

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**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.
NMNM138865

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

BOROS FEDERAL 23H

2. Name of Operator

Contact: NICKY FITZGERALD
MATADOR PRODUCTION COMPANYE-Mail: nicky.fitzgerald@matadorresources.com

9. API Well No.

30-015-46836-00-X1

3a. Address

ONE LINCOLN CENTER 5400 LBJ FREEWAY SUITE
DALLAS, TX 75240

3b. Phone No. (include area code)

1500 972-371-5448

10. Field and Pool or Exploratory Area
BIG SINKS

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

Sec 15 T26S R31E NWNE 400FNL 2294FEL
32.049038 N Lat, 103.764824 W Lon

11. County or Parish, State

EDDY COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" 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 checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

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 determined that the site is ready for final inspection.

BLM Bond No. NMB001079
Surety Bond No. RLB0015172

Please see the attached C102 to revise the SHL of Matador's Boros Federal 023H (30-015-46836) well from 400' FNL and 2294' FEL of Sec. 15 T26S R31E to 430' FNL and 2173' FEL of Sec. 15 T26S R31E. This proposed SHL move lies within the approved well pad location footprint covered in Environmental Assessment DOI-BLM-NM-P020-2020-0098-EA.

Also, Matador respectfully requests the option to amend the casing, cementing and mud program on the Boros Federal 023H (30-015-46836).

Please find supporting documentation attached and contact Blake Hermes at 972-371-5485 or

*Surface good same COA's
10-7-20 JR**APPROVED BY RACHEL IJABIKEN REVIEW ADDITIONAL ENGINEERING COA*

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #526482 verified by the BLM Well Information System
For MATADOR PRODUCTION COMPANY, sent to the Carlsbad
Committed to AFMSS for processing by JUANA MEDRANO on 08/20/2020 (20JM0099SE)

Name (Printed/Typed) NICKY FITZGERALD

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 08/20/2020

THIS 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)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ******KP 10/27/2020 GEO Review**

Additional data for EC transaction #526482 that would not fit on the form

32. Additional remarks, continued

BHermes@matadorresources.com for any questions.

Revisions to Operator-Submitted EC Data for Sundry Notice #526482

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM138865	NMNM138865
Agreement:		
Operator:	MATADOR PRODUCTION COMPANY 5400 LBJ FREEWAY, SUITE 1500 DALLAS, TX 75240 Ph: 972-371-5448	MATADOR PRODUCTION COMPANY ONE LINCOLN CENTER 5400 LBJ FREEWAY SUITE 1500 DALLAS, TX 75240 Ph: 972.371.5200
Admin Contact:	NICKY FITZGERALD REGULATORY ANALYST E-Mail: nicky.fitzgerald@matadorresources.com Ph: 972-371-5448	NICKY FITZGERALD REGULATORY ANALYST E-Mail: nicky.fitzgerald@matadorresources.com Ph: 972-371-5448
Tech Contact:	NICKY FITZGERALD REGULATORY ANALYST E-Mail: nicky.fitzgerald@matadorresources.com Ph: 972-371-5448	NICKY FITZGERALD REGULATORY ANALYST E-Mail: nicky.fitzgerald@matadorresources.com Ph: 972-371-5448
Location:		
State:	NM	NM
County:	EDDY	EDDY
Field/Pool:	BIG SINKS DELAWARE,SE	BIG SINKS
Well/Facility:	BOROS FEDERAL 023H Sec 15 T26S R31E 400FNL 2294FEL	BOROS FEDERAL 23H Sec 15 T26S R31E NWNE 400FNL 2294FEL 32.049038 N Lat, 103.764824 W Lon

Boros Federal 023H SUNDRY

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	11.34	1.79	0.79	1,381	5	1.43	3.45	75,265
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,308				Tail Cmt	does not	circ to sfc.	Totals:	1,381			75,265
Comparison of Proposed to Minimum Required Cement Volumes											
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
17 1/2	0.6946	950	1549	959	61	8.80	1903	2M			1.56
Class 'C' tail cmt yield above 1.35.											
Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK.											

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	4.46	1.55	2.49	7,091	3	4.54	2.81	210,603	
w/8.4#/g mud, 30min Sfc Csg Test psig:													
The cement volume(s) are intended to achieve a top of					4200	ft from surface or a		-2819	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			
9 7/8	0.2148	360	839	621	35	9.40	2086	3M		0.69			
Class 'C' tail cmt yld > 1.35													

Tail cmt		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	3.15	2.98	3.78	18,062	4	6.88	6.24	361,240	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,710						Totals:		18,062	361,240			
The cement volume(s) are intended to achieve a top of				7574	ft from surface or a		-483	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	740	999	876	14	9.40			0.44			
Class 'C' tail cmt yld > 1.35												
Excess Cement may be needed.												

PECOS DISTRICT

DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MATADOR PRODUCTION COMPANY
LEASE NO.:	NMNM138865
WELL NAME & NO.:	BOROS FEDERAL 023H
SURFACE HOLE FOOTAGE:	430'/N & 2173'/E
BOTTOM HOLE FOOTAGE:	100'/S & 1980'/E
LOCATION:	Section 15, T.26 S., R.31 E., NMPM
COUNTY:	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 checked="" type="radio"/> Medium	<input 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 checked="" type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input type="checkbox"/> Unit

ALL PREVIOUS COAs still apply.

A. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **1381 feet** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that

string.

2. The 7-5/8 Intermediate Casing shall be set at **7091 feet**. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

- ❖ Drill plan does not propose cement to surface ; In medium Karst Areas, **First two strings must be cemented to surface.**

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.

Option 2:

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

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 - c. Operator will perform bradenhead squeeze. Cement to surface. If cement does not circulate see B.1.a, c-d above.
 - d. **Operator has proposed to pump down 13-3/8" X 7-5/8" annulus.**
 - **Operator must run a CBL from TD of the 7-5/8" casing to surface. Submit results to BLM.**
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

Option 1 (Single Stage):

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
- **Excess Cement calculates to less than 25% ; More cement may be needed.**

RI09202020

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



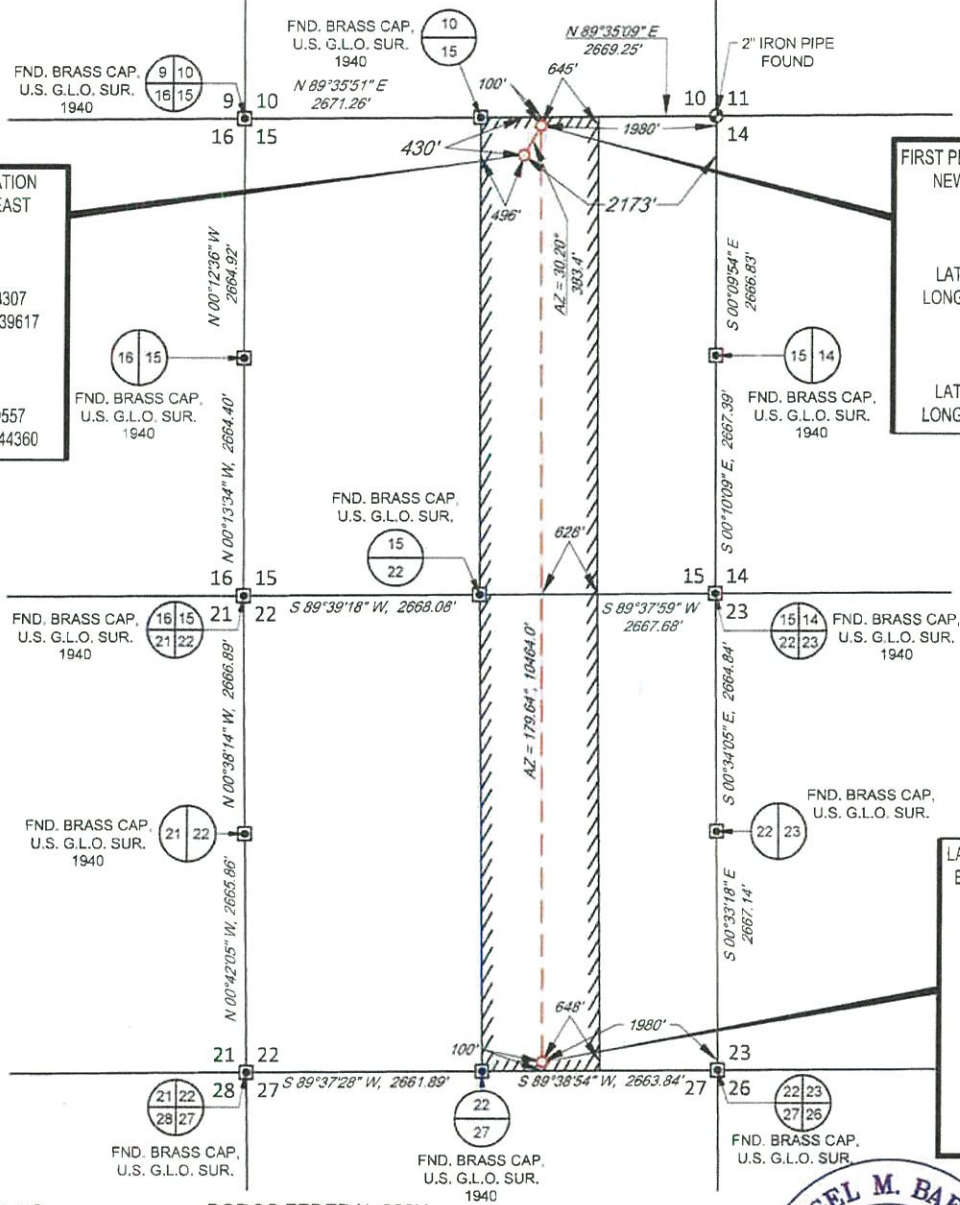
SECTION 15, TOWNSHIP 26-S, RANGE 31-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



**SURFACE LOCATION
NEW MEXICO EAST**
NAD 1927
X=676410
Y=381955
LAT.: N 32.0488307
LONG.: W 103.7639617
NAD 1983
X=717596
Y=382012
LAT.: N 32.0489557
LONG.: W 103.7644360

**FIRST PERFORATION POINT
NEW MEXICO EAST**
NAD 1927
X=676603
Y=382286
LAT.: N 32.0497388
LONG.: W 103.7633335
NAD 1983
X=717789
Y=382344
LAT.: N 32.0498638
LONG.: W 103.7638079

**LAST PERFORATION POINT/
BOTTOM HOLE LOCATION
NEW MEXICO EAST**
NAD 1927
X=676669
Y=371823
LAT.: N 32.0209743
LONG.: W 103.7632995
NAD 1983
X=717855
Y=371880
LAT.: N 32.0210995
LONG.: W 103.7637724



LEASE NAME & WELL NO.: BOROS FEDERAL 023H
SECTION 15 TWP 26-S RGE 31-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 430' FNL & 2173' FEL

DISTANCE & DIRECTION
FROM INT. OF NM128 & J-1/ORLA RD., GO SOUTH ON J-1/ORLA RD.
±10.5 MILES, THENCE WEST (RIGHT) ON PIPELINE RD ±5.2 MILES,
THENCE SOUTH (LEFT) ON PROPOSED RD. ±1.0 MILE, THENCE WEST
(RIGHT) ON PROPOSED RD. ±299 FEET, TO A POINT ±263 FEET
NORTHEAST OF THE LOCATION.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.
AS OF THE DATE OF SURVEY, ALL ABOVE GROUND APPURTENANCES WITHIN 300' OF THE STAKED LOCATION ARE SHOWN HEREON.



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



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1553 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

Boros Federal #023H
SHL: 430' FNL & 2173' FEL Section 15
BHL: 100' FSL & 1980' FEL Section 22
Township/Range: 26S 31E
Elevation Above Sea Level: 3223

Drilling Operation Plan

Proposed Drilling Depth: 18062' MD / 7774' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation Quaternary Deposits

KOP Lat/Long (NAD83): 32.0498638 N / -103.7638079 W
 TD Lat/Long (NAD83): 32.0210995 N / -103.7637724 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	1,356	1,356	132	Anhydrite	Barren
Salado (Top of Salt)	1,488	1,488	2,609	Salt	Barren
Lamar (Base of Salt)	4,097	4,097	29	Salt	Barren
Bell Canyon	4,126	4,126	1,053	Sandstone	Oil/Natural Gas
Cherry Canyon	5,179	5,179	1,206	Sandstone	Oil/Natural Gas
Brushy Canyon	6,385	6,385	806	Sandstone	Oil/Natural Gas
KOP	7,191	7,191	573	Sandstone	Oil/Natural Gas
Brushy Canyon	8,091	7,764	10	Sandstone	Oil/Natural Gas
TD	18,062	7,774		Sandstone	Oil/Natural Gas

2. Notable Zones

Brushy Canyon 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' 5,000-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

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 5,000 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 - 1381	0 - 1381	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 7091	0 - 7091	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	6.75	0 - 18062	0 - 7774	5.5	20	P-110	Hunting TLW	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 the option to deepen the Intermediate 1 casing set depth to 70° in curve, no changes in pipe grade or weight 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.

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement	Class	Blend
Surface	Lead	700	1.72	1198	12.5	50%	0	C	5% NaCl + LCM
	Tail	250	1.38	347	14.8	50%	1081	C	5% NaCl + LCM
Intermediate 1	Lead	150	3.66	548	10.3	35%	4200	A/C	Bentonite + 1% CaCL ₂ + 8% NaCl + LCM
	Tail	210	1.38	290	13.2	35%	6091	A/C	5% NaCl + LCM
Production	Tail	740	1.35	999	13.2	10%	7191	A/C	Fluid Loss + Dispersant + Retarder

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 - 1381	8.4 - 8.8	28-30	NC
Intermediate 1	9.875	Diesel Brine Emulsion	1381 - 7091	8.4 - 9.4	28-30	NC
Production	6.75	Cut Brine/OBM	7091 - 18062	8.6 - 9.4	50-65	<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.

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Bottom hole pressure is 3800 psi. Maximum anticipated surface pressure is 2090 psi. Expected bottom hole temperature is 145 F.

In accordance with Onshore Order 6, 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.

Casing Table Specification Sheet

Boros Federal #023H
 SHL: 430' FNL & 2173' FEL Section 15
 BHL: 100' FSL & 1980' FEL Section 22
 Township/Range: 26S 31E
 Elevation Above Sea Level: 3223

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 - 1381	0 - 1381	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 7091	0 - 7091	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	6.75	0 - 18062	0 - 7774	5.5	20	P-110	Hunting TLW	1.125	1.125	1.8