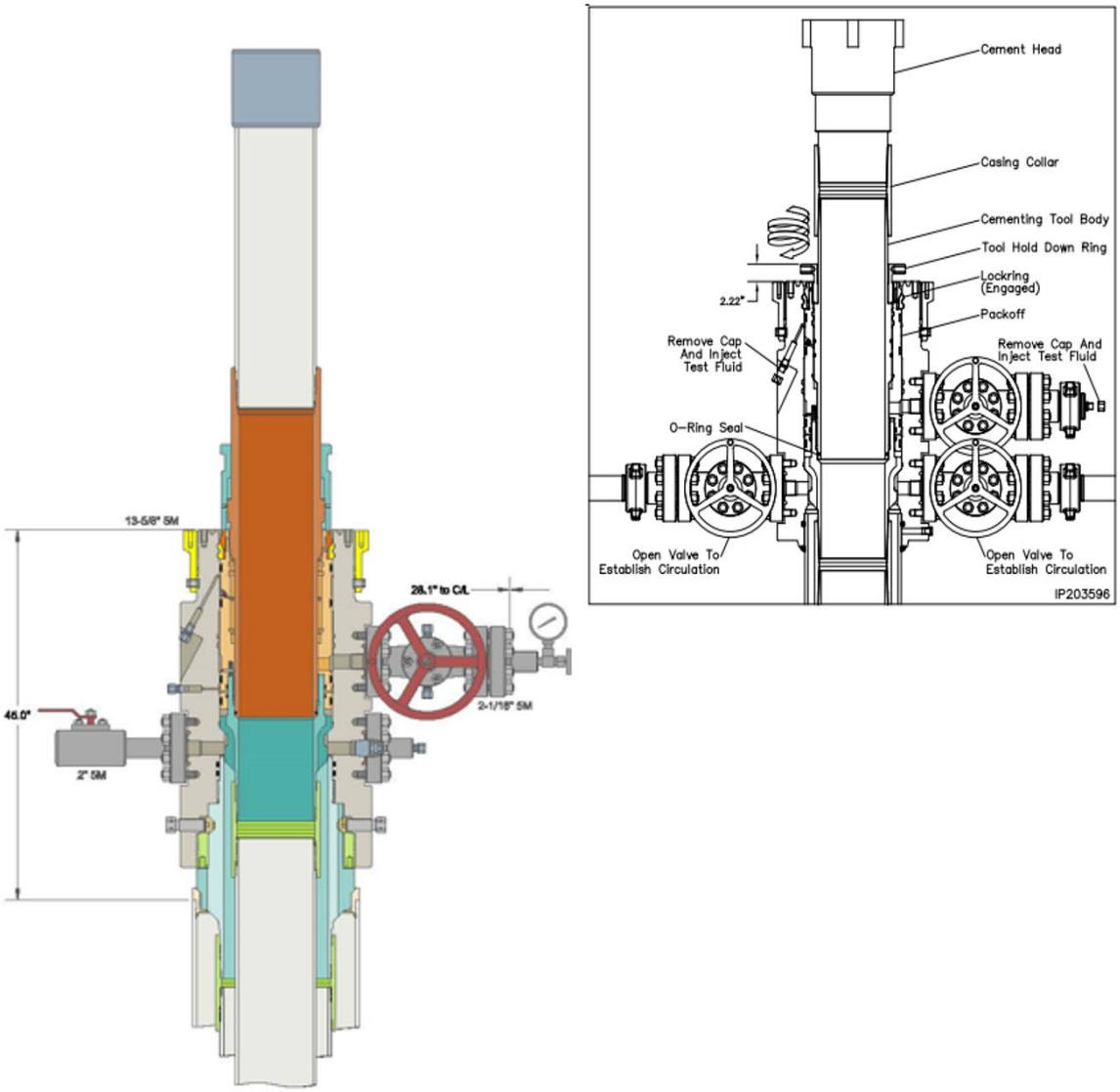
The operational sequence will be as follows. Well must meet the below requirements to be a candidate for offline cementing, if wellbore conditions change, BLM will be notified.

- No noticeable wellbore instability.
- Casing installed successfully with no issues.
- No observed shallow gas or other anomalies
- Intermediate hole section must have a MASP of 5,000 psi or lower.

1. Run casing as per normal operations. While running casing, confirm integrity of the float equipment (float collar and shoe).
2. Land Intermediate casing with fluted mandrel hanger through BOP stack.
3. Remove the landing joint and set packoff through BOP. Pressure test seals to 5,000 psi for 10 minutes. After the test, engage the lockring.
4. Notify the BLM 4 hours prior to N/D BOP and offline cementing. Confirm the following barriers are operational:
   a. Inside Casing: 2 float valves and mud weight sufficient to hold back pore pressure
   b. Annulus (outside) Casing: Packoff and mud weight sufficient to hold back pore pressure
5. Once the well is secure and BLM has been notified, proceed with nippling down BOP and installing cap flange.
6. Skid rig to the next well on the pad.
7. Rig up lines to take returns from wellhead through the cement choke manifold to the pits.
8. Attach a test pump with manifold to the open fitting and pump clean fluid until a stable test pressure of 5,000 psi is achieved. Hold pressure for 15 minutes. After a satisfactory test, bleed off test pressure, remove test pump and reinstall cap flange on the open fitting.
9. Attach the test pump to the upper outlet valve and pressure up the void area between the upper and lowermost O-rings until a stable test pressure of 5,000 psi is achieved. After a satisfactory test, bleed off all test pressure and leave the upper valve in the open position.
10. Place a mark across the top of the wellhead to monitor possible rotation of the tool during the cement job.
11. Install the casing hanger/packoff offline cementing tool. Rig up cement head and cementing lines. Pressure test lines against the cement head as per cement procedure.
12. Break circulation on well to confirm no restrictions. If shallow gas is encountered, shut in the well and reroute returns through the gas buster.
    a. Max anticipated time before circulating with cement truck is 24 hours.
13. Establish circulation and cement casing as per plan, taking returns through the two 2-1/16” 5M gate valves on the housing lower outlets. At plug bump, pressure test casing to 0.22 psi/ft per foot of casing string length or 1,500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield.
14. With cement in place, confirm well is static and floats are holding. Bleed off the cement pressure and remove cement head.
15. Remove the casing hanger/packoff offline cementing tool.
16. Install TA cap with pressure gauge for monitoring.

Offline Cementing - Intermediate Casing

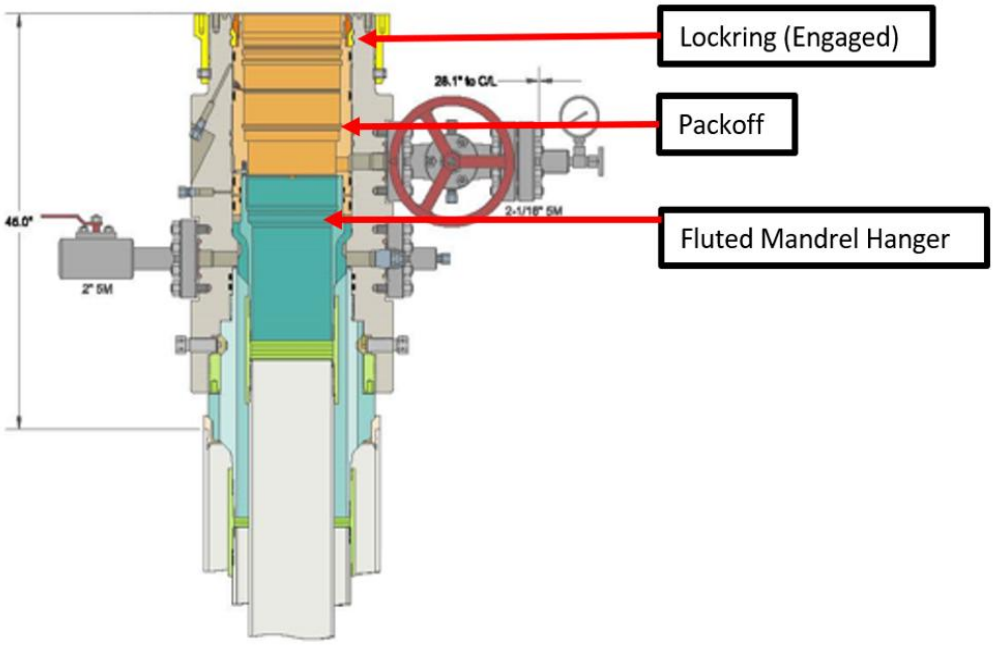
Figure 1: Cactus Offline Cementing Tool Schematic (5M tool)



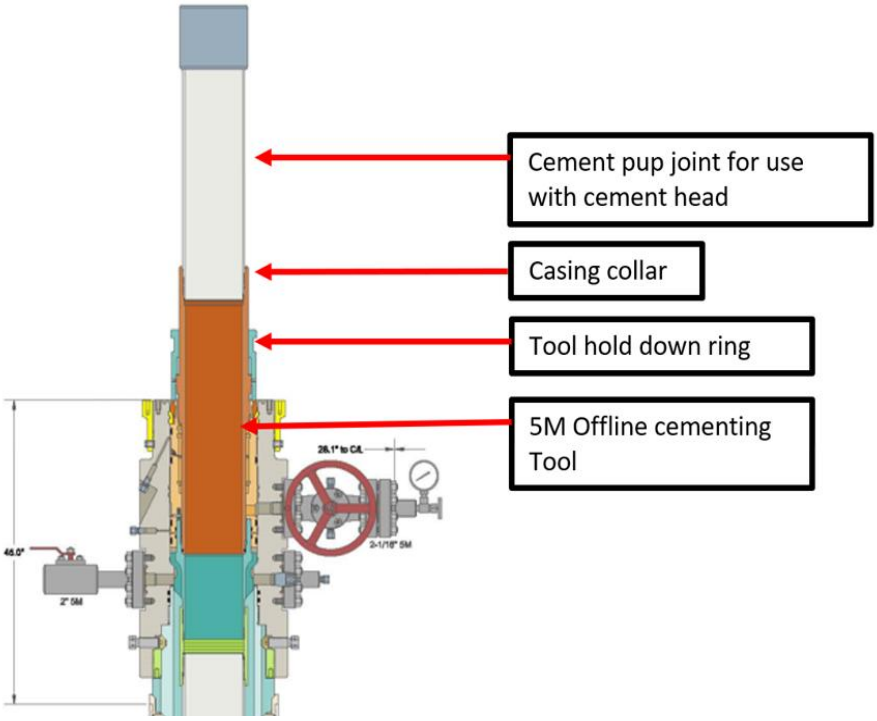
Offline Cementing - Intermediate Casing

Figure 2: Step-by-Step schematics procedure

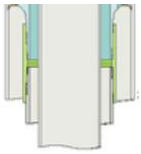
Step 1: Landing the mandrel hanger and setting the packoff. The well is sealed with mud, two float valves, and packoff.



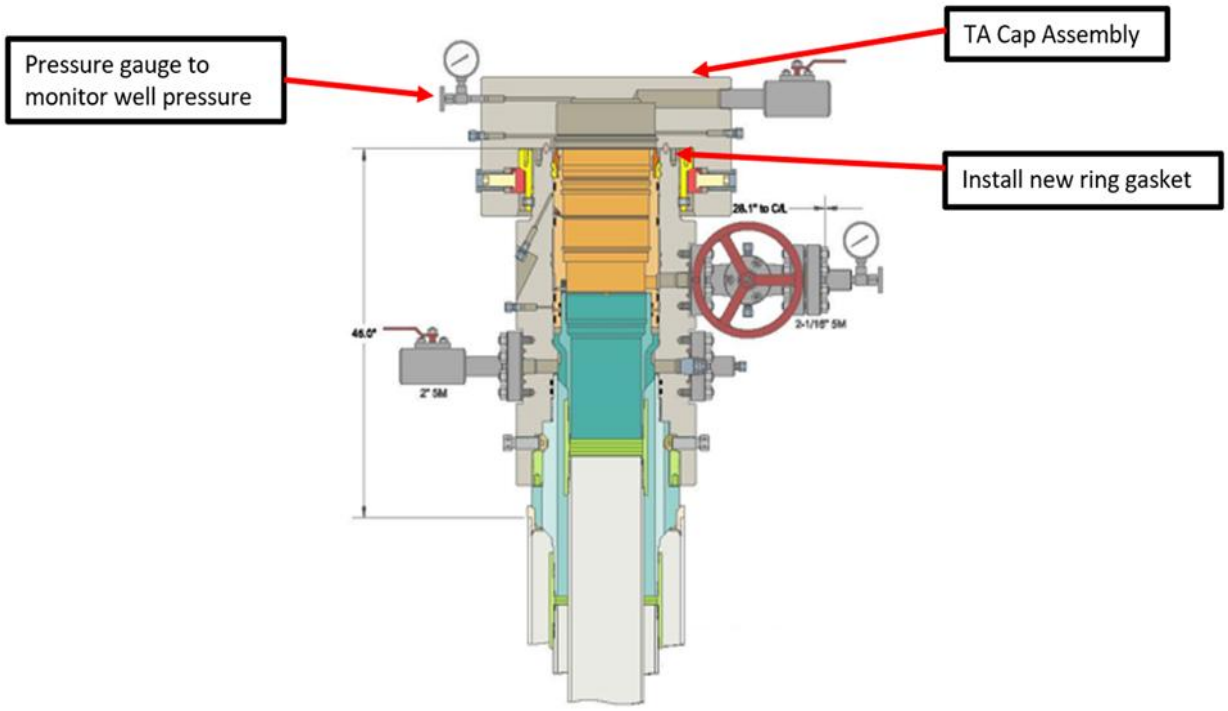
Step 2: Install casing hanger/packoff offline cementing tool.



Offline Cementing - Intermediate Casing



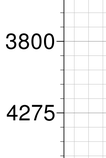
Step 3: Install TA cap with pressure gauge for monitoring.



Company: Matador Production Company
Well: Rae's Creek 25 36 22 Fed Com #095H
County: Lea County, NM
Wellbore: Wellbore #1
Plan: BLM Plan #1
Date: 7/8/2025

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

To convert a Magnetic Direction to a Grid Direction, Add 7.02°
To convert a Magnetic Direction to a True Direction, Add 7.59° East
To convert a True Direction to a Grid Direction, Subtract 0.58°



Azimuths to Grid North
True North: -0.58°
Magnetic North: 7.02°

Magnetic Field
Strength: 48761.5snT
Dip Angle: 60.19°
Date: 12/31/2009
Model: IGRF200510

SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
1.0	13852.1	BLM Plan #1 (Pilot Hole)	MWD
13852.1	24578.6	BLM Plan #1 (Wellbore #1)	MWD

WELL DETAILS: Rae's Creek 25 36 22 Fed Com #095H

GL @ 3053.0 KB @ 3081.5usft

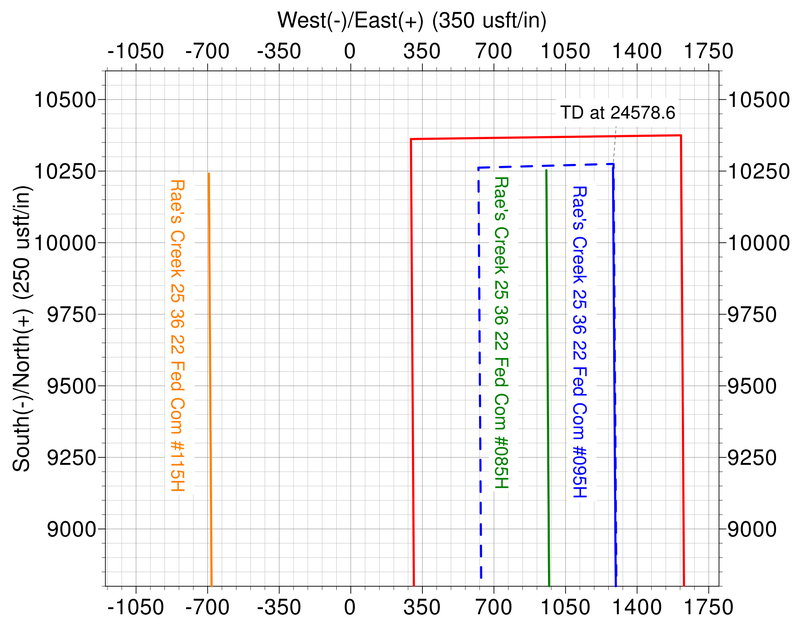
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.0	0.0	405069.66	835575.95	32° 6' 32.454 N	103° 14' 58.401 W	

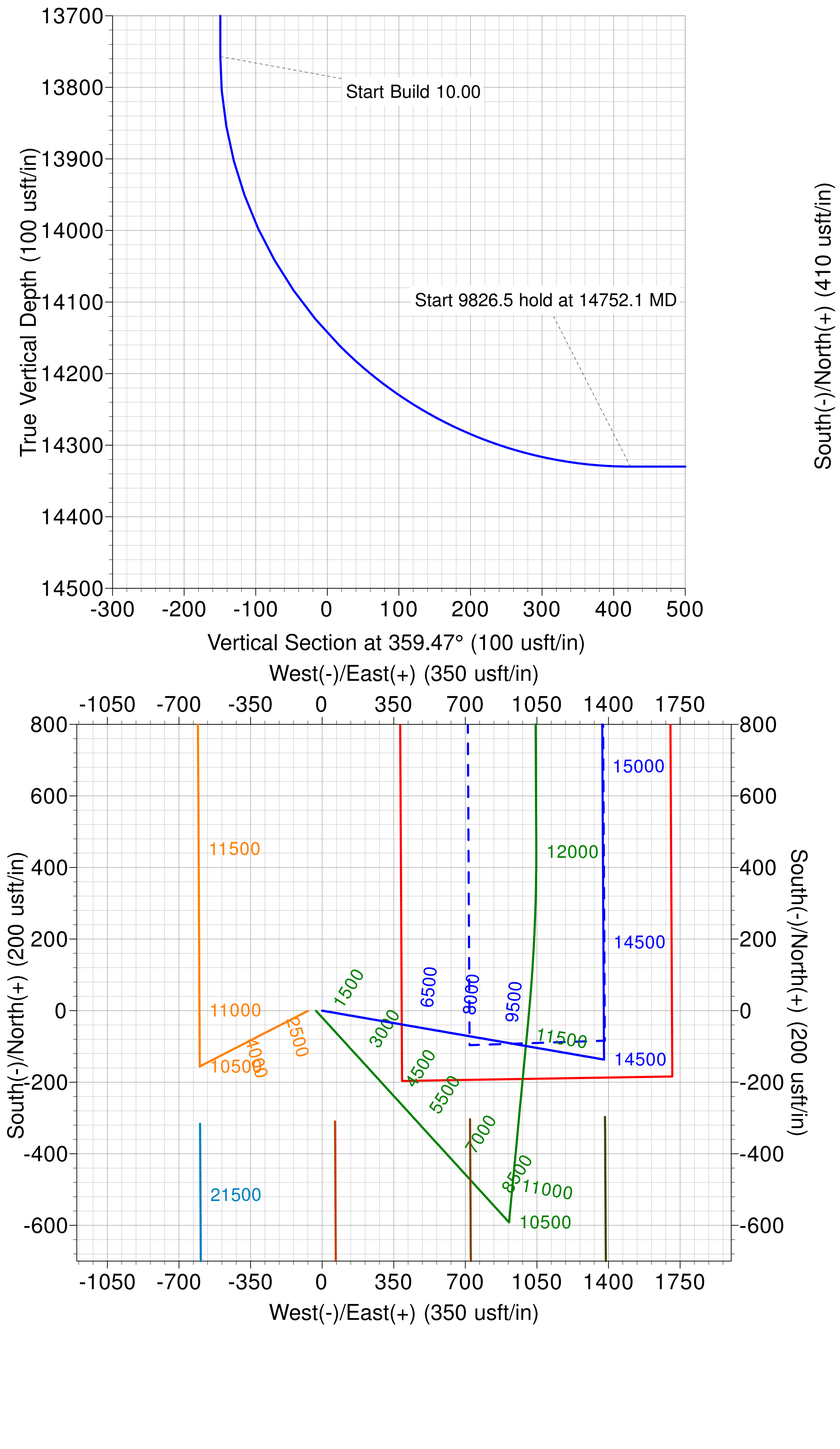
DESIGN TARGET DETAILS

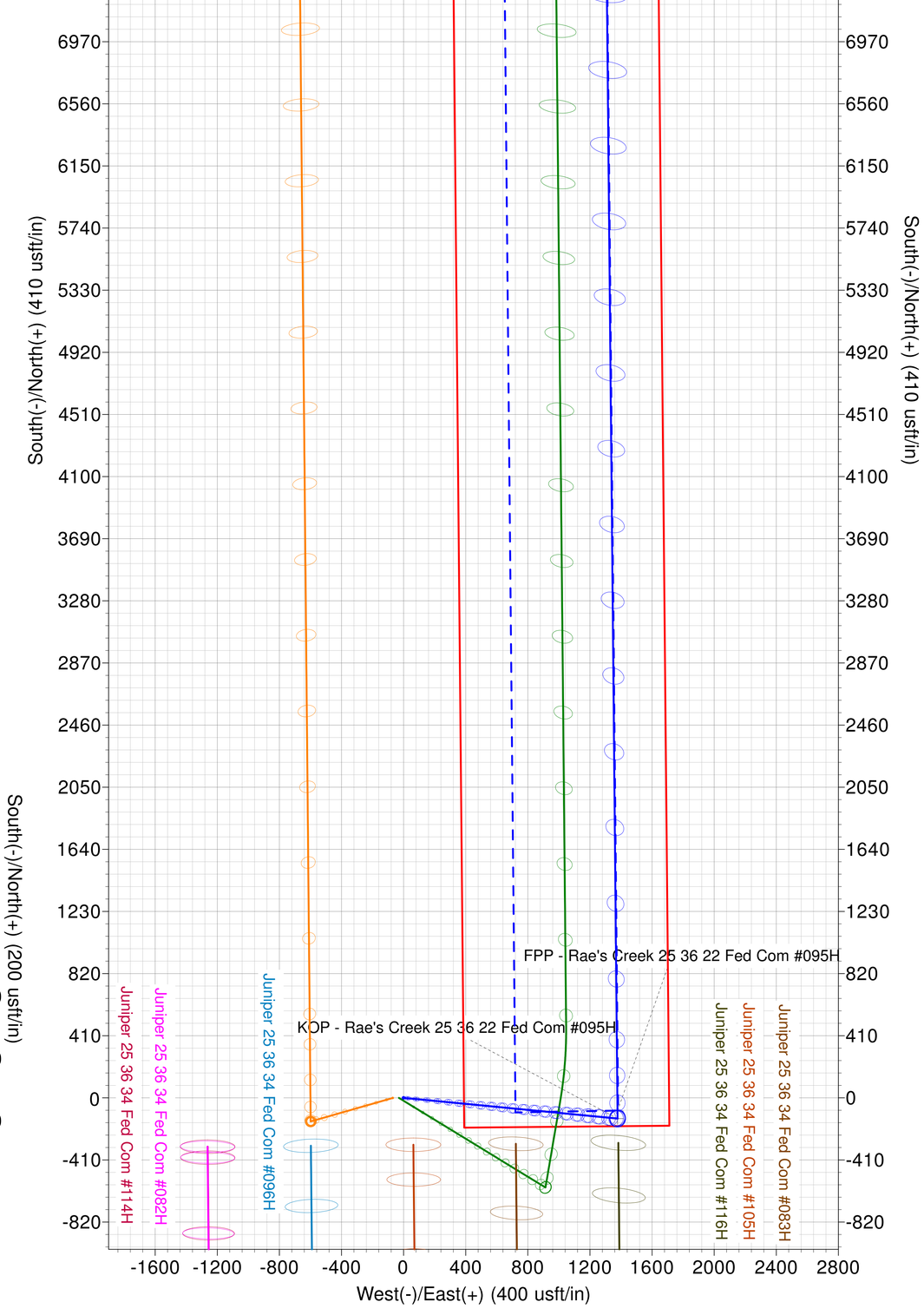
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
BHL - Rae's Creek 25 36 22 Fed Com #095H	14330.0	10262.3	1283.1	415332.00	836859.00	32° 8' 13.869 N	103° 14' 42.281 W
FPP - Rae's Creek 25 36 22 Fed Com #095H	13990.2	-87.0	1377.6	404982.61	836953.54	32° 6' 31.455 N	103° 14' 42.397 W
KOP - Rae's Creek 25 36 22 Fed Com #095H	13758.0	-136.7	1378.1	404933.00	836954.00	32° 6' 30.964 N	103° 14' 42.397 W

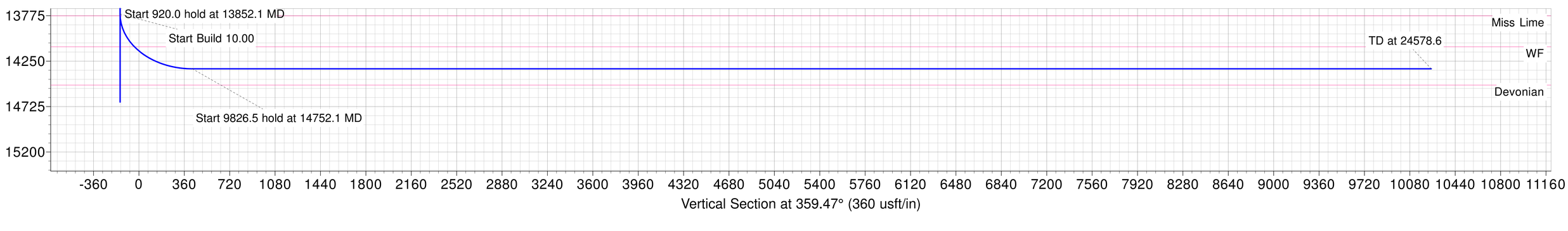
SECTION DETIALS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DIeg	TFace	VSect	Annotation
13852.1	0.00	0.00	13757.0	-136.7	1378.1	0.00	0.00	-149.4	Start Build 10.00
14752.1	90.00	359.47	14330.0	436.3	1372.8	10.00	359.47	423.6	Start 9826.5 hold at 14752.1 MD
24578.6	90.00	359.47	14330.0	10262.3	1281.9	0.00	0.00	10250.0	TD at 24578.6









Company: Matador Production Company
Well: Rae's Creek 25 36 22 Fed Com #095H
County: Lea County, NM
Wellbore: Pilot Hole
Plan: BLM Plan #1
Date: 3/11/2025

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

To convert a Magnetic Direction to a Grid Direction, Add 5.39°
To convert a Magnetic Direction to a True Direction, Add 5.96° East
To convert a True Direction to a Grid Direction, Subtract 0.58°

T G M

Azimuths to Grid North
True North: -0.58°
Magnetic North: 5.39°

Magnetic Field
Strength: 47130.7snT
Dip Angle: 59.90°
Date: 12/31/2024
Model: IGRF2015

SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
0.0	14772.1	BLM Plan #1 (Pilot Hole)	MWD

WELL DETAILS: Rae's Creek 25 36 22 Fed Com #095H

GL @ 3053.0 KB @ 3080.5usft

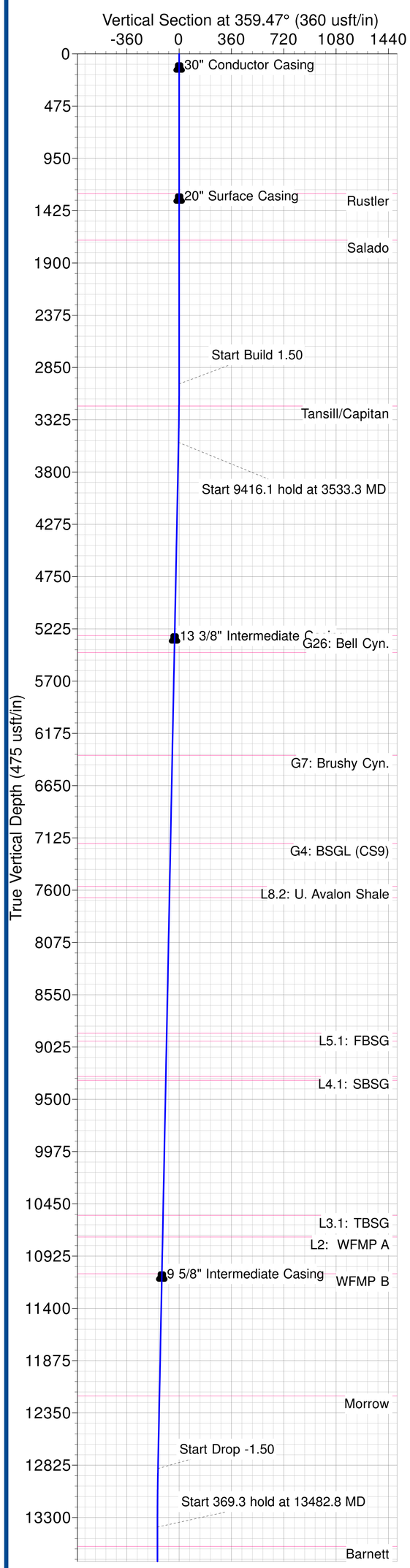
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.0	0.0	405069.66	835575.95	32° 6' 32.454 N	103° 14' 58.401 W	

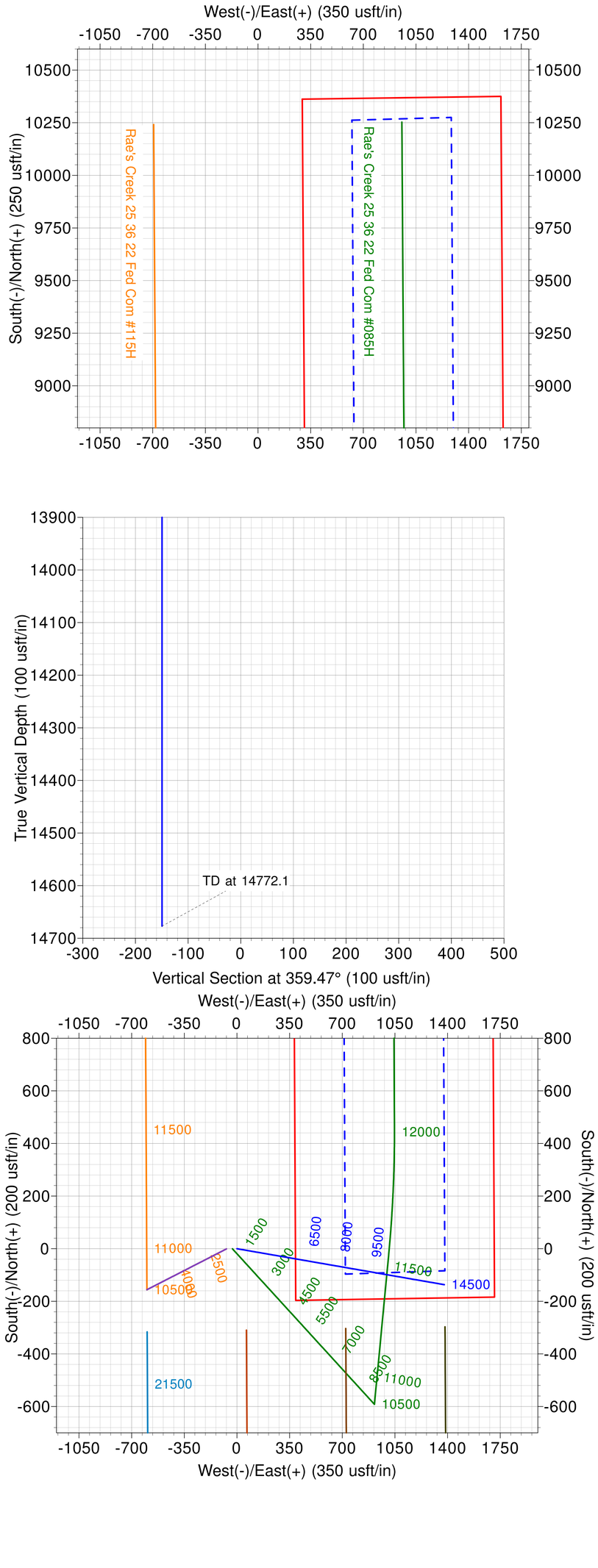
DESIGN TARGET DETAILS

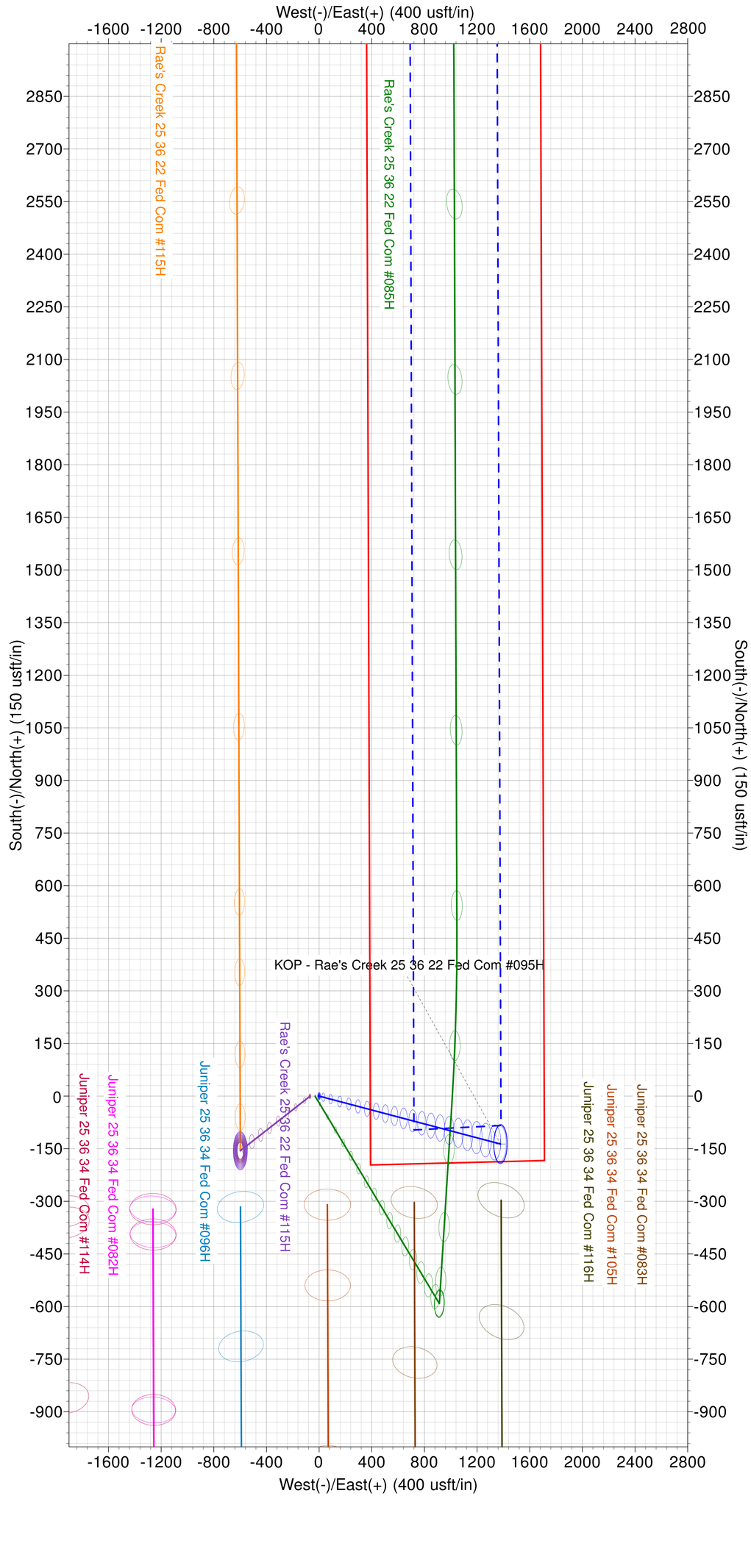
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
KOP - Rae's Creek 25 36 22 Fed Com #095H	13757.0	-136.7	1378.1	404933.00	836954.00	32° 6' 30.964 N	103° 14' 42.397 W
BHL - Rae's Creek 25 36 22 Fed Com #095H	14329.0	10262.3	1283.1	415332.00	836859.00	32° 8' 13.869 N	103° 14' 42.281 W

SECTION DETIALS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DIeg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	Start Build 1.50
3533.3	8.00	95.66	3531.6	-3.7	37.0	1.50	95.66	-4.0	Start 9416.1 hold at 3533.3 MD
12949.4	8.00	95.66	12856.1	-133.0	1341.1	0.00	0.00	-145.4	Start Drop -1.50
13482.8	0.00	0.00	13387.7	-136.7	1378.1	1.50	180.00	-149.4	Start 369.3 hold at 13482.8 MD
13852.1	0.00	0.00	13757.0	-136.7	1378.1	0.00	0.00	-149.4	Start 920.0 hold at 13852.1 MD
14772.1	0.00	0.00	14677.0	-136.7	1378.1	0.00	0.00	-149.4	TD at 14772.1







Casing Specs - 7.625" 29.7lb P-110 EC TEC-LOCK FJ

Raes Creek 25 36 22 Fed Com 095H
SHL: 200' FSL & 1710' FEL Section 22

Township/Range: 25S 36E
Elevation Above Sea Level: 3053'

TEC-LOCK FJ

7.625" 29.70 LB/FT (.375" Wall)
Vallourec P110 EC

Pipe Body Data

Nominal OD:	7.625	in
Nominal Wall:	.375	in
Nominal Weight:	29.70	lb/ft
Plain End Weight:	29.06	lb/ft
Material Grade:	P110 EC	
Mill/Specification:	Vallourec	
Yield Strength:	125,000	psi
Tensile Strength:	135,000	psi
Nominal ID:	6.875	in
API Drift Diameter:	6.750	in
Special Drift Diameter:	None	in
RBW:	87.5 %	
Body Yield:	1,068,000	lbf
Burst:	10,760	psi
Collapse:	7,360	psi

Connection Data

Standard OD:	7.625	in
Pin Bored ID:	6.875	in
Critical Section Area:	5.974	in^2
Tensile Efficiency:	70.0 %	
Compressive Efficiency:	70.0 %	
Longitudinal Yield Strength:	747,000	lbf
Compressive Limit:	747,000	lbf
Internal Pressure Rating:	10,760	psi
External Pressure Rating:	7,360	psi
Maximum Bend:	30.1	°/100ft

Operational Data

Min Shoulder Torque:	1,100	ft*lbf
Max Shoulder Torque:	4,250	ft*lbf
Minimum Makeup Torque:	7,300	ft*lbf
Optimum Makeup Torque:	8,700	ft*lbf
Maximum Makeup Torque:	10,500	ft*lbf
Minimum Yield:	21,000	ft*lbf
Makeup Loss:	5.97	in

Notes

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HUNTING

Please visit http://www.huntingplc.com for the latest technical information.

Matador Production Company

Offline Cementing - Surface Casing

Raes Creek 25 36 22 Fed Com 095H **Township/Range: 25S 36E**
SHL: 200' FSL & 1710' FEL Section 22 **Elevation Above Sea Level: 3053'**

Matador Production Company requests the option to cement the surface casing string offline as a prudent batch drilling efficiency of acreage development.

Cement Program

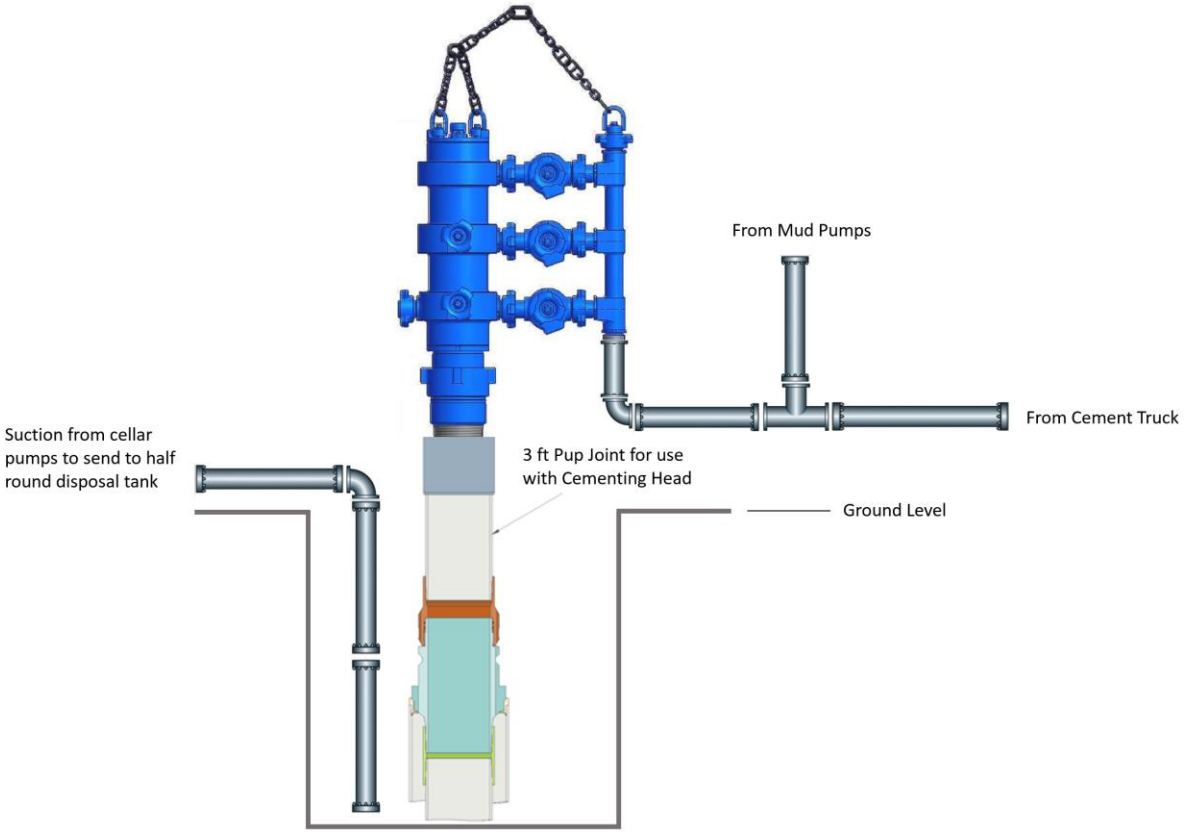
No changes to the cement program will take place for offline cementing.

Offline Cementing Procedure

The operational sequence will be as follows. Well must meet the below requirements to be a candidate for offline cementing, if wellbore conditions change, BLM will be notified.

- No noticeable wellbore instability.
- Casing installed successfully with no issues.
- No observed shallow gas or other anomalies

1. Run casing as per normal operations. While running casing, confirm integrity of the float equipment (float collar and shoe).
2. Land casing with mandrel.
3. Install cap flange.
4. Skid rig to the next well on the pad.
5. Rig up on the well in accordance with the diagram shown below.



6. Circulate bottoms up with cement truck.
   - Max anticipated time before circulating with cement truck is 24 hours.
7. Perform cement job, taking returns in the cellar.
8. Confirm well is static and floats are holding following the cement job.
9. Remove cement equipment and install night cap with pressure gauge for monitoring.

Offline Cementing - Surface Casing

Matador Production Company

Antelope Ridge
Rae's Creek
Rae's Creek 25 36 22 Fed Com #095H

Wellbore #1

Plan: BLM Plan #1

Standard Planning Report

18 July, 2025

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rae's Creek 25 36 22 Fed Com #095H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3081.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3081.5usft
Site:	Rae's Creek	**North Reference:**	Grid
Well:	Rae's Creek 25 36 22 Fed Com #095H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Project Antelope Ridge

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 Rae's Creek

Site Position:		**Northing:**	405,069.29 usft	**Latitude:**	32° 6' 32.453 N
From:	Lat/Long	**Easting:**	835,545.96 usft	**Longitude:**	103° 14' 58.749 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.58 °

Well Rae's Creek 25 36 22 Fed Com #095H

Well Position	**+N/-S**	0.4 usft	**Northing:**	405,069.66 usft	**Latitude:**	32° 6' 32.454 N
	+E/-W	30.0 usft	**Easting:**	835,575.94 usft	**Longitude:**	103° 14' 58.401 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,053.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.59	60.19	48,761.52663206

Design BLM Plan #1

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	13,852.1

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.47

Plan Survey Tool Program **Date** 7/18/2025

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	13,852.1	24,578.6	BLM 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
13,852.1	0.00	0.00	13,757.0	-136.7	1,378.1	0.00	0.00	0.00	0.00	
14,752.1	90.00	359.47	14,330.0	436.3	1,372.8	10.00	10.00	0.00	359.47	
24,578.6	90.00	359.47	14,330.0	10,262.3	1,281.9	0.00	0.00	0.00	0.00	BHL - Rae's Creek 25

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rae's Creek 25 36 22 Fed Com #095H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3081.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3081.5usft
Site:	Rae's Creek	**North Reference:**	Grid
Well:	Rae's Creek 25 36 22 Fed Com #095H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM 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)
13,852.1	0.00	0.00	13,757.0	-136.7	1,378.1	-149.4	0.00	0.00	0.00
Start Build 10.00									
13,853.1	0.10	359.47	13,758.0	-136.7	1,378.1	-149.4	10.00	10.00	0.00
KOP - Rae's Creek 25 36 22 Fed Com #095H									
13,870.8	1.87	359.47	13,775.7	-136.4	1,378.1	-149.1	10.00	10.00	0.00
Miss Lime									
13,900.0	4.79	359.47	13,804.8	-134.7	1,378.0	-147.4	10.00	10.00	0.00
14,000.0	14.79	359.47	13,903.3	-117.7	1,377.9	-130.4	10.00	10.00	0.00
14,092.3	24.02	359.47	13,990.2	-87.0	1,377.6	-99.8	10.00	10.00	0.00
FPP - Rae's Creek 25 36 22 Fed Com #095H									
14,100.0	24.79	359.47	13,997.2	-83.9	1,377.6	-96.6	10.00	10.00	0.00
14,200.0	34.79	359.47	14,083.9	-34.2	1,377.1	-47.0	10.00	10.00	0.00
14,219.8	36.77	359.47	14,100.0	-22.7	1,377.0	-35.4	10.00	10.00	0.00
WF									
14,300.0	44.79	359.47	14,160.7	29.7	1,376.5	16.9	10.00	10.00	0.00
14,400.0	54.79	359.47	14,225.1	105.9	1,375.8	93.2	10.00	10.00	0.00
14,500.0	64.79	359.47	14,275.4	192.2	1,375.0	179.5	10.00	10.00	0.00
14,600.0	74.79	359.47	14,309.9	286.0	1,374.1	273.2	10.00	10.00	0.00
14,700.0	84.79	359.47	14,327.6	384.2	1,373.2	371.5	10.00	10.00	0.00
14,752.1	90.00	359.47	14,330.0	436.3	1,372.8	423.6	10.00	10.00	0.00
Start 9826.5 hold at 14752.1 MD									
14,800.0	90.00	359.47	14,330.0	484.2	1,372.3	471.5	0.00	0.00	0.00
14,900.0	90.00	359.47	14,330.0	584.2	1,371.4	571.5	0.00	0.00	0.00
15,000.0	90.00	359.47	14,330.0	684.2	1,370.5	671.5	0.00	0.00	0.00
15,100.0	90.00	359.47	14,330.0	784.2	1,369.5	771.5	0.00	0.00	0.00
15,200.0	90.00	359.47	14,330.0	884.2	1,368.6	871.5	0.00	0.00	0.00
15,300.0	90.00	359.47	14,330.0	984.1	1,367.7	971.5	0.00	0.00	0.00
15,400.0	90.00	359.47	14,330.0	1,084.1	1,366.8	1,071.5	0.00	0.00	0.00
15,500.0	90.00	359.47	14,330.0	1,184.1	1,365.8	1,171.5	0.00	0.00	0.00
15,600.0	90.00	359.47	14,330.0	1,284.1	1,364.9	1,271.5	0.00	0.00	0.00
15,700.0	90.00	359.47	14,330.0	1,384.1	1,364.0	1,371.5	0.00	0.00	0.00
15,800.0	90.00	359.47	14,330.0	1,484.1	1,363.1	1,471.5	0.00	0.00	0.00
15,900.0	90.00	359.47	14,330.0	1,584.1	1,362.1	1,571.5	0.00	0.00	0.00
16,000.0	90.00	359.47	14,330.0	1,684.1	1,361.2	1,671.5	0.00	0.00	0.00
16,100.0	90.00	359.47	14,330.0	1,784.1	1,360.3	1,771.5	0.00	0.00	0.00
16,200.0	90.00	359.47	14,330.0	1,884.1	1,359.4	1,871.5	0.00	0.00	0.00
16,300.0	90.00	359.47	14,330.0	1,984.1	1,358.4	1,971.5	0.00	0.00	0.00
16,400.0	90.00	359.47	14,330.0	2,084.1	1,357.5	2,071.5	0.00	0.00	0.00
16,500.0	90.00	359.47	14,330.0	2,184.1	1,356.6	2,171.5	0.00	0.00	0.00
16,600.0	90.00	359.47	14,330.0	2,284.1	1,355.7	2,271.5	0.00	0.00	0.00
16,700.0	90.00	359.47	14,330.0	2,384.1	1,354.7	2,371.5	0.00	0.00	0.00
16,800.0	90.00	359.47	14,330.0	2,484.1	1,353.8	2,471.5	0.00	0.00	0.00
16,900.0	90.00	359.47	14,330.0	2,584.1	1,352.9	2,571.5	0.00	0.00	0.00
17,000.0	90.00	359.47	14,330.0	2,684.1	1,352.0	2,671.5	0.00	0.00	0.00
17,100.0	90.00	359.47	14,330.0	2,784.1	1,351.0	2,771.5	0.00	0.00	0.00
17,200.0	90.00	359.47	14,330.0	2,884.1	1,350.1	2,871.5	0.00	0.00	0.00
17,300.0	90.00	359.47	14,330.0	2,984.1	1,349.2	2,971.5	0.00	0.00	0.00
17,400.0	90.00	359.47	14,330.0	3,084.1	1,348.3	3,071.5	0.00	0.00	0.00
17,500.0	90.00	359.47	14,330.0	3,184.1	1,347.3	3,171.5	0.00	0.00	0.00
17,600.0	90.00	359.47	14,330.0	3,284.0	1,346.4	3,271.5	0.00	0.00	0.00
17,700.0	90.00	359.47	14,330.0	3,384.0	1,345.5	3,371.5	0.00	0.00	0.00
17,800.0	90.00	359.47	14,330.0	3,484.0	1,344.6	3,471.5	0.00	0.00	0.00
17,900.0	90.00	359.47	14,330.0	3,584.0	1,343.6	3,571.5	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rae's Creek 25 36 22 Fed Com #095H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3081.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3081.5usft
Site:	Rae's Creek	**North Reference:**	Grid
Well:	Rae's Creek 25 36 22 Fed Com #095H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM 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)
18,000.0	90.00	359.47	14,330.0	3,684.0	1,342.7	3,671.5	0.00	0.00	0.00
18,100.0	90.00	359.47	14,330.0	3,784.0	1,341.8	3,771.5	0.00	0.00	0.00
18,200.0	90.00	359.47	14,330.0	3,884.0	1,340.9	3,871.5	0.00	0.00	0.00
18,300.0	90.00	359.47	14,330.0	3,984.0	1,339.9	3,971.5	0.00	0.00	0.00
18,400.0	90.00	359.47	14,330.0	4,084.0	1,339.0	4,071.5	0.00	0.00	0.00
18,500.0	90.00	359.47	14,330.0	4,184.0	1,338.1	4,171.5	0.00	0.00	0.00
18,600.0	90.00	359.47	14,330.0	4,284.0	1,337.2	4,271.5	0.00	0.00	0.00
18,700.0	90.00	359.47	14,330.0	4,384.0	1,336.2	4,371.5	0.00	0.00	0.00
18,800.0	90.00	359.47	14,330.0	4,484.0	1,335.3	4,471.5	0.00	0.00	0.00
18,900.0	90.00	359.47	14,330.0	4,584.0	1,334.4	4,571.5	0.00	0.00	0.00
19,000.0	90.00	359.47	14,330.0	4,684.0	1,333.5	4,671.5	0.00	0.00	0.00
19,100.0	90.00	359.47	14,330.0	4,784.0	1,332.5	4,771.5	0.00	0.00	0.00
19,200.0	90.00	359.47	14,330.0	4,884.0	1,331.6	4,871.5	0.00	0.00	0.00
19,300.0	90.00	359.47	14,330.0	4,984.0	1,330.7	4,971.5	0.00	0.00	0.00
19,400.0	90.00	359.47	14,330.0	5,084.0	1,329.8	5,071.5	0.00	0.00	0.00
19,500.0	90.00	359.47	14,330.0	5,184.0	1,328.8	5,171.5	0.00	0.00	0.00
19,600.0	90.00	359.47	14,330.0	5,284.0	1,327.9	5,271.5	0.00	0.00	0.00
19,700.0	90.00	359.47	14,330.0	5,384.0	1,327.0	5,371.5	0.00	0.00	0.00
19,800.0	90.00	359.47	14,330.0	5,484.0	1,326.1	5,471.5	0.00	0.00	0.00
19,900.0	90.00	359.47	14,330.0	5,584.0	1,325.1	5,571.5	0.00	0.00	0.00
20,000.0	90.00	359.47	14,330.0	5,683.9	1,324.2	5,671.5	0.00	0.00	0.00
20,100.0	90.00	359.47	14,330.0	5,783.9	1,323.3	5,771.5	0.00	0.00	0.00
20,200.0	90.00	359.47	14,330.0	5,883.9	1,322.4	5,871.5	0.00	0.00	0.00
20,300.0	90.00	359.47	14,330.0	5,983.9	1,321.4	5,971.5	0.00	0.00	0.00
20,400.0	90.00	359.47	14,330.0	6,083.9	1,320.5	6,071.5	0.00	0.00	0.00
20,500.0	90.00	359.47	14,330.0	6,183.9	1,319.6	6,171.5	0.00	0.00	0.00
20,600.0	90.00	359.47	14,330.0	6,283.9	1,318.7	6,271.5	0.00	0.00	0.00
20,700.0	90.00	359.47	14,330.0	6,383.9	1,317.7	6,371.5	0.00	0.00	0.00
20,800.0	90.00	359.47	14,330.0	6,483.9	1,316.8	6,471.5	0.00	0.00	0.00
20,900.0	90.00	359.47	14,330.0	6,583.9	1,315.9	6,571.5	0.00	0.00	0.00
21,000.0	90.00	359.47	14,330.0	6,683.9	1,315.0	6,671.5	0.00	0.00	0.00
21,100.0	90.00	359.47	14,330.0	6,783.9	1,314.0	6,771.5	0.00	0.00	0.00
21,200.0	90.00	359.47	14,330.0	6,883.9	1,313.1	6,871.5	0.00	0.00	0.00
21,300.0	90.00	359.47	14,330.0	6,983.9	1,312.2	6,971.5	0.00	0.00	0.00
21,400.0	90.00	359.47	14,330.0	7,083.9	1,311.3	7,071.5	0.00	0.00	0.00
21,500.0	90.00	359.47	14,330.0	7,183.9	1,310.3	7,171.5	0.00	0.00	0.00
21,600.0	90.00	359.47	14,330.0	7,283.9	1,309.4	7,271.5	0.00	0.00	0.00
21,700.0	90.00	359.47	14,330.0	7,383.9	1,308.5	7,371.5	0.00	0.00	0.00
21,800.0	90.00	359.47	14,330.0	7,483.9	1,307.6	7,471.5	0.00	0.00	0.00
21,900.0	90.00	359.47	14,330.0	7,583.9	1,306.6	7,571.5	0.00	0.00	0.00
22,000.0	90.00	359.47	14,330.0	7,683.9	1,305.7	7,671.5	0.00	0.00	0.00
22,100.0	90.00	359.47	14,330.0	7,783.9	1,304.8	7,771.5	0.00	0.00	0.00
22,200.0	90.00	359.47	14,330.0	7,883.9	1,303.9	7,871.5	0.00	0.00	0.00
22,300.0	90.00	359.47	14,330.0	7,983.8	1,302.9	7,971.5	0.00	0.00	0.00
22,400.0	90.00	359.47	14,330.0	8,083.8	1,302.0	8,071.5	0.00	0.00	0.00
22,500.0	90.00	359.47	14,330.0	8,183.8	1,301.1	8,171.5	0.00	0.00	0.00
22,600.0	90.00	359.47	14,330.0	8,283.8	1,300.2	8,271.5	0.00	0.00	0.00
22,700.0	90.00	359.47	14,330.0	8,383.8	1,299.2	8,371.5	0.00	0.00	0.00
22,800.0	90.00	359.47	14,330.0	8,483.8	1,298.3	8,471.5	0.00	0.00	0.00
22,900.0	90.00	359.47	14,330.0	8,583.8	1,297.4	8,571.5	0.00	0.00	0.00
23,000.0	90.00	359.47	14,330.0	8,683.8	1,296.5	8,671.5	0.00	0.00	0.00
23,100.0	90.00	359.47	14,330.0	8,783.8	1,295.5	8,771.5	0.00	0.00	0.00
23,200.0	90.00	359.47	14,330.0	8,883.8	1,294.6	8,871.5	0.00	0.00	0.00
23,300.0	90.00	359.47	14,330.0	8,983.8	1,293.7	8,971.5	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rae's Creek 25 36 22 Fed Com #095H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3081.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3081.5usft
Site:	Rae's Creek	**North Reference:**	Grid
Well:	Rae's Creek 25 36 22 Fed Com #095H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM 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)
23,400.0	90.00	359.47	14,330.0	9,083.8	1,292.8	9,071.5	0.00	0.00	0.00
23,500.0	90.00	359.47	14,330.0	9,183.8	1,291.8	9,171.5	0.00	0.00	0.00
23,600.0	90.00	359.47	14,330.0	9,283.8	1,290.9	9,271.5	0.00	0.00	0.00
23,700.0	90.00	359.47	14,330.0	9,383.8	1,290.0	9,371.5	0.00	0.00	0.00
23,800.0	90.00	359.47	14,330.0	9,483.8	1,289.1	9,471.5	0.00	0.00	0.00
23,900.0	90.00	359.47	14,330.0	9,583.8	1,288.1	9,571.5	0.00	0.00	0.00
24,000.0	90.00	359.47	14,330.0	9,683.8	1,287.2	9,671.5	0.00	0.00	0.00
24,100.0	90.00	359.47	14,330.0	9,783.8	1,286.3	9,771.5	0.00	0.00	0.00
24,200.0	90.00	359.47	14,330.0	9,883.8	1,285.4	9,871.5	0.00	0.00	0.00
24,300.0	90.00	359.47	14,330.0	9,983.8	1,284.4	9,971.5	0.00	0.00	0.00
24,400.0	90.00	359.47	14,330.0	10,083.8	1,283.5	10,071.5	0.00	0.00	0.00
24,500.0	90.00	359.47	14,330.0	10,183.8	1,282.6	10,171.5	0.00	0.00	0.00
24,578.6	90.00	359.47	14,330.0	10,262.3	1,281.9	10,250.0	0.00	0.00	0.00
TD at 24578.6 - BHL - Rae's Creek 25 36 22 Fed Com #095H									

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 - Rae's Creek 25 3(- plan hits target center - Point	0.00	0.00	13,758.0	-136.7	1,378.1	404,933.00	836,954.00	32° 6' 30.964 N	103° 14' 42.397 W
FPP - Rae's Creek 25 3(- plan hits target center - Point	0.00	0.00	13,990.2	-87.0	1,377.6	404,982.61	836,953.54	32° 6' 31.455 N	103° 14' 42.397 W
BHL - Rae's Creek 25 3(- plan misses target center by 1.2usft at 24578.6usft MD (14330.0 TVD, 10262.3 N, 1281.9 E) - Point	0.00	0.00	14,330.0	10,262.3	1,283.1	415,332.00	836,859.00	32° 8' 13.869 N	103° 14' 42.281 W

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
149.0	149.0	30" Conductor Casing	30	36
1,340.0	1,340.0	20" Surface Casing	20	26
5,357.0	5,337.5	13 3/8" Intermediate Casing	13-3/8	17-1/2
11,212.0	11,135.6	9 5/8" Intermediate Casing	9-5/8	12-1/4

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rae's Creek 25 36 22 Fed Com #095H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3081.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3081.5usft
Site:	Rae's Creek	**North Reference:**	Grid
Well:	Rae's Creek 25 36 22 Fed Com #095H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,269.0	1,269.0	Rustler			
1,693.0	1,693.0	Salado			
3,201.1	3,201.0	Tansill/Capitan			
5,306.0	5,287.0	G26: Bell Cyn.			
5,460.5	5,440.0	G13: Cherry Cyn.			
6,404.7	6,375.0	G7: Brushy Cyn.			
7,213.5	7,176.0	G4: BSGL (CS9)			
7,607.4	7,566.0	L8.2: U. Avalon Shale			
7,711.4	7,669.0	L6.3: Avalon Carb			
8,954.5	8,900.0	L5.1: FBSG			
9,026.2	8,971.0	L4.3: SBSC			
9,349.9	9,291.6	L4.1: SBSG			
9,386.7	9,328.0	L3.3: TBSC			
10,626.4	10,555.6	L3.1: TBSG			
10,824.4	10,751.7	L2: WFMP A			
11,161.7	11,085.7	WFMP B			
12,282.5	12,195.6	Morrow			
13,658.1	13,563.0	Barnett			
13,870.8	13,775.7	Miss Lime			
14,219.8	14,100.0	WF			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
13,852.1	13,757.0	-136.7	1,378.1	Start Build 10.00
14,752.1	14,330.0	436.3	1,372.8	Start 9826.5 hold at 14752.1 MD
24,578.6	14,330.0	10,262.3	1,281.9	TD at 24578.6

Matador Production Company

Antelope Ridge
Rae's Creek
Rae's Creek 25 36 22 Fed Com #095H

Wellbore #1
BLM Plan #1

Anticollision Summary Report

08 July, 2025

Anticollision Summary Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rae's Creek 25 36 22 Fed Com #095H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3081.5usft
Reference Site:	Rae's Creek	**MD Reference:**	KB @ 3081.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rae's Creek 25 36 22 Fed Com #095H	**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:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Reference	BLM 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** 7/8/2025

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
1.0	13,852.1	BLM Plan #1 (Pilot Hole)	MWD	OWSG MWD - Standard
13,852.1	24,578.6	BLM Plan #1 (Wellbore #1)	MWD	OWSG MWD - Standard

Summary

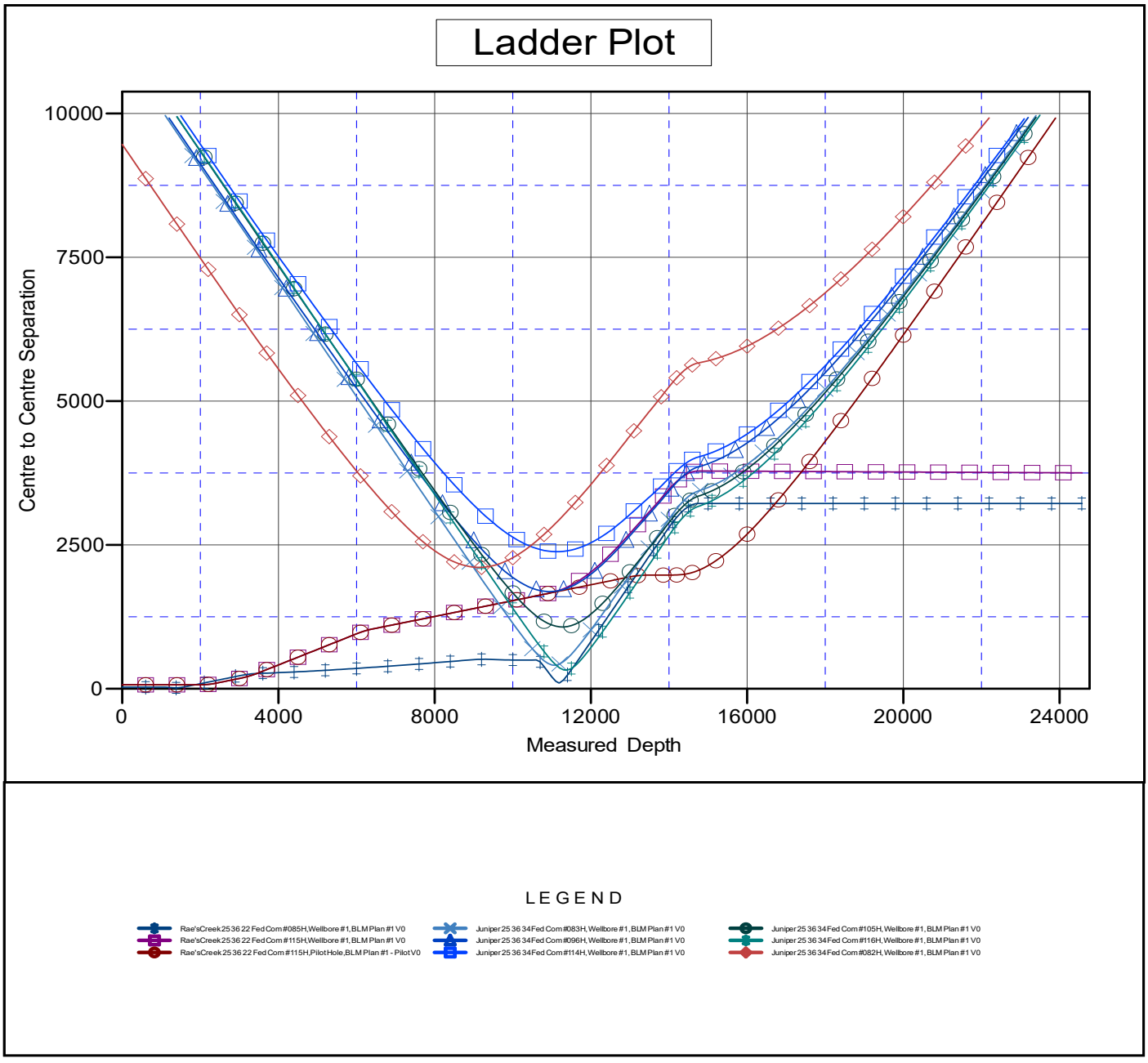
Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Juniper						
Juniper 25 36 34 Fed Com #082H - Wellbore #1 - BLM P	9,143.3	19,972.5	2,110.0	1,904.8	10.280	CC, ES
Juniper 25 36 34 Fed Com #082H - Wellbore #1 - BLM P	9,301.0	19,972.5	2,115.9	1,909.1	10.231	SF
Juniper 25 36 34 Fed Com #083H - Wellbore #1 - BLM P	11,063.8	21,656.2	409.9	217.5	2.131	CC, ES
Juniper 25 36 34 Fed Com #083H - Wellbore #1 - BLM P	11,101.0	21,656.2	411.6	218.0	2.126	SF
Juniper 25 36 34 Fed Com #096H - Wellbore #1 - BLM P	10,944.5	21,697.5	1,689.3	1,475.6	7.907	CC, ES
Juniper 25 36 34 Fed Com #096H - Wellbore #1 - BLM P	11,101.0	21,697.5	1,696.5	1,480.9	7.869	SF
Juniper 25 36 34 Fed Com #105H - Wellbore #1 - BLM P	11,273.5	21,930.1	1,074.4	861.0	5.035	CC
Juniper 25 36 34 Fed Com #105H - Wellbore #1 - BLM P	11,301.0	21,930.1	1,074.7	860.8	5.023	ES, SF
Juniper 25 36 34 Fed Com #114H - Wellbore #1 - BLM P	11,127.8	21,972.5	2,382.6	2,167.9	11.100	CC, ES
Juniper 25 36 34 Fed Com #114H - Wellbore #1 - BLM P	11,301.0	21,972.5	2,388.9	2,172.6	11.046	SF
Juniper 25 36 34 Fed Com #116H - Wellbore #1 - BLM P	11,362.1	21,947.4	323.4	126.6	1.643	CC, ES, SF
Rae's Creek						
Rae's Creek 25 36 22 Fed Com #085H - Wellbore #1 - B	1,380.2	1,380.3	16.2	6.9	1.730	CC, ES
Rae's Creek 25 36 22 Fed Com #085H - Wellbore #1 - B	11,183.9	11,459.8	101.8	21.5	1.268	Level 3, SF
Rae's Creek 25 36 22 Fed Com #115H - Pilot Hole - BLM	2,001.0	2,000.0	70.0	56.1	5.043	CC, ES
Rae's Creek 25 36 22 Fed Com #115H - Pilot Hole - BLM	2,101.0	2,097.7	71.6	57.1	4.916	SF
Rae's Creek 25 36 22 Fed Com #115H - Wellbore #1 - B	2,001.0	2,000.0	70.0	56.1	5.043	CC, ES
Rae's Creek 25 36 22 Fed Com #115H - Wellbore #1 - B	2,101.0	2,097.7	71.6	57.1	4.916	SF

Anticollision Summary Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rae's Creek 25 36 22 Fed Com #095H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3081.5usft
Reference Site:	Rae's Creek	**MD Reference:**	KB @ 3081.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rae's Creek 25 36 22 Fed Com #095H	**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:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to KB @ 3081.5usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Rae's Creek 25 36 22 Fed Com #095H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.58°



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

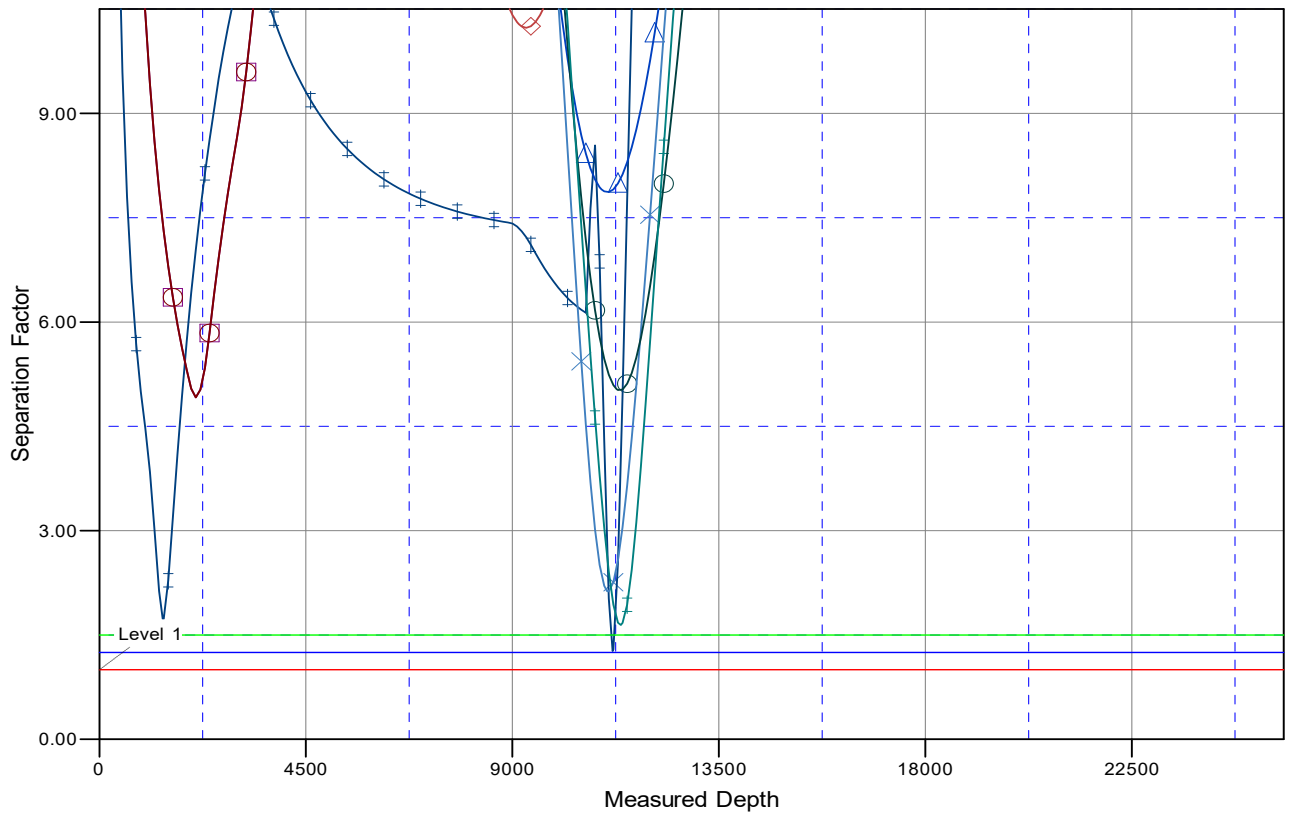
Anticollision Summary Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rae's Creek 25 36 22 Fed Com #095H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3081.5usft
Reference Site:	Rae's Creek	**MD Reference:**	KB @ 3081.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rae's Creek 25 36 22 Fed Com #095H	**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:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to KB @ 3081.5usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Rae's Creek 25 36 22 Fed Com #095H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.58°

Separation Factor Plot



LEGEND

Rae'sCreek25 36 22 Fed Com #085H,Wellbore #1,BLM Plan #1 V0
Rae'sCreek25 36 22 Fed Com #115H,Wellbore #1,BLM Plan #1 V0
Rae'sCreek25 36 22 Fed Com #115H,PilotHole,BLM Plan #1 - Pilot V0
Juniper 25 36 34 Fed Com #083H,Wellbore #1,BLM Plan #1 V0
Juniper 25 36 34 Fed Com #096H,Wellbore #1,BLM Plan #1 V0
Juniper 25 36 34 Fed Com #114H,Wellbore #1,BLM Plan #1 V0
Juniper 25 36 34 Fed Com #105H,Wellbore #1,BLM Plan #1 V0
Juniper 25 36 34 Fed Com #116H,Wellbore #1,BLM Plan #1 V0
Juniper 25 36 34 Fed Com #082H,Wellbore #1,BLM Plan #1 V0

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

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
30-025-54321	98406	WC-025 G-11 S253622P; WOODFORD ~~Wildcat – to be assigned~~

Property Code	Property Name	Well Number
336861	RAE*S CREEK 25 36 22 FED COM	095H

OGRID No.	Operator Name	Ground Level Elevation
228937	MATADOR PRODUCTION COMPANY	3053'

Surface Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal

Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
O	22	25-S	36-E	-	200' S	1710' E	N 32.1091421	W 103.2500150	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
A	15	25-S	36-E	-	110' N	333' E	N 32.1373121	W 103.2455401	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidated Code
320	Defining	NA	N	O

Order Numbers NA

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
P	22	25-S	36-E	-	50' S	333' E	N 32.1087275	W 103.2455681	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
P	22	25-S	36-E	-	100' S	333' E	N 32.1088649	W 103.2455681	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
A	15	25-S	36-E	-	110' N	333' E	N 32.1373121	W 103.2455401	LEA

Unitized Area or Area of Uniform Intrest	Spacing Unity Type	Ground Floor Elevation
NMNM136231	☒ Horizontal ☐ Vertical	3053'

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.

Brett Jennings 11/21/2025

Signature Date

Brett Jennings

Print Name

Brett.Jennings@matadorresources.com

E-mail Address

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. PAEZ NEW MEXICO 25116 7/2/25 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor Date

7/2/25

Certificate Number	Date of Survey
25116	11/03/2022

S:\SURVEY\MIREBELY_OPERATING_LORAE\S_CREEK_FED_COM\FINAL_PRODUCTS\LO_RAE'S_CREEK_25_36_22_FED_COM_095H_REV6.dwg MIKE.WALLER 7/2/2025 8:34 AM

C-102

Submit Electronically
Via OCD Permitting

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

Revised July 9, 2024

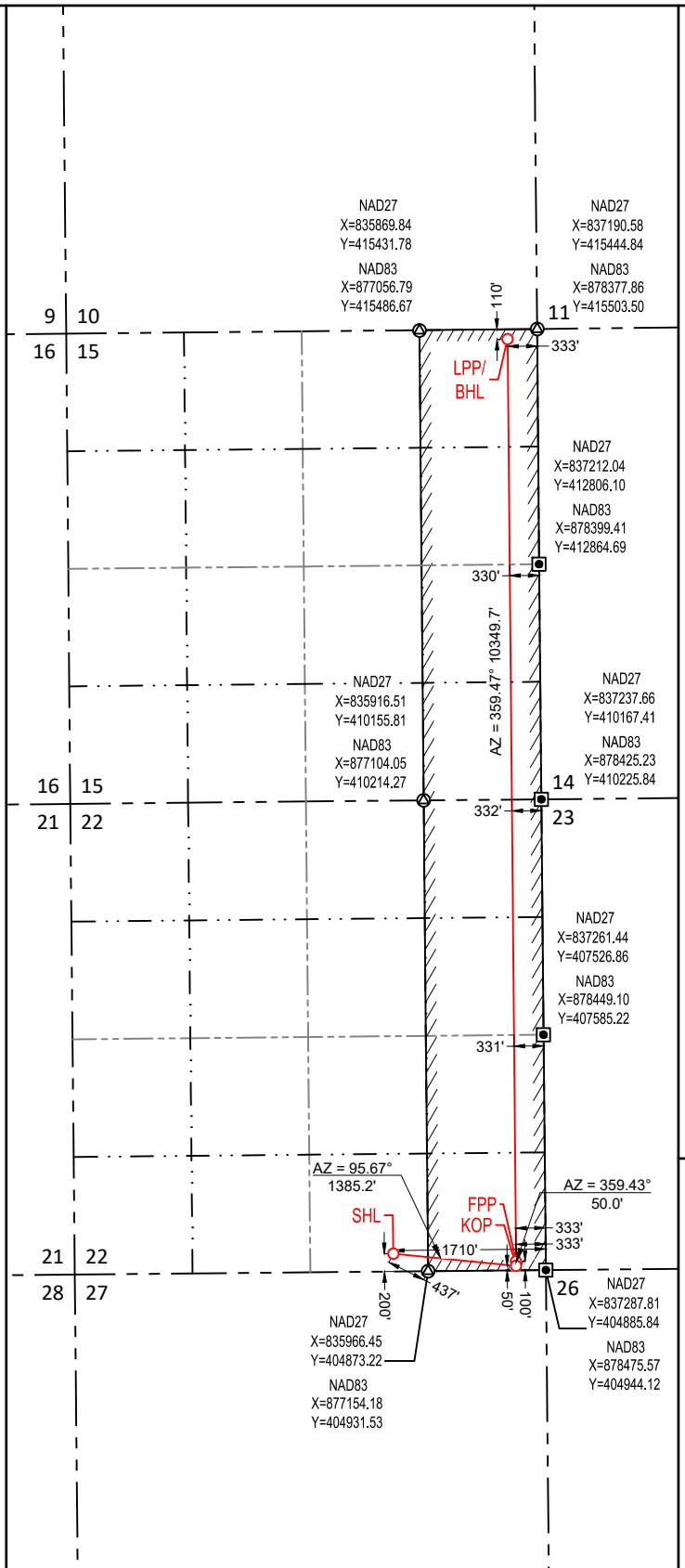
Submittal Type:
- ☐ Initial Submittal
- ☒ Amended Report
- ☐ As Drilled

Property Name and Well Number

RAE'S CREEK 25 36 22 FED COM 095H

SURFACE LOCATION (SHL)
NEW MEXICO EAST
NAD 1983
X=876764 Y=405128
LAT.: N 32.1091421
LONG.: W 103.2500150
NAD 1927
X=835576 Y=405070
LAT.: N 32.1090149
LONG.: W 103.2495558
200' FSL 1710' FEL

KICK OFF POINT (KOP)
NEW MEXICO EAST
NAD 1983
X=878142 Y=404991
LAT.: N 32.1087275
LONG.: W 103.2455681
NAD 1927
X=836954 Y=404933
LAT.: N 32.1086003
LONG.: W 103.2451092
50' FSL 333' FEL



FIRST TAKE POINT (FTP)
NEW MEXICO EAST
NAD 1983
X=878142 Y=405041
LAT.: N 32.1088649
LONG.: W 103.2455681
NAD 1927
X=836954 Y=404983
LAT.: N 32.1087378
LONG.: W 103.2451092
100' FSL 333' FEL

LAST TAKE POINT (LTP)
BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST
NAD 1983
X=878046 Y=415390
LAT.: N 32.1373121
LONG.: W 103.2455401
NAD 1927
X=836859 Y=415332
LAT.: N 32.1371850
LONG.: W 103.2450785
110' FNL 333' FEL

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.

11/03/2022
Date of Survey

Signature and Seal of Professional Surveyor:

ANGEL M. BAEZA
NEW MEXICO
25116
7/2/25
PROFESSIONAL SURVEYOR

S:\SURVEY\AMREDEV_OPERATING_LLC\RAE'S_CREEK_FED_COM\FINAL_PRODUCTS\LO_RAE'S_CREEK_25_36_22_FED_COM_095H_REV1.dwg MIKE.WALLER 7/2/2025 8:39 AM

Matador PRODUCTION COMPANY

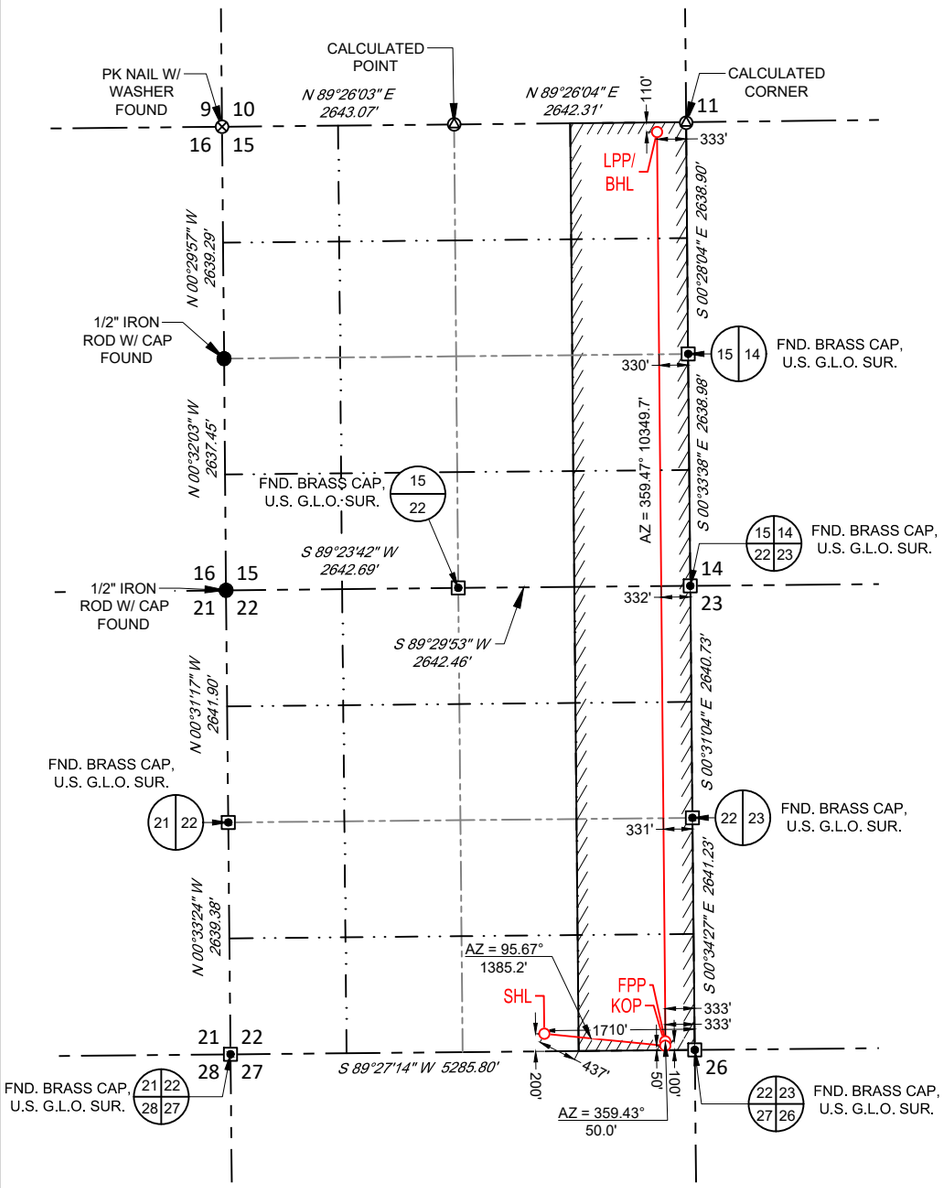
SECTION 22, TOWNSHIP 25-S, RANGE 36-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURFACE LOCATION (SHL)
NEW MEXICO EAST
NAD 1983
X=876764 Y=405128
LAT.: N 32.1091421
LONG.: W 103.2500150
200' FSL 1710' FEL

KICK OFF POINT (KOP)
NEW MEXICO EAST
NAD 1983
X=878142 Y=404991
LAT.: N 32.1087275
LONG.: W 103.2455681
50' FSL 333' FEL

FIRST TAKE POINT (FTP)
NEW MEXICO EAST
NAD 1983
X=878142 Y=405041
LAT.: N 32.1088649
LONG.: W 103.2455681
100' FSL 333' FEL

LAST TAKE POINT (LTP)
BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST
NAD 1983
X=878046 Y=415390
LAT.: N 32.1373121
LONG.: W 103.2455401
110' FNL 333' FEL



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

LEASE NAME & WELL NO.: RAE'S CREEK 25 36 22 FED COM 095H

SECTION 22 TWP 25-S RGE 36-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 200' FSL & 1710' FEL

DISTANCE & DIRECTION
FROM INT. OF NM-128 AND NM-18, GO WEST ON NM-128 ±5.6 MILES, THENCE SOUTH (LEFT) ON A LEASE RD. ±2.0 MILES, THENCE EAST (LEFT) ON A PROPOSED RD. ±9247 FEET TO A POINT ±322 FEET NORTHWEST 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 NEW MEXICO 25116 7/2/25 PROFESSIONAL SURVEYOR

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

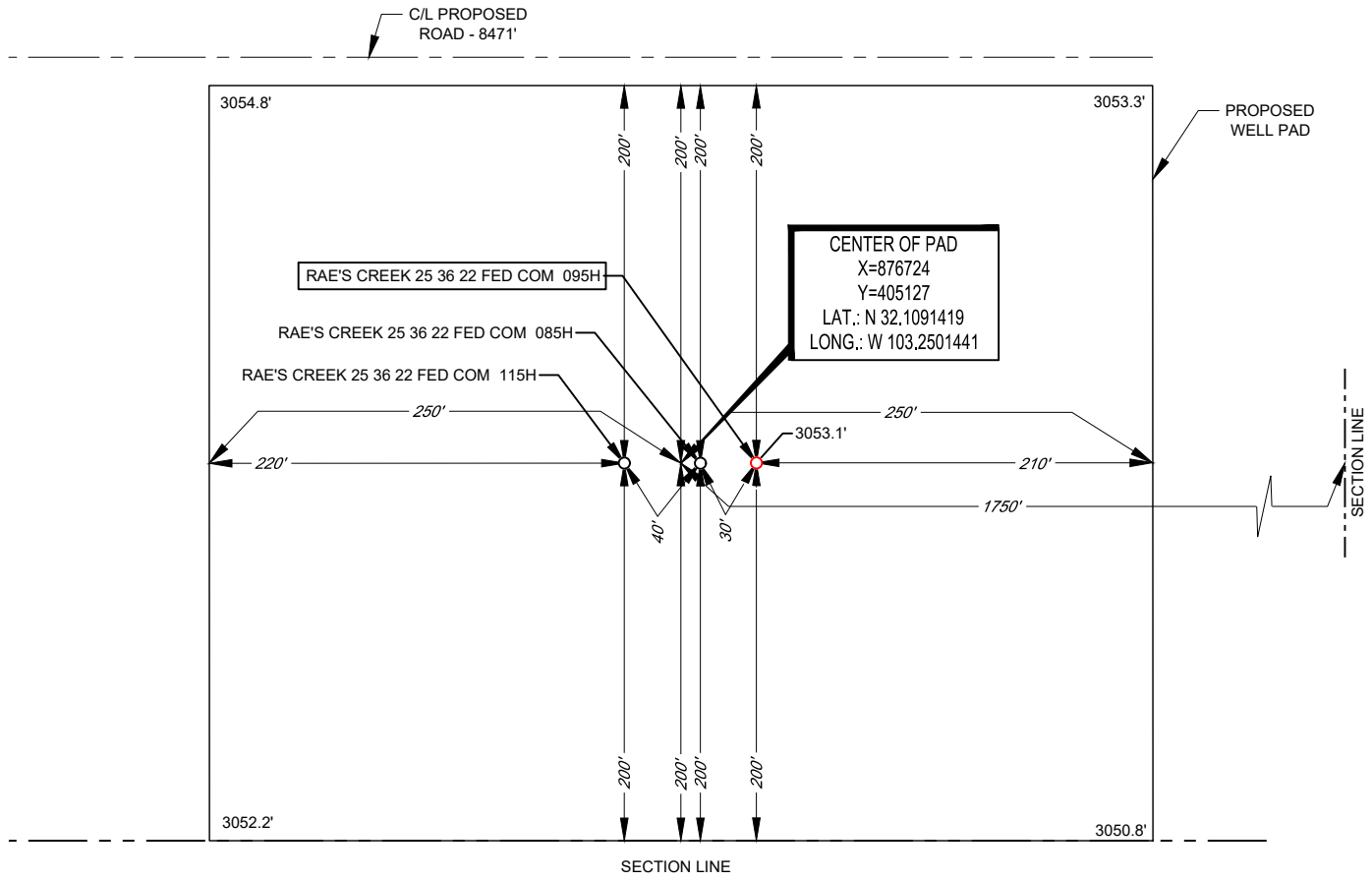
TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

S:\SURVEY\AMEREDEV_OPERATING_LLC\RAE'S_CREEK_FED_COM\FINAL_PRODUCTS\LO_RAE'S_CREEK_25_36_22_FED_COM_095H_REV8.DWG 7/2/2025 8:34:02 AM nicole.childs

LEGEND

SECTION LINE
PROPOSED ROAD

SECTION 22, TOWNSHIP 25-S, RANGE 36-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: RAE'S CREEK 25 36 22 FED COM 095H

095H LATITUDE N 32.1091421 095H LONGITUDE W 103.2500150

CENTER OF PAD IS 200' FSL & 1750' FEL

ANGEL M. BAEZA NEW MEXICO 25116 7/2/25 PROFESSIONAL SURVEYOR

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

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
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

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

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	228937
	Action Number: 528827
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	Directional survey reports the first take point is anticipated to occur within the Mississippian Lime. If production is desired to occur outside of the Woodford formation, a second pool must be added via a [C-103] NOI Change of Plans (C-103A) and a DHC must be approved prior to producing the well.	12/5/2025
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.	12/5/2025
matthew.gomez	This well is within the Capitan Reef. The first intermediate casing string shall be sat and cemented back to surface immediately below the base of the Capitan Reef.	12/5/2025
matthew.gomez	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. (The operator shall notify NMOCD of this switch.)	12/5/2025
matthew.gomez	All previous COA's still apply.	12/5/2025
matthew.gomez	All conducted logs shall be submitted to the OCD.	12/5/2025
matthew.gomez	If cement does not circulate to surface on any string, a Cement Bond Log (CBL) is required for that string of casing. If a CBL is unable to indicate sufficient cement coverage due to a lighter cement, a USI log may also be required. If strata isolation is not achieved, remediation will be required before further operations may commence.	1/9/2026
matthew.gomez	Cement must be in place for at least eight hours and achieve a minimum compressive strength of 500 PSI before performing any further operations on the well.	1/9/2026