

Form 3160-5  
(June 2019)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM 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"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Subsequent Report	<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"/> Final Abandonment Notice	<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 recompleat 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 recompleat 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 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

### Location of Well

0. SHL: NWNW / 430 FNL / 594 FWL / TWSP: 26S / RANGE: 31E / SECTION: 15 / LAT: 32.0489427 / LONG: -103.7727387 ( TVD: 0 feet, MD: 0 feet )

PPP: NWNW / 100 FNL / 330 FWL / TWSP: 26S / RANGE: 31E / SECTION: 15 / LAT: 32.0498485 / LONG: -103.7735899 ( TVD: 9169 feet, MD: 9523 feet )

PPP: NWNW / 0 FNL / 330 FWL / TWSP: 26S / RANGE: 31E / SECTION: 22 / LAT: 32.0354661 / LONG: -103.773545 ( TVD: 9169 feet, MD: 14755 feet )

BHL: SWSW / 100 FSL / 330 FWL / TWSP: 26S / RANGE: 31E / SECTION: 22 / LAT: 32.0210893 / LONG: -103.7735036 ( TVD: 9169 feet, MD: 19466 feet )

CONFIDENTIAL

Well Name: BOROS FED COM	Well Location: T26S / R31E / SEC 15 / NWNW / 32.0489427 / -103.7727387	County or Parish/State: EDDY / NM
Well Number: 111H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM138865	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001546864	Well Status: Approved Application for Permit to Drill	Operator: MATADOR PRODUCTION COMPANY

Notice of Intent

Sundry ID: 2504322

Type of Submission: Notice of Intent	Type of Action: Other
Date Sundry Submitted: 06/21/2021	Time Sundry Submitted: 01:43
Date proposed operation will begin: 09/14/2021	

**Procedure Description:** BLM Bond No.: NMB001079 Surety Bond No.: RLB0015172 \*\*Per WIS Submission #531638 submitted 9/25/2020; Matador request to the option to amend the casing and cement design to the attached plan. Add option to slim down 9-5/8" casing to 7-5/8" casing and deepen. Update production casing connection to TLW-SC. Please see the supporting documentation attached and contact Blake Hermes at 972-371-5485 or bhermes@matadorresources.com for any questions.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Boros\_Fed\_Com\_111H\_Drill\_Plan\_20210621134112.pdf
- Boros\_Fed\_Com\_111H\_Casing\_Specs\_5.5in\_20lb\_Hunting\_TLW\_SC\_20210621134112.pdf
- Boros\_Fed\_Com\_111H\_Casing\_Table\_Spec\_20210621134112.pdf
- Sundry\_Submitted\_\_531638\_20210621134009.pdf

<b>Well Name:</b> BOROS FED COM	<b>Well Location:</b> T26S / R31E / SEC 15 / NWNW / 32.0489427 / -103.7727387	<b>County or Parish/State:</b> EDDY / NM
<b>Well Number:</b> 111H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM138865	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3001546864	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> MATADOR PRODUCTION COMPANY

Conditions of Approval

Additional Reviews

BOROS\_FEDERAL\_111H\_APD\_Calculations\_Sundry\_20220403173230.pdf  
BOROS\_FEDERAL\_111H\_Sundry\_COA\_20220403173223.pdf

Operator Certification

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 submission of Form 3160-5 or a Sundry Notice.

<b>Operator Electronic Signature:</b> NICKY FITZGERALD	<b>Signed on:</b> JUN 21, 2021 01:43 PM
<b>Name:</b> MATADOR PRODUCTION COMPANY	
<b>Title:</b> Regulatory	
<b>Street Address:</b> 5400 LBJ FREEWAY STE 1500	
<b>City:</b> DALLAS	<b>State:</b> TX
<b>Phone:</b> (972) 371-5448	
<b>Email address:</b> nicky.fitzgerald@matadorresources.com	

Field Representative

<b>Representative Name:</b>		
<b>Street Address:</b>		
<b>City:</b>	<b>State:</b>	<b>Zip:</b>
<b>Phone:</b>		
<b>Email address:</b>		

BLM Point of Contact

<b>BLM POC Name:</b> CHRISTOPHER WALLS	<b>BLM POC Title:</b> Petroleum Engineer
<b>BLM POC Phone:</b> 5752342234	<b>BLM POC Email Address:</b> cwalls@blm.gov
<b>Disposition:</b> Approved	<b>Disposition Date:</b> 04/08/2022
<b>Signature:</b> Chris Walls	

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	<b>MATADOR PRODUCTION COMPANY</b>
<b>LEASE NO.:</b>	<b>NMNM138865</b>
<b>WELL NAME &amp; NO.:</b>	<b>BOROS FEDERAL 111H</b>
<b>SURFACE HOLE FOOTAGE:</b>	400'/N & 704'/W
<b>BOTTOM HOLE FOOTAGE:</b>	100'/S & 330'/W
<b>LOCATION:</b>	Section 15, T.26 S., R.31 E., NMPM
<b>COUNTY:</b>	Eddy County, New Mexico

COA

H2S	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input type="radio"/> Medium	<input checked="" type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit

**All Previous COAs Still Apply.**

### CASING

- The **7-5/8** inch intermediate casing shall be set at **8524 feet**. The minimum required fill of cement behind the **7-5/8** 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 cave/karst or potash.**

# RI04032022



152631 C SUNDRY-2629255 BOROS FEDERAL 111H EDDY NMNM138865 Matador 13-22 04032022 RI SUNDRY

## BOROS FEDERAL 111H

13 3/8	surface csg in a	17 1/2	inch hole.	Design Factors					Surface		
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	54.50	J 55	BTC	11.56	1.83	0.66	1,354	5	1.19	3.52	73,793
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,320			Tail Cmt	does not	circ to sfc.		Totals:	1,354	73,793		
Comparison of Proposed to Minimum Required Cement Volumes											
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Min Dist			
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	Req'd	Hole-Cplg		
17 1/2	0.6946	930	1515	941	61	8.80	2287	3M	1.56		
Class 'C' tail cmt yield above 1.35.											
Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK.											
Site plat (pipe racks S or E) as per O.O.I.III.D.4.L not found.											

7 5/8	casing inside the	13 3/8	Design Factors					Int 1			
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@S	a-B	a-C	Weight
"A"	29.70	P 110	BTC	3.71	1.29	2.11	8,524	2	3.85	2.34	253,163
w/8.4#/g mud, 30min Sfc Csg Test psig:							Totals:	8,524			253,163
The cement volume(s) are intended to achieve a top of				0	ft from surface or a		1354			overlap.	
Hole	Annular	1 Stage	Min	1 Stage	Drilling	Calc	Req'd			Min Dist	
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg		
9 7/8	0.2148	990	3099	2286	36	9.40	2461	3M	0.69		
Class 'H' tail cmt yld > 1.20											

5 1/2 casing inside the 7 5/8			Design Factors					Prod 1				
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight	
"A"	20.00	P 110	TLW	2.80	2.58	3.21	19,474	3	5.84	5.29	389,480	
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,018							Totals:	19,474			389,480	
The cement volume(s) are intended to achieve a top of				8498	ft from surface or a			26			overlap.	
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd			Min Dist	
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE			Hole-Cplg	
6 3/4	0.0835	760	1049	917	14	9.40						0.44
Class 'C' tail cmt yld > 1.35							More cement may be needed.					

#N/A



Well Name: BOROS FED COM	Well Location: T26S / R31E / SEC 15 / NWNW / 32.0489427 / -103.7727387	County or Parish/State: EDDY / NM
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Lease Number: NMNM138865	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001546864	Well Status: Approved Application for Permit to Drill	Operator: MATADOR PRODUCTION COMPANY

Notice of Intent

Type of Submission: Notice of Intent	Type of Action Other
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<b>Well Name:</b> BOROS FED COM	<b>Well Location:</b> T26S / R31E / SEC 15 / NWNW / 32.0489427 / -103.7727387	<b>County or Parish/State:</b> EDDY / NM
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<b>Lease Number:</b> NMNM138865	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3001546864	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> MATADOR PRODUCTION COMPANY

Operator Certification

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**Operator Electronic Signature:** NICKY FITZGERALD

**Signed on:** JUN 21, 2021 01:43 PM

**Name:** MATADOR PRODUCTION COMPANY

**Title:** Regulatory

**Street Address:** 5400 LBJ FREEWAY STE 1500

**City:** DALLAS

**State:** TX

**Phone:** (972) 371-5448

**Email address:** nicky.fitzgerald@matadorresources.com

Field Representative

**Representative Name:**

**Street Address:**

**City:**

**State:**

**Zip:**

**Phone:**

**Email address:**



# 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	in <sup>2</sup>
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



## Casing Table Specification Sheet

**Boros Fed Com 111H**

**SHL: 400' FNL & 704' FWL Section 15**

**BHL: 100' FSL & 330' FWL Section 22**

**Township/Range: 26S 31E**

**Elevation Above Sea Level: 3232**

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 - 1354	0 - 1354	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 8524	0 - 8524	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	6.75	0 - 19474	0 - 9171	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

**Boros Fed Com 111H**  
**SHL: 400' FNL & 704' FWL Section 15**  
**BHL: 100' FSL & 330' FWL Section 22**  
**Township/Range: 26S 31E**  
**Elevation Above Sea Level: 3232**

### Drilling Operation Plan

Proposed Drilling Depth: 19474' MD / 9171' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.049983806450896 N / -103.7730955451604 W

TD Lat/Long (NAD83): 32.021089245787294 N / -103.77350355448475 W

### 1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	1,329	1,329	184	Anhydrite	Barren
Top of Salt	1,513	1,513	1,878	Salt	Barren
Base of Salt	3,391	3,391	685	Salt	Barren
Bell Canyon	4,076	4,076	30	Sandstone	Oil/Natural Gas
Cherry Canyon	4,106	4,106	1,107	Sandstone	Oil/Natural Gas
Brushy Canyon	5,213	5,213	1,158	Sandstone	Oil/Natural Gas
Bone Spring Lime	6,371	6,371	1,695	Limestone	Oil/Natural Gas
Avalon	8,066	8,066	964	Sandstone	Oil/Natural Gas
<b>KOP</b>	<b>8,624</b>	<b>8,594</b>	-	<b>Sandstone</b>	<b>Oil/Natural Gas</b>
1st Bone Spring Sand	9,114	9,030	-	Sandstone	Oil/Natural Gas
<b>TD</b>	<b>19,474</b>	<b>9,171</b>		<b>Sandstone</b>	<b>Oil/Natural Gas</b>

### 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 230'.

### 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 Onshore Order #2 requirements for the pressure rating of the BOP stack will be present. A rotating head will also be installed as needed.

#### Testing Procedure

**Drill Plan**

BOP will be inspected and operated as required in Onshore Order #2. 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.

**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 - 1354	0 - 1354	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 8524	0 - 8524	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	6.75	0 - 19474	0 - 9171	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

- All casing strings will be tested in accordance with Onshore Order #2 - III.B.1.h
- 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 to deepen Intermediate 1 set depth into curve, no changes in pipe weight or grade is necessary.

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.

Matador request option to perform a bradenhead cement squeeze on Intermediate 1 string.

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.

**Drill Plan**

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement	Class	Blend
Surface	Lead	680	1.72	1170	13.5	50%	0	C	5% NaCl + LCM
	Tail	250	1.38	347	14.8	50%	1054	C	5% NaCl + LCM
Intermediate 1	Lead	760	3.66	2796	10.3	35%	0	A/C	Bentonite + 1% CaCL <sub>2</sub> + 8% NaCl + LCM
	Tail	230	1.38	311	13.2	35%	7524	A/C	5% NaCl + LCM
Production	Lead	10	3.66	28	10.3	10%	8324	A/C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	750	1.35	1007	13.2	10%	8624	A/C	Fluid Loss + Dispersant + Retarder + LCM

**5. Mud Program**

An electronic Pason mud monitoring system complying with Onshore Order 2 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 - 1354	8.4 - 8.8	28-30	NC
Intermediate 1	9.875	Diesel Bine Emulsion	1354 - 8524	8.7 - 9.4	28-30	NC
Production	6.75	Cut Brine/OBM	8524 - 19474	8.6 - 9.4	28-30	NC

**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.

**7. Down Hole Conditions**

No abnormal pressure or temperature is expected. Maximum anticipated surface pressure is 2465 psi. Expected bottom hole temperature is 164 F.

In accordance with Onshore Order 6, Matador does not anticipate that there will be enough H<sub>2</sub>S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of a "H<sub>2</sub>S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have a H<sub>2</sub>S safety package on all wells, attached is a "H<sub>2</sub>S 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 the equipment being used.

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS  
  
Action 97291

COMMENTS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 97291
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
jagarcia	Approved, John Garcia, Petroleum Engineer	7/27/2022



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Phone:(575) 393-6161 Fax:(575) 393-0720  
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CONDITIONS

Created By	Condition	Condition Date
jagarcia	None	7/27/2022