Rec'd 9/3/2020 - NMOCD

Form 3160-5
(June 2015)

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.
NMNM138876

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.
RODNEY ROBINSON FED COM 203H

2. Name of Operator
MATADOR PRODUCTION COMPANY

Contact: NICKY FITZGERALD
E-Mail: nicky.fitzgerald@matadorresources.com

9. API Well No.
30-025-47351-00-X1

3a. Address
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
UPPER WOLFCAMP

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 7 T23S R33E SWSE 385FSL 1706FEL
32.313084 N Lat, 103.608444 W Lon

11. County or Parish, State
LEA 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 respectfully requests the option to amend the casing, cementing and mud program on the RODNEY ROBINSON FEDERAL COM 203H API 30-025-47351. Add option for pilot hole and updated casing design to 9-7/8 hole by 7-5/8 inch casing.

Proposed Drilling Depth: 22572' MD / 12322' TVD with Pilot Hole TD to 14,250' MD/TVD Type of well: Horizontal well, Pilot hole

Pilot Hole Plug Program
- All plugs will be tagged to confirm top of plug

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

Electronic Submission #523870 verified by the BLM Well Information System
For MATADOR PRODUCTION COMPANY, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 08/03/2020 (20PP3230SE)

Name *(Printed/Typed)* NICKY FITZGERALD — Title REGULATORY ANALYST

Signature (Electronic Submission) — Date 07/30/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By NDUNGU KAMAU — Title PETROLEUM ENGINEER — Date 09/03/2020

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 Hobbs

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 ****

Additional data for EC transaction #523870 that would not fit on the form

32. Additional remarks, continued

- Kick-off plug set 200' below Wolfcamp top to isolate Wolfcamp top

Also, Matador requests a BHL change from 60 ft. FNL and 2015 ft. FEL of Sec.06-23S-33E to 60 ft. FNL and 1690 ft. FEL of Sec.06-23S-33E, please see attached C-102.

Revisions to Operator-Submitted EC Data for Sundry Notice #523870

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM138876	NMNM138876
Agreement:		
Operator:	MATADOR PRODUCTION COMPANY 5400 LBJ FREEWAY, SUITE 1500 DALLAS, TX 75240 Ph: 972-371-5448	MATADOR PRODUCTION COMPANY 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: County:	 NM LEA	 NM LEA
Field/Pool:	WC-025G-09 S223332A;UPWC	UPPER WOLFCAMP
Well/Facility:	RODNEY ROBINSON FEDERAL COM 203H Sec 7 T23S R33E 385FSL 1706FEL	RODNEY ROBINSON FED COM 203H Sec 7 T23S R33E SWSE 385FSL 1706FEL 32.313084 N Lat, 103.608444 W Lon

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Matador Production Company
LEASE NO.:	NMNM138876
WELL NAME & NO.:	RODNEY ROBINSON FEDERAL/ 203H
SURFACE HOLE FOOTAGE:	385'/S & 1706'/E
BOTTOM HOLE FOOTAGE	60'/N & 2015'/E
LOCATION:	Section 7, T.23 S., R.33 E., NMPM
COUNTY:	Lea County, New Mexico

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

Casing Design:

1. The **13-3/8** inch surface casing shall be set at approximately **1385** 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. **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.

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.

The pilot hole plugging procedure is approved as written. Note plug tops on subsequent drilling report. The BLM is to be contacted (575-393-3612 Lea County) when tagging the plugs.

Or,

Pilot hole is required to have a plug at the bottom of the hole. If two plugs are set, the BLM is to be contacted (575-393-3612 Lea County) prior to tag of bottom plug, which must be a minimum of 200' in length. Operator can set one plug from bottom of pilot hole to kick-off point and save the WOC time for tagging the first plug. Note plug tops on subsequent drilling report.

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.

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

NMK8272020

Rodney Robinson Fed Com 203H
SHL: 385' FSL & 1706' FEL Section 7
BHL: 60' FNL & 1690' FEL Section 6
Township/Range: 23S 33E
Elevation Above Sea Level: 3717

Drilling Operation Plan

Proposed Drilling Depth: 22572' MD / 12322' TVD with Pilot Hole TD to 14,250' MD/TVD

Type of well: Horizontal well, Pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation Quaternary Deposits

KOP Lat/Long (NAD83): 32.3121641467 N / -103.6098272117 W
TD Lat/Long (NAD83): 32.3408951225 N / -103.6095519696 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	1,262	1,262	513	Anhydrite	Barren
Salado (Top of Salt)	1,775	1,775	1,650	Salt	Barren
Castile	3,425	3,425	1,573	Salt	Barren
Lamar (Base of Salt)	4,998	4,998	38	Dolomite	Barren
Bell Canyon	5,036	5,036	846	Sandstone	Oil/Natural Gas
Cherry Canyon	5,882	5,882	1,336	Sandstone	Oil/Natural Gas
Brushy Canyon	7,218	7,218	1,581	Sandstone	Oil/Natural Gas
Bone Spring Lime	8,799	8,799	1,154	Limestone	Oil/Natural Gas
1st Bone Spring Sand	9,953	9,953	272	Sandstone	Oil/Natural Gas
2nd Bone Spring Carbonate	10,225	10,225	427	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	10,652	10,652	594	Sandstone	Oil/Natural Gas
3rd Bone Spring Carbonate	11,246	11,246	532	Carbonate	Oil/Natural Gas
3rd Bone Spring Sand	11,778	11,778	415	Sandstone	Oil/Natural Gas
KOP	**11,784**	**11,749**	**2,173**	**Shale**	**Oil/Natural Gas**
Wolfcamp	12,291	12,193	1,729	Shale	Oil/Natural Gas
Canyon	-	13,922	160	Carbonate	Oil/Natural Gas
Strawn	-	14,082	163	Carbonate	Oil/Natural Gas
Atoka	-	14,245	-	Carbonate	Oil/Natural Gas
TD	**22,572**	**12,322**		**Shale**	**Oil/Natural Gas**

2. Notable Zones

Wolfcamp 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 78'

3. Pressure Control

Equipment

A 18,000' 10,000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and one annular preventer will be utilized below 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 10M BOPE system will be installed. Test pressures will be 250 psi low and 10,000 psi high with the annular preventer being tested to 250 psi low and 5000 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 10M BOPE system is re-installed.

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

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

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

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

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 - ~~1287~~ 1385	0 - ~~1287~~ 1385	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1 Top	9.875	0 - 9500	0 - 9500	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Intermediate 1 Bottom	8.75	9500 - 11634	9500 - 11599	7.625	29.7	P-110	VAM HTF-NR	1.125	1.125	1.8
Production	6.75	0 - 22572	0 - 12322	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.

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.

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	640	1.72	1101	12.5	50%	0	C	5% NaCl + LCM
	Tail	250	1.38	347	14.8	50%	987	C	5% NaCl + LCM
Intermediate 1 DV ~5,100'	Tail	490	3.68	1815	10.3	35%	0	A/C	Stage 2: Tuned light blend
	Lead	440	3.68	1605	10.3	35%	5100	A/C	Stage 1:Fluid Loss + Dispersant + Retarder + LCM
	Tail	~~110~~ 1100	1.46	156	13.2	35%	10634	A/C	Stage 1: Fluid Loss + Dispersant + Retarder
Intermediate 1 Alternate Design- Bradenhead Squeeze	Lead	840	3.68	3083	10.3	35%	0	A/C	Tuned light blend
	Tail	110	1.43	156	13.2	35%	10634	A/C	Stage 1: Fluid Loss + Dispersant + Retarder
	Tail	1000	1.46	1460	14.2	35%	0	C	Bradenhead Contingency: Class C Cement + LCM
Production	Tail	720	1.43	1035	13.2	10%	11434	H	Fluid Loss + Dispersant + Retarder

Pilot Hole Plug Program

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Plug Depth (ft)	Class	Blend
Bottom Plug	Tail	125	0.99	124	16.5	10%	14,250' - 13,750'	H	Fluid Loss + Dispersant + Retarder
Kick-Off Plug	Tail	199	0.99	197	16.5	10%	12,293' - 11,600'	H	Fluid Loss + Dispersant + Retarder

- All plugs will be tagged to confirm top of plug
- Kick-off plug set 200' below Wolfcamp top to isolate Wolfcamp top

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 - 1287	8.4 - 8.8	28-30	NC
Intermediate 1	9.875	Diesel Brine Emulsion	1287 - 11634	8.4 - 9.4	28-30	NC
Production	6.75	OBM	11634 - 22572	11.5 - 12.5	50-65	<20

6. Cores, Test, & Logs

No core or drill stem test is planned.

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.

Pilot Hole Program: Triple combo with CMR along with a Sonic/FMI run

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Maximum anticipated surface pressure is 5298 psi. Expected bottom hole temperature is 176 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.