

Well Name	Well Number	US Well Number	Lease Number	Case Number	Operator
NINA CORTELL	137H	3002551489	NMNM86147	NMNM86147	MATADOR
NINA CORTELL	126H	3002551188	NMNM86147	NMNM86147	MATADOR
NINA CORTELL	136H	3002551191	NMNM135247	NMNM135247	MATADOR
NINA CORTELL	127H	3002551611	NMNM86147	NMNM86147	MATADOR
NINA CORTELL	128H	3002551462	NMNM86147	NMNM86147	MATADOR
NINA CORTELL	138H	3002550471	NMNM86147	NMNM86147	MATADOR
NINA CORTELL	135H	3002551461	NMNM86147	NMNM86147	MATADOR

Notice of Intent

Sundry ID: 2794834

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 06/11/2024

Time Sundry Submitted: 07:43

Date proposed operation will begin: 06/18/2024

Procedure Description: BLM Bond NMB001079 Surety Bond No.: RLB0015172 Matador requests the option to amend the well design of the Nina Cortell Fed Com #126H, Nina Cortell Fed Com #127H, Nina Cortell Fed Com #128H, Nina Cortell Fed Com #135H, Nina Cortell Fed Com #136H, Nina Cortell Fed Com #137H, and Nina Cortell Fed Com #138H to make the following change to the current APD: Change the production open hole size to 7-7/8" from 0' to KOP and 6-3/4" from KOP to TD.

NOI Attachments

Procedure Description

- Sundry_Plan_Drill_Plan_3st_9.625in_5M_Nina_138H_v2_20240611194154.pdf
- Sundry_Plan_Drill_Plan_3st_9.625in_5M_Nina_137H_v2_20240611194114.pdf
- Sundry_Plan_Drill_Plan_3st_9.625in_5M_Nina_136H_v2_20240611194035.pdf
- Sundry_Plan_Drill_Plan_3st_9.625in_5M_Nina_135H_v2_20240611193959.pdf
- Sundry_Drill_Plan_3st_9.625in_5M_Nina_128H_v2_20240611193903.pdf
- Sundry_Drill_Plan_3st_9.625in_5M_Nina_127H_v2_20240611193837.pdf
- Sundry_Drill_Plan_3st_9.625in_5M_Nina_126H_v2_20240611193803.pdf

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: JUN 11, 2024 07:42 PM

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 Phone: 5752342234

Disposition: Approved

Signature: Chris Walls

BLM POC Title: Petroleum Engineer

BLM POC Email Address: cwalls@blm.gov

Disposition Date: 06/24/2024

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

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.

5. Lease Serial No.
6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well
 Oil Well Gas Well Other
2. Name of Operator
3a. Address 3b. Phone No. (include area code)
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)

7. If Unit of CA/Agreement, Name and/or No.
8. Well Name and No.
9. API Well No.
10. Field and Pool or Exploratory Area
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			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 performed 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 determined 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 OFFICE 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 of this form to U.S. Department of the Interior, Bureau of Land 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

Batch Well Data

NINA CORTELL FED COM 136H, US Well Number: 3002551191, Case Number: NMNM135247, Lease Number: NMNM135247,
Operator:MATADOR PRODUCTION COMPANY

NINA CORTELL FED COM 137H, US Well Number: 3002551489, Case Number: NMNM86147, Lease Number: NMNM86147,
Operator:MATADOR PRODUCTION COMPANY

NINA CORTELL FED COM 138H, US Well Number: 3002550471, Case Number: NMNM86147, Lease Number: NMNM86147,
Operator:MATADOR PRODUCTION COMPANY

NINA CORTELL FED COM 135H, US Well Number: 3002551461, Case Number: NMNM86147, Lease Number: NMNM86147,
Operator:MATADOR PRODUCTION COMPANY

NINA CORTELL FED COM 126H, US Well Number: 3002551188, Case Number: NMNM86147, Lease Number: NMNM86147,
Operator:MATADOR PRODUCTION COMPANY

NINA CORTELL FED COM 127H, US Well Number: 3002551611, Case Number: NMNM86147, Lease Number: NMNM86147,
Operator:MATADOR PRODUCTION COMPANY

NINA CORTELL FED COM 128H, US Well Number: 3002551462, Case Number: NMNM86147, Lease Number: NMNM86147,
Operator:MATADOR PRODUCTION COMPANY

CONFIDENTIAL

Drill Plan

Nina Cortell Fed Com 138H
SHL: 274 FSL & 1260' FEL Section 10
BHL: 110' FNL & 985' FEL Section 3
Township/Range: 22S 32E
Elevation Above Sea Level: 3789

Sundry Request

Matador request the option to amend the well design of the Nina Cortell Fed Com #138H and make the following changes to the current APD:

- Change the production open hole size to 7-7/8" from 0' - KOP and 6-3/4" from KOP - TD

Drilling Operation Plan

Proposed Drilling Depth: 21606' MD / 11450' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.3995586965 N / -103.7898401525 W

TD Lat/Long (NAD83): 32.4280612948 N / -103.7902256610 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	839	839	352	Anhydrite	Barren
Salado (Top of Salt)	1,191	1,191	3,706	Salt	Barren
Lamar (Base of Salt)	4,922	4,897	42	Dolomite	Barren
Bell Canyon	4,964	4,939	903	Sandstone	Oil/Natural Gas
Cherry Canyon	5,867	5,842	1,143	Sandstone	Oil/Natural Gas
Brushy Canyon	7,010	6,985	1,841	Sandstone	Oil/Natural Gas
Bone Spring Lime	8,851	8,826	838	Limestone	Oil/Natural Gas
1st Bone Spring Carb	9,689	9,664	233	Carbonate	Oil/Natural Gas
1st Bone Spring Sand	9,922	9,897	281	Sandstone	Oil/Natural Gas
2nd Bone Spring Carb	10,203	10,178	379	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	10,582	10,557	422	Sandstone	Oil/Natural Gas
KOP	10,903	10,877	-	Sandstone	Oil/Natural Gas
3rd Bone Spring Carb	11,006	10,979	-	Carbonate	Oil/Natural Gas
TD	21,606	11,450		Carbonate	Oil/Natural Gas

2. Notable Zones

Drill Plan

Third Bone Spring Carbonate is the goal. 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 375".

3. Pressure Control

Equipment

A 12,000' 5000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and one annular preventer will be utilized below surface 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 5M BOPE system will be installed. Test pressures will be 250 psi low and 5000 psi high with the annular preventer being tested to 250 psi low and 2500 psi high before drilling below surface shoe. 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 5M 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 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 request the option to offline cement surface casing. The "Offline Cementing - Surface Procedure" 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.

Drill Plan

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	17.5	0 - 975	0 - 975	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	12.25	0 - 5014	0 - 4989	9.625	40	J-55	BUTT	1.125	1.125	1.8
Production	7.875	0 - 10903	0 - 10877	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8
Production	6.75	0 - 21606	0 - 11450	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

- Request option drill 7.875" production hole, cement volumes will be adjusted accordingly.

Variance Request

Matador request a variance to waive the centralizer requirement for 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.

Matador request a variance to utilize a surface setting rig. If this is used, Matador request the option to drill either 17.5" or 20" surface hole, cement volumes will be adjusted accordingly.

Primary Cement Design - DV/Packer 2-Stage Cement

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement (ft)	Class	Blend
Surface	Lead	410	1.72	700	13.5	50%	0	C	5% NaCl + LCM
	Tail	250	1.38	347	14.8	50%	675	C	5% NaCl + LCM
Intermediate 1 w/ DV @ 1025'	Stg 2 Tail	210	1.78	371	13.5	10%	0	A/C	5% NaCl + LCM
	Stg 1 Lead	980	1.84	1798	12.5	50%	0	A/C	Bentonite + 1% CaCl ₂ + 8% NaCl + LCM
	Stg 1 Tail	380	1.33	503	14.8	50%	4014	A/C	5% NaCl + LCM
Production (7-7/8" x 6-3/4")	Lead	350	3.66	1284	11.5	25%	4814	A/C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	850	1.35	1152	13.2	25%	10703	A/C	Fluid Loss + Dispersant + Retarder + LCM

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 (in)	Mud Type	Interval MD (ft)	Density (lb/gal)	Viscosity	Fluid Loss
Surface	17.5	Spud Mud	0 - 975	8.4 - 8.8	28-30	NC
Intermediate 1	12.25	Brine	975 - 5014	9.8 - 10.5	28-30	NC
Production	7.875	OBM/Cut Brine	5014 - 10903	8.8 - 10	30-55	<20
Production	6.75	OBM/Cut Brine	10903 - 21606	8.8 - 10	30-55	<20

6. Cores, Test, & Logs

No core or drill stem test is planned.

No 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. We will be running a Neutron log on one of the wells on each pad.

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Bottom hole pressure is 5954 psi. Maximum anticipated surface pressure is 3435 psi. Expected bottom hole temperature is 163 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.

Nina Cortell Fed Com 137H
SHL: 244 FSL & 1260' FEL Section 10
BHL: 110' FNL & 2307' FEL Section 3
Township/Range: 22S 32E
Elevation Above Sea Level: 3789

Sundry Request

Matador request the option to amend the well design of the Nina Cortell Fed Com #137H and make the following changes to the current APD:

- Change the production open hole size to 7-7/8" from 0' - KOP and 6-3/4" from KOP - TD

Drilling Operation Plan

Proposed Drilling Depth: 21659' MD / 11450' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.3991236519 N / -103.6614793964 W

TD Lat/Long (NAD83): 32.4276834219 N / -103.6615367532 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	839	839	352	Anhydrite	Barren
Salado (Top of Salt)	1,191	1,191	3,706	Salt	Barren
Lamar (Base of Salt)	4,922	4,897	42	Dolomite	Barren
Bell Canyon	4,964	4,939	903	Sandstone	Oil/Natural Gas
Cherry Canyon	5,867	5,842	1,143	Sandstone	Oil/Natural Gas
Brushy Canyon	7,010	6,985	1,841	Sandstone	Oil/Natural Gas
Bone Spring Lime	8,851	8,826	838	Limestone	Oil/Natural Gas
1st Bone Spring Carb	9,689	9,664	233	Carbonate	Oil/Natural Gas
1st Bone Spring Sand	9,922	9,897	281	Sandstone	Oil/Natural Gas
2nd Bone Spring Carb	10,203	10,178	379	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	10,582	10,557	422	Sandstone	Oil/Natural Gas
KOP	10,941	10,877	-	Sandstone	Oil/Natural Gas
3rd Bone Spring Carb	11,045	10,979	-	Carbonate	Oil/Natural Gas
TD	21,659	11,450		Carbonate	Oil/Natural Gas

2. Notable Zones

Third Bone Spring Carbonate is the goal. 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 375".

3. Pressure Control

Equipment

A 12,000' 5000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and one annular preventer will be utilized below surface 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 5M BOPE system will be installed. Test pressures will be 250 psi low and 5000 psi high with the annular preventer being tested to 250 psi low and 2500 psi high before drilling below surface shoe. 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 5M 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 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 request the option to offline cement surface casing. The "Offline Cementing - Surface Procedure" 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.

Drill Plan

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	17.5	0 - 975	0 - 975	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	12.25	0 - 5014	0 - 4989	9.625	40	J-55	BUTT	1.125	1.125	1.8
Production	7.875	0 - 10941	0 - 10877	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8
Production	6.75	0 - 21659	0 - 11450	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

- Request option drill 7.875" production hole, cement volumes will be adjusted accordingly.

Variance Request

Matador request a variance to wave the centralizer requirement for 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.

Matador request a variance to utilize a surface setting rig. If this is used, Matador request the option to drill either 17.5" or 20" surface hole, cement volumes will be adjusted accordingly.

Primary Cement Design - DV/Packer 2-Stage Cement

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement (ft)	Class	Blend
Surface	Lead	410	1.72	700	13.5	50%	0	C	5% NaCl + LCM
	Tail	250	1.38	347	14.8	50%	675	C	5% NaCl + LCM
Intermediate 1 w/ DV @ 1025'	Stg 2 Tail	210	1.78	371	13.5	10%	0	A/C	5% NaCl + LCM
	Stg 1 Lead	980	1.84	1798	12.5	50%	0	A/C	Bentonite + 1% CaCl ₂ + 8% NaCl + LCM
	Stg 1 Tail	380	1.33	503	14.8	50%	4014	A/C	5% NaCl + LCM
Production (7-7/8" x 6-3/4")	Lead	350	3.66	1293	11.5	25%	4814	A/C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	850	1.35	1154	13.2	25%	10741	A/C	Fluid Loss + Dispersant + Retarder + LCM

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 (in)	Mud Type	Interval MD (ft)	Density (lb/gal)	Viscosity	Fluid Loss
Surface	17.5	Spud Mud	0 - 975	8.4 - 8.8	28-30	NC
Intermediate 1	12.25	Brine	975 - 5014	9.8 - 10.5	28-30	NC
Production	7.875	OBM/Cut Brine	5014 - 10941	8.8 - 10	30-55	<20
Production	6.75	OBM/Cut Brine	10941 - 21659	8.8 - 10	30-55	<20

6. Cores, Test, & Logs

No core or drill stem test is planned.

No 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. We will be running a Neutron log on one of the wells on each pad.

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Bottom hole pressure is 5954 psi. Maximum anticipated surface pressure is 3435 psi. Expected bottom hole temperature is 163 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.

Nina Cortell Fed Com 136H
SHL: 242' FSL & 1601' FWL Section 10
BHL: 110' FNL & 1650' FWL Section 3
Township/Range: 22S 32E
Elevation Above Sea Level: 3,790'

Sundry Request

Matador request the option to amend the well design of the Nina Cortell Fed Com #136H and make the following changes to the current APD:

- Change the production open hole size to 7-7/8" from 0' - KOP and 6-3/4" from KOP - TD

Drilling Operation Plan

Proposed Drilling Depth: 21614' MD / 11450' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.3991049 N / -103.6657793 W

TD Lat/Long (NAD83): 32.4276750 N / -103.6658337 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	928	928	324	Anhydrite	Barren
Salado (Top of Salt)	1,252	1,252	1,884	Salt	Barren
Castile	3,149	3,136	1,711	Salt	Barren
Lamar (Base of Salt)	4,860	4,847	267	Salt	Barren
Bell Canyon	5,127	5,113	654	Sandstone	Oil/Natural Gas
Cherry Canyon	5,781	5,767	1,232	Sandstone	Oil/Natural Gas
Brushy Canyon	7,013	6,999	1,790	Sandstone	Oil/Natural Gas
Bone Spring Lime	8,803	8,789	1,087	Limestone	Oil/Natural Gas
1st Bone Spring Sand	9,890	9,876	291	Sandstone	Oil/Natural Gas
2nd Bone Spring Carb	10,180	10,167	378	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	10,559	10,545	412	Sandstone	Oil/Natural Gas
KOP	10,890	10,877	-	Sandstone	Oil/Natural Gas
3rd Bone Spring Carb	10,971	10,958	-	Carbonate	Oil/Natural Gas
TD	21,614	11,450		Carbonate	Oil/Natural Gas

2. Notable Zones

3rd Bone Spring is the goal. 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 375'.

3. Pressure Control

Equipment

A 12,000' 5000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and one annular preventer will be utilized below surface 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 5M BOPE system will be installed. Test pressures will be 250 psi low and 5000 psi high with the annular preventer being tested to 250 psi low and 2500 psi high before drilling below surface shoe. 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 5M 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 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 request the option to offline cement surface casing. The "Offline Cementing - Surface Procedure" 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.

Drill Plan

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	17.5	0 - 975	0 - 975	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	12.25	0 - 4910.2	0 - 4896.8	9.625	40	J-55	BUTT	1.125	1.125	1.8
Production	7.875	0 - 10890	0 - 10877	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8
Production	6.75	0 - 21614	0 - 11450	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

- Request option drill 7.875" production hole, cement volumes will be adjusted accordingly.

Variance Request

Matador request a variance to waive the centralizer requirement for 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.

Matador request a variance to utilize a surface setting rig. If this is used, Matador request the option to drill either 17.5" or 20" surface hole, cement volumes will be adjusted accordingly.

Primary Cement Design - DV/Packer 2-Stage Cement

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement (ft)	Class	Blend
Surface	Lead	410	1.72	700	13.5	50%	0	C	5% NaCl + LCM
	Tail	250	1.38	347	14.8	50%	675	C	5% NaCl + LCM
Intermediate 1 w/ DV @ 1025'	Stg 2 Tail	210	1.78	371	13.5	10%	0	A/C	5% NaCl + LCM
	Stg 1 Lead	960	1.84	1758	12.5	50%	0	A/C	Bentonite + 1% CaCl ₂ + 8% NaCl + LCM
	Stg 1 Tail	370	1.33	494	14.8	50%	3928	A/C	5% NaCl + LCM
Production (7-7/8" x 6-3/4")	Lead	360	3.66	1304	11.5	25%	4710	A/C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	860	1.35	1154	13.2	25%	10690	A/C	Fluid Loss + Dispersant + Retarder + LCM

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 (in)	Mud Type	Interval MD (ft)	Density (lb/gal)	Viscosity	Fluid Loss
Surface	17.5	Spud Mud	0 - 975	8.4 - 8.8	28-30	NC
Intermediate 1	12.25	Brine	975 - 4910.2	9.8 - 10.5	28-30	NC
Production	7.875	OBM/Cut Brine	4910.2 - 10890	8.8 - 10	30-55	<20
Production	6.75	OBM/Cut Brine	10890 - 21614	8.8 - 10	30-55	<20

6. Cores, Test, & Logs

No core or drill stem test is planned.

No 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. We will be running a Neutron log on one of the wells on each pad.

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Bottom hole pressure is 5954 psi. Maximum anticipated surface pressure is 3435 psi. Expected bottom hole temperature is 163 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.

Nina Cortell Fed Com 135H
SHL: 272' FSL & 1681' FWL Section 10
BHL: 110' FNL & 330' FWL Section 3
Township/Range: 22S 32E
Elevation Above Sea Level: 3,790'

Sundry Request

Matador request the option to amend the well design of the Nina Cortell Fed Com #135H and make the following changes to the current APD:

- Change the production open hole size to 7-7/8" from 0' - KOP and 6-3/4" from KOP - TD

Drilling Operation Plan

Proposed Drilling Depth: 21748' MD / 11450' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.3990858 N / -103.6700603 W

TD Lat/Long (NAD83): 32.4276689 N / -103.6701105 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	928	928	324	Anhydrite	Barren
Salado (Top of Salt)	1,252	1,252	1,883	Salt	Barren
Castile	3,141	3,135	1,711	Salt	Barren
Lamar (Base of Salt)	4,867	4,846	267	Salt	Barren
Bell Canyon	5,137	5,113	654	Sandstone	Oil/Natural Gas
Cherry Canyon	5,801	5,767	1,232	Sandstone	Oil/Natural Gas
Brushy Canyon	7,047	6,999	1,790	Sandstone	Oil/Natural Gas
Bone Spring Lime	8,846	8,789	1,087	Limestone	Oil/Natural Gas
1st Bone Spring Sand	9,934	9,876	290	Sandstone	Oil/Natural Gas
2nd Bone Spring Carb	10,225	10,166	379	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	10,603	10,545	412	Sandstone	Oil/Natural Gas
KOP	10,935	10,877	-	Sandstone	Oil/Natural Gas
3rd Bone Spring Carb	11,016	10,957	-	Carbonate	Oil/Natural Gas
TD	21,748	11,450		Carbonate	Oil/Natural Gas

2. Notable Zones

3rd Bone Spring is the goal. 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 375'.

3. Pressure Control

Equipment

A 12,000' 5000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and one annular preventer will be utilized below surface 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 5M BOPE system will be installed. Test pressures will be 250 psi low and 5000 psi high with the annular preventer being tested to 250 psi low and 2500 psi high before drilling below surface shoe. 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 5M 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 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 request the option to offline cement surface casing. The "Offline Cementing - Surface Procedure" 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.

Drill Plan

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	17.5	0 - 975	0 - 975	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	12.25	0 - 4917	0 - 4896	9.625	40	J-55	BUTT	1.125	1.125	1.8
Production	7.875	0 - 10935	0 - 10877	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8
Production	6.75	0 - 21748	0 - 11450	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

- Request option drill 7.875" production hole, cement volumes will be adjusted accordingly.

Variance Request

Matador request a variance to wave the centralizer requirement for 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.

Matador request a variance to utilize a surface setting rig. If this is used, Matador request the option to drill either 17.5" or 20" surface hole, cement volumes will be adjusted accordingly.

Primary Cement Design - DV/Packer 2-Stage Cement

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement (ft)	Class	Blend
Surface	Lead	410	1.72	700	13.5	50%	0	C	5% NaCl + LCM
	Tail	250	1.38	347	14.8	50%	675	C	5% NaCl + LCM
Intermediate 1 w/ DV @ 1025'	Stg 2 Tail	210	1.78	371	13.5	10%	0	A/C	5% NaCl + LCM
	Stg 1 Lead	960	1.84	1761	12.5	50%	0	A/C	Bentonite + 1% CaCl ₂ + 8% NaCl + LCM
	Stg 1 Tail	370	1.33	495	14.8	50%	3934	A/C	5% NaCl + LCM
Production (7-7/8" x 6-3/4")	Lead	360	3.66	1312	11.5	25%	4717	A/C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	860	1.35	1164	13.2	25%	10735	A/C	Fluid Loss + Dispersant + Retarder + LCM

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 (in)	Mud Type	Interval MD (ft)	Density (lb/gal)	Viscosity	Fluid Loss
Surface	17.5	Spud Mud	0 - 975	8.4 - 8.8	28-30	NC
Intermediate 1	12.25	Brine	975 - 4917	9.8 - 10.5	28-30	NC
Production	7.875	OBM/Cut Brine	4917 - 10935	8.8 - 10	30-55	<20
Production	6.75	OBM/Cut Brine	10935 - 21748	8.8 - 10	30-55	<20

6. Cores, Test, & Logs

No core or drill stem test is planned.

No 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. We will be running a Neutron log on one of the wells on each pad.

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Bottom hole pressure is 5954 psi. Maximum anticipated surface pressure is 3435 psi. Expected bottom hole temperature is 163 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.

Nina Cortell Fed Com 128H
SHL: 274' FSL & 1229' FEL Section 10
BHL: 60' FNL & 660' FEL Section 3
Township/Range: 22S 32E
Elevation Above Sea Level: 3,789'

Sundry Request

Matador request the option to amend the well design of the Nina Cortell Fed Com #128H and make the following changes to the current APD:

- Change the production open hole size to 7-7/8" from 0' - KOP and 6-3/4" from KOP - TD

Drilling Operation Plan

Proposed Drilling Depth: 21204' MD / 10933' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.39914357511785 N / -103.6566732907736 W

TD Lat/Long (NAD83): 32.42784524583518 N / -103.65620066187077 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	839	839	352	Anhydrite	Barren
Salado (Top of Salt)	1,191	1,191	1,944	Salt	Barren
Castile	3,149	3,135	1,762	Salt	Barren
Lamar (Base of Salt)	4,921	4,897	42	Salt	Barren
Bell Canyon	4,963	4,939	903	Sandstone	Oil/Natural Gas
Cherry Canyon	5,873	5,842	1,143	Sandstone	Oil/Natural Gas
Brushy Canyon	7,016	6,985	1,841	Sandstone	Oil/Natural Gas
Bone Spring Lime	8,857	8,826	1,071	Limestone	Oil/Natural Gas
1st Bone Spring Sand	9,928	9,897	281	Sandstone	Oil/Natural Gas
2nd Bone Spring Carb	10,209	10,178	379	Carbonate	Oil/Natural Gas
KOP	10,422	10,392	-	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	10,590	10,557	-	Sandstone	Oil/Natural Gas
TD	21,204	10,933		Sandstone	Oil/Natural Gas

2. Notable Zones

2nd Bone Spring Sand is the goal. 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 375".

3. Pressure Control

Equipment

A 12,000' 5000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and one annular preventer will be utilized below surface 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 5M BOPE system will be installed. Test pressures will be 250 psi low and 5000 psi high with the annular preventer being tested to 250 psi low and 2500 psi high before drilling below surface shoe. 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 5M 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 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 request the option to offline cement surface casing. The "Offline Cementing - Surface Procedure" 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 (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	17.5	0 - 975	0 - 975	13.375	54.5	J-55	BUTT	1.125	1.125	1.8

Drill Plan

Intermediate 1	12.25	0 - 4971	0 - 4947	9.625	40	J-55	BUTT	1.125	1.125	1.8
Production	7.875	0 - 10422	0 - 10392	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8
Production	6.75	0 - 21204	0 - 10933	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
- Request option drill 7.875" production hole, cement volumes will be adjusted accordingly.

Variance Request

Matador request a variance to wave the centralizer requirement for 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.

Matador request a variance to utilize a surface setting rig. If this is used, Matador request the option to drill either 17.5" or 20" surface hole, cement volumes will be adjusted accordingly.

Primary Cement Design - DV/Packer 2-Stage Cement

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement (ft)	Class	Blend
Surface	Lead	410	1.72	700	13.5	50%	0	C	5% NaCl + LCM
	Tail	250	1.38	347	14.8	50%	675	C	5% NaCl + LCM
Intermediate 1 w/ DV @ 1025'	Stg 2 Tail	210	1.78	371	13.5	10%	0	A/C	5% NaCl + LCM
	Stg 1 Lead	970	1.84	1781	12.5	50%	0	A/C	Bentonite + 1% CaCl ₂ + 8% NaCl + LCM
	Stg 1 Tail	380	1.33	500	14.8	50%	3977	A/C	5% NaCl + LCM
Production (7-7/8" x 6-3/4")	Lead	320	3.66	1189	11.5	25%	4771	A/C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	860	1.35	1160	13.2	25%	10222	A/C	Fluid Loss + Dispersant + Retarder + LCM

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.

Drill Plan

Hole Section	Hole Size (in)	Mud Type	Interval MD (ft)	Density (lb/gal)	Viscosity	Fluid Loss
Surface	17.5	Spud Mud	0 - 975	8.4 - 8.8	28-30	NC
Intermediate 1	12.25	Brine	975 - 4971	9.8 - 10.5	28-30	NC
Production	7.875	OBM/Cut Brine	4971 - 10422	8.8 - 10	30-55	<20
Production	6.75	OBM/Cut Brine	10422 - 21204	8.8 - 10	30-55	<20

6. Cores, Test, & Logs

No core or drill stem test is planned.

No 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. We will be running a Neutron log on one of the wells on each pad.

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Bottom hole pressure is 5685 psi. Maximum anticipated surface pressure is 3280 psi. Expected bottom hole temperature is 163 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.

Nina Cortell Fed Com 127H
SHL: 244' FSL & 1229' FEL Section 10
BHL: 60' FNL & 1980' FEL Section 3
Township/Range: 22S 32E
Elevation Above Sea Level: 3,789'

Sundry Request

Matador request the option to amend the well design of the Nina Cortell Fed Com #127H and make the following changes to the current APD:

- Change the production open hole size to 7-7/8" from 0' - KOP and 6-3/4" from KOP - TD

Drilling Operation Plan

Proposed Drilling Depth: 21130' MD / 10851' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.3991251748249 N / -103.66042531204583 W

TD Lat/Long (NAD83): 32.4278264328119 N / -103.66047859687673 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	839	839	352	Anhydrite	Barren
Salado (Top of Salt)	1,191	1,191	1,944	Salt	Barren
Castile	3,149	3,135	1,762	Salt	Barren
Lamar (Base of Salt)	4,926	4,897	42	Salt	Barren
Bell Canyon	4,968	4,939	903	Sandstone	Oil/Natural Gas
Cherry Canyon	5,880	5,842	1,143	Sandstone	Oil/Natural Gas
Brushy Canyon	7,034	6,985	1,841	Sandstone	Oil/Natural Gas
Bone Spring Lime	8,879	8,826	1,071	Limestone	Oil/Natural Gas
1st Bone Spring Sand	9,950	9,897	281	Sandstone	Oil/Natural Gas
2nd Bone Spring Carb	10,231	10,178	379	Carbonate	Oil/Natural Gas
KOP	10,362	10,310	-	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	10,618	10,557	-	Sandstone	Oil/Natural Gas
TD	21,130	10,851		Sandstone	Oil/Natural Gas

2. Notable Zones

2nd Bone Spring Sand is the goal. 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 375".

3. Pressure Control

Equipment

A 12,000' 5000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and one annular preventer will be utilized below surface 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 5M BOPE system will be installed. Test pressures will be 250 psi low and 5000 psi high with the annular preventer being tested to 250 psi low and 2500 psi high before drilling below surface shoe. 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 5M 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 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 request the option to offline cement surface casing. The "Offline Cementing - Surface Procedure" 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 (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	17.5	0 - 975	0 - 975	13.375	54.5	J-55	BUTT	1.125	1.125	1.8

Drill Plan

Intermediate 1	12.25	0 - 4976	0 - 4947	9.625	40	J-55	BUTT	1.125	1.125	1.8
Production	7.875	0 - 10362	0 - 10310	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8
Production	6.75	0 - 21130	0 - 10851	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
- Request option drill 7.875" production hole, cement volumes will be adjusted accordingly.

Variance Request

Matador request a variance to wave the centralizer requirement for 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.

Matador request a variance to utilize a surface setting rig. If this is used, Matador request the option to drill either 17.5" or 20" surface hole, cement volumes will be adjusted accordingly.

Primary Cement Design - DV/Packer 2-Stage Cement

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement (ft)	Class	Blend
Surface	Lead	410	1.72	700	13.5	50%	0	C	5% NaCl + LCM
	Tail	250	1.38	347	14.8	50%	675	C	5% NaCl + LCM
Intermediate 1 w/ DV @ 1025'	Stg 2 Tail	210	1.78	371	13.5	10%	0	A/C	5% NaCl + LCM
	Stg 1 Lead	970	1.84	1783	12.5	50%	0	A/C	Bentonite + 1% CaCl ₂ + 8% NaCl + LCM
	Stg 1 Tail	380	1.33	500	14.8	50%	3981	A/C	5% NaCl + LCM
Production (7-7/8" x 6-3/4")	Lead	320	3.66	1175	11.5	25%	4776	A/C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	860	1.35	1159	13.2	25%	10162	A/C	Fluid Loss + Dispersant + Retarder + LCM

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.

Drill Plan

Hole Section	Hole Size (in)	Mud Type	Interval MD (ft)	Density (lb/gal)	Viscosity	Fluid Loss
Surface	17.5	Spud Mud	0 - 975	8.4 - 8.8	28-30	NC
Intermediate 1	12.25	Brine	975 - 4976	9.8 - 10.5	28-30	NC
Production	7.875	OBM/Cut Brine	4976 - 10362	8.8 - 10	30-55	<20
Production	6.75	OBM/Cut Brine	10362 - 21130	8.8 - 10	30-55	<20

6. Cores, Test, & Logs

No core or drill stem test is planned.

No 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. We will be running a Neutron log on one of the wells on each pad.

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Bottom hole pressure is 5643 psi. Maximum anticipated surface pressure is 3255 psi. Expected bottom hole temperature is 163 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.

Drill Plan

Nina Cortell Fed Com 126H
SHL: 242' FSL & 1681' FWL Section 10
BHL: 60' FNL & 1980' FWL Section 3
Township/Range: 22S 32E
Elevation Above Sea Level: 3,790'

Sundry Request

Matador request the option to amend the well design of the Nina Cortell Fed Com #126H and make the following changes to the current APD:

- Change the production open hole size to 7-7/8" from 0' - KOP and 6-3/4" from KOP - TD

Drilling Operation Plan

Proposed Drilling Depth: 21094' MD / 10851' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.3992471 N / -103.6647146 W

TD Lat/Long (NAD83): 32.4278139 N / -103.6647633 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	928	928	324	Anhydrite	Barren
Salado (Top of Salt)	1,252	1,252	1,883	Salt	Barren
Castile	3,149	3,135	1,711	Salt	Barren
Lamar (Base of Salt)	4,869	4,846	267	Salt	Barren
Bell Canyon	5,135	5,113	654	Sandstone	Oil/Natural Gas
Cherry Canyon	5,790	5,767	1,232	Sandstone	Oil/Natural Gas
Brushy Canyon	7,021	6,999	1,790	Sandstone	Oil/Natural Gas
Bone Spring Lime	8,811	8,789	1,087	Limestone	Oil/Natural Gas
1st Bone Spring Sand	9,898	9,876	290	Sandstone	Oil/Natural Gas
2nd Bone Spring Carb	10,189	10,166	379	Carbonate	Oil/Natural Gas
KOP	10,324	10,301	-	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	10,576	10,545	-	Sandstone	Oil/Natural Gas
TD	21,094	10,851		Sandstone	Oil/Natural Gas

2. Notable Zones

2nd Bone Spring is the goal. 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 375'.

3. Pressure Control

Equipment

A 12,000' 5000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and one annular preventer will be utilized below surface casing to TD. See attachments for BOP and choke manifold diagrams.

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Testing Procedure

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String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	17.5	0 - 975	0 - 975	13.375	54.5	J-55	BUTT	1.125	1.125	1.8

Drill Plan

Intermediate 1	12.25	0 - 4919	0 - 4896	9.625	40	J-55	BUTT	1.125	1.125	1.8
Production	7.875	0 - 10324	0 - 10301	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8
Production	6.75	0 - 21094	0 - 10851	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

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	Stg 1 Lead	960	1.84	1761	12.5	50%	0	A/C	Bentonite + 1% CaCl ₂ + 8% NaCl + LCM
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Production (7-7/8" x 6-3/4")	Lead	320	3.66	1179	11.5	25%	4719	A/C	Fluid Loss + Dispersant + Retarder + LCM
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6. Cores, Test, & Logs

No core or drill stem test is planned.

No 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. We will be running a Neutron log on one of the wells on each pad.

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 390275

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 390275
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
dmcclure	None	2/5/2025