Form 3160-5
(June 2015)

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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.

SUBMIT IN TRIPLICATE - Other instructions on page 2

5. Lease Serial No.
NMNM138865

6. If Indian, Allottee or Tribe Name

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

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

8. Well Name and No.
BOROS FED COM 201H

2. Name of Operator
MATADOR PRODUCTION COMPANY
Contact: NICKY FITZGERALD
E-Mail: nicky.fitzgerald@matadorresources.com

9. API Well No.
30-015-46735-00-X1

3a. Address
ONE LINCOLN CENTER 5400 LBJ FREEWAY SUITE 1500
DALLAS, TX 75240

3b. Phone No. (include area code)
Ph: 972-371-5448

10. Field and Pool or Exploratory Area
PURPLE SAGE-WOLFCAMP (GAS)

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 15 T26S R31E NWNW 430FNL 484FWL
32.048943 N Lat, 103.773094 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			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change to Original APD
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be 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.

BLM Bond No. NMB001079
Surety Bond No. RLB0015172

Matador Resources respectfully requests the OPTION to amend the casing, cementing and mud program on the Boros Federal Com #201H (30-015-46735).

Please find supporting documentation attached and contact JD Harkrider at 972-629-2177 for any questions.

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

Electronic Submission #506716 verified by the BLM Well Information System
For MATADOR PRODUCTION COMPANY, sent to the Carlsbad
Committed to AFMSS for processing by DEBORAH HAM on 03/11/2020 (20DMH0117SE)

Name *(Printed/Typed)* JD HARKRIDER — Title DRILLING ENGINEER

Signature (Electronic Submission) — Date 03/11/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By NDUNGU KAMAU — Title PETROLEUM ENGINEER — Date 03/12/2020

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 Carlsbad

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 ****

Accepted
RWP 3-25-20

Revisions to Operator-Submitted EC Data for Sundry Notice #506716

	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:	JD HARKRIDER DRILLING ENGINEER E-Mail: jharkrider@matadorresources.com Ph: 972-629-2177	JD HARKRIDER DRILLING ENGINEER E-Mail: jharkrider@matadorresources.com Ph: 972-629-2177
Location: State: County:	 NM EDDY	 NM EDDY
Field/Pool:	PURPLE SAGE;WOLFCAMP(GAS)	PURPLE SAGE-WOLFCAMP (GAS)
Well/Facility:	BOROS FEDERAL COM 201H Sec 15 T26S R31E 430FNL 484FWL 32.048942 N Lat, 103.773093 W Lon	BOROS FED COM 201H Sec 15 T26S R31E NWNW 430FNL 484FWL 32.048943 N Lat, 103.773094 W Lon

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Matador Production Company
LEASE NO.:	NMNM138865
WELL NAME & NO.:	201H – BOROS FED COM
SURFACE HOLE FOOTAGE:	400'/N & 484'/W
BOTTOM HOLE FOOTAGE	240'/S & 331'/W
LOCATION:	SECTION 15, T26S, R31E, NMPM
COUNTY:	EDDY

COA

H2S	○ Yes	◉ No	
Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	◉ Low	○ Medium	○ High
Cave/Karst Potential	○ Critical		
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	○ Conventional	○ Multibowl	◉ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☐ COM	☐ 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 **25 feet (Lea 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 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.

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.

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

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

B. PRESSURE CONTROL

a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

1. 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 - 1355	0 - 1355	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1 Top	9.875	0 - 9500	0 - 9467	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Intermediate 1 Bottom	9.875 or 8.75	9500 - 10900	9467 - 10867	7.625	29.7	P-110	BUTT or VAM HTFNR	1.125	1.125	1.8
Production	6.75	0 - 21668	0 - 11492	5.5	20	P-110	Hunting TLWSC	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
- 9-7/8" hole depth may fluctuate, but 7-5/8" BUTT will only be run inside of 9-7/8" OH and Flush joint will be run in 8-3/4" OH. Cement volumes will be adjusted proportionally. Option to drill the entire Intermediate I hole section in 9-7/8" hole size.
- A variance is requested to wave the centralizer requirement for the 7-5/8" flush casing in the 8-3/4" hole and 5-1/2" SF/Flush casing in the 6-3/4" hole

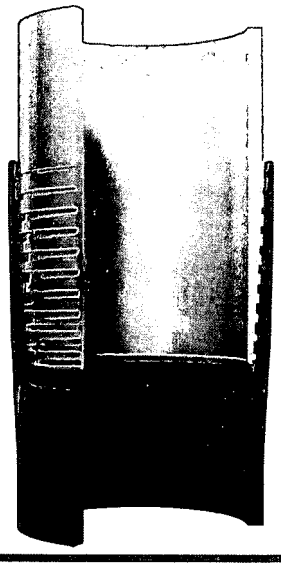
String	Type	Sacks	Yield	Weight	Percent Excess	Top of Cement (ft)	Class	Blend
Surface	Lead	495	2.21	12.4	50%	0	C	Class C Cement + 1% Calcium Chloride + LCM
	Tail	266	1.32	14.8	50%	1055	C	Class C Cement + LCM
Intermediate 1 DV ~4,150'	Lead	274	5.57	10.2	30%	0	A/C	Stage 2: Tuned Light Blend
	Lead	278	5.57	10.2	30%	4150	A/C	Stage 1: Tuned Light Blend
	Tail	114	1.367	13.5	30%	9900	A/C	Stage 1: Class A/C + LCM
Intermediate 1 Alternate Design	Lead	552	5.57	10.2	30%	0	A/C	Tuned Light Blend
	Tail	114	1.367	13.5	30%	9900	A/C	Class A/C + LCM
	Tail	1000	1.468	14.2	30%	0	C	Bradenhead Contingency: Class C Cement + LCM
Production	Tail	744	1.37	13.5	10%	200' Tie-Back	H	Fluid Loss + Dispersant + Retarder + LCM

- 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.

2. 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	Mud Type	Depth From	Depth To	Density (lb/gal)	Viscosity	Fluid Loss
Surface	Spud Mud	0	Surf Shoe	8.4 - 8.8	28-30	NC
Intermediate 1	Brine Diesel Emulsion	Surf Casing Shoe	7-5/8" Shoe	8.4 - 9.4	28-30	NC
Production	OBM	7-5/8' Shoe	Lateral TD	11.0 - 12.5	30-35	<20



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^2
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

HUNTING

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