Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Carlsbad Field Office
OCD Artesia

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.
NMNM111533

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.
GARRETT FED COM 222H

2. Name of Operator
MATADOR PRODUCTION COMPANY

Contact: TAMMY R LINK
E-Mail: tlink@matadorresources.com

9. API Well No.
30015451622

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

3b. Phone No. (include area code)
Ph: 575-627-2465

10. Field and Pool or Exploratory Area
PURPLE SAGE; WOLFCAMP

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 32 T24S R29E Mer NMP SWNW 2282FNL 585FWL

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.

RECEIVED

BLM BOND NO:NMB001079
Surety Bond:RLB0015172

OCT 12 2018

Please see attached table for change in 2nd intermediate casing for Intermediate 2 Bottom from 7" 29# P-110 BTC to 7-5/8" 29.7# P110 VAM HTF-NR. Change in Production hole size from 6-1/8" to 6-3/4". Change in Production casing for Production Bottom from 4-1/2" 13.5# P110 BTC/TXP to 5-1/2" 20# P-110 Eagle SFH. Spec sheet attached for 5-1/2" 20# Eagle SFH.

DISTRICT II-ARTESIA O.C.D.

SEE ATTACHED FOR CONDITIONS OF APPROVAL

*A variance is requested to wave the centralizer requirement for the 7-5/8" flush casing in the last 800' of 8-3/4" hole and the 5-1/2" SF/Flush casing in the 6-3/4" hole.

Please e-mail all questions to James Long, jlong@matadorresources.com

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

Electronic Submission #436975 verified by the BLM Well Information System
For MATADOR PRODUCTION COMPANY, sent to the Carlsbad
Committed to AFMSS for processing by MUSTAFA HAQUE on 09/26/2018 ()

Name *(Printed/Typed)* TAMMY R LINK — Title PRODUCTION ANALYST

Signature (Electronic Submission) — Date 09/25/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By mustafa Haque — Title Petroleum Engineer — Date 09/26/20

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 Field 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)

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

RW 10-23-18

Name	Type	Sacks	Yield	Weight
Surface	Lead	268	1.82	12.8
	Tail	352	1.38	14.8
TOC = 0'		100% Excess		
Intermediate	Lead	638	2.13	12.6
	Tail	202	1.38	14.8
TOC = 0'		100% Excess		
Intermediate 2	Lead	700	2.13	12.6
	Tail	225	1.38	14.8
TOC = 2600'		60% Excess		
Production	Tail	530	1.17	15.8
TOC = 9800'		25% Excess		

Blend
Class C + Bentonite + 2% CaCL2 + 3% NaCl + LCM
Class C + 5% NaCl + LCM
Centralizers per Onshore Order 2.III.B.1f
Class C + Bentonite + 1% CaCL2 + 8% NaCl + LCM
Class C + 5% NaCl + LCM
2 on btm jt, 1 on 2nd jt, 1 every 4th jt to surface
TXI + Fluid Loss + Dispersant + Retarder + LCM
TXI + Fluid Loss + Dispersant + Retarder + LCM
2 on btm jt, 1 on 2nd jt, 1 every 4th jt to top of tail cement (500' above TOC)
Class H + Fluid Loss + Dispersant + Retarder + LCM
2 on btm jt, 1 on 2nd jt, 1 every other jt to top of curve

Name	Hole Size	Mud Weight	Visc	Fluid Loss	Type Mud
Surface	17-1/2"	8.30	28	NC	FW Spud Mud
Intermediate	12-1/4"	10.00	30-32	NC	Brine Water
Intermediate 2	8-3/4"	9.00	30-31	NC	FW/Cut Brine
Production	6-3/4"	12.50	50-60	<10	OBM

Name	Hole Size	Casing Size	Wt/Grade	Thread Collar	Setting Depth
Surface	17-1/2"	13-3/8" (new)	54.5# J-55	BTC	610
Intermediate	12-1/4"	9-5/8" (new)	40# J-55	BTC	2900
Intermediate 2 Top	8-3/4"	7-5/8" (new)	29.7# P-110	BTC	2600
Intermediate 2 Bottom	8-3/4"	7-5/8" (new)	29.7# P-110	VAM HTF-NR	11058
Production Top	6-3/4"	5-1/2" (new)	20# P-110	BTC/TXP	10800
Production Bottom	6-3/4"	5-1/2" (new)	20# P-110	Eagle SFH	15730

Top Cement
Surface
Surface
2600
2600
9800
9800

U. S. Steel Tubular Products

5.500" 20.00lbs/ft (0.361" Wall) P110 HP USS-EAGLE SFH™

MECHANICAL PROPERTIES	Pipe	USS-EAGLE SFH™	
Minimum Yield Strength	125,000	--	psi
Maximum Yield Strength	140,000	--	psi
Minimum Tensile Strength	130,000	--	psi
DIMENSIONS	**Pipe**	**USS-EAGLE SFH™**	
Outside Diameter	5.500	5.630	in.
Wall Thickness	0.361	--	in.
Inside Diameter	4.778	4.693	in.
Standard Drift	4.653	4.653	in.
Alternate Drift	--	4.653	in.
Nominal Linear Weight, T&C	20.00	--	lbs/ft
Plain End Weight	19.83	--	lbs/ft
SECTION AREA	**Pipe**	**USS-EAGLE SFH™**	
Critical Area	5.828	5.027	sq. in.
Joint Efficiency	--	86.3	%
PERFORMANCE	**Pipe**	**USS-EAGLE SFH™**	
Minimum Collapse Pressure	13,150	13,150	psi
External Pressure Leak Resistance	--	13,150	psi
Minimum Internal Yield Pressure	14,360	14,360	psi
Minimum Pipe Body Yield Strength	729,000	--	lbs
Joint Strength	--	628,000	lbs
Compression Rating	--	628,000	lbs
Reference Length	--	20,933	ft
Maximum Uniaxial Bend Rating	--	89.7	deg/100 ft
MAKE-UP DATA	**Pipe**	**USS-EAGLE SFH™**	
Make-Up Loss	--	5.92	in.
Minimum Make-Up Torque	--	14,200	ft-lbs
Maximum Make-Up Torque	--	16,800	ft-lbs
Maximum Operating Torque	--	25 700	ft-lbs

U. S. Steel Tubular Products
460 Wildwood Forest Drive Suite 300S
Spring, Texas 77380

1-877-893-9461
connections@uss.com
www.usstubular.com

For the latest performance data, always visit our website: www.tenaris.com

February 02 2017

Tenaris

Connection: TenarisXP® BTC
Casing/Tubing: CAS
Coupling Option: REGULAR

Size: 5.500 in.
Wall: 0.361 in.
Weight: 20.00 lbs/ft
Grade: P110-IC
Min. Wall Thickness: 87.5 %

PIPE BODY DATA

GEOMETRY

Nominal OD	**5.500** in.	Nominal Weight	**20.00** lbs/ft	Standard Drift Diameter	**4.653** in.
Nominal ID	**4.778** in.	Wall Thickness	**0.361** in.	Special Drift Diameter	**N/A**
Plain End Weight	**19.83** lbs/ft				

PERFORMANCE

Body Yield Strength	**641** x 1000 lbs	Internal Yield	**12630** psi	SMYS	**110000** psi
Collapse	**12100** psi				

TENARISXP® BTC CONNECTION DATA

GEOMETRY

Connection OD	**6.100** in.	Coupling Length	**9.450** in.	Connection ID	**4.766** in.
Critical Section Area	**5.828** sq. in.	Threads per in.	**5.00**	Make-Up Loss	**4.204** in.

PERFORMANCE

Tension Efficiency	**100** %	Joint Yield Strength	**641** x 1000 lbs	Internal Pressure Capacity(1)	**12630** psi
Structural Compression Efficiency	**100** %	Structural Compression Strength	**641** x 1000 lbs	Structural Bending(2)	**92** °/100 ft
External Pressure Capacity	**12100** psi				

ESTIMATED MAKE-UP TORQUES(3)

Minimum	**11270** ft-lbs	Optimum	**12520** ft-lbs	Maximum	**13770** ft-lbs

OPERATIONAL LIMIT TORQUES

Operating Torque	**21500** ft-lbs	Yield Torque	**23900** ft-lbs		

BLANKING DIMENSIONS

Blanking Dimensions

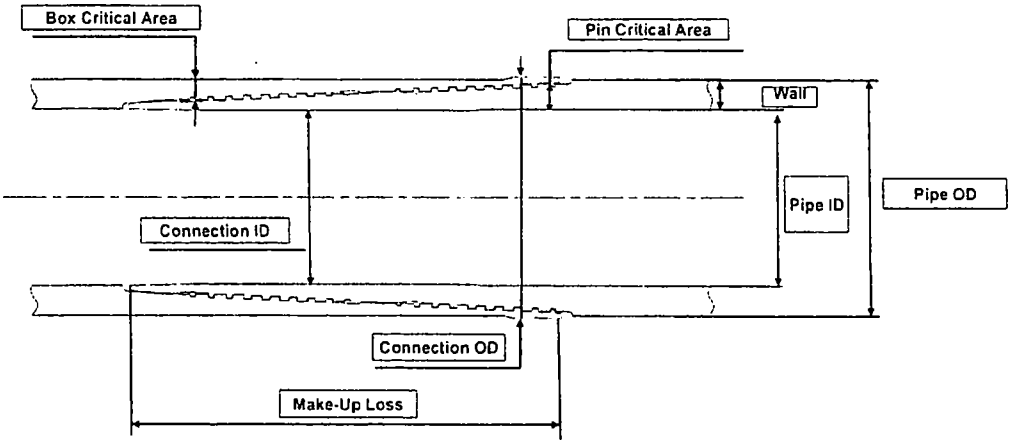
(1) Internal Pressure Capacity related to structural resistance only. Internal pressure leak resistance as per

CONNECTION DATA SHEET (Imperial Units)

ISO 9001

Connection: VAM® HTF-NR 7,625" 29,70# P110EC
Alternate Drift: 6,750"

Drawing: PD-101836P PD-101836B Isolated connection



OD	WEIGHT	WALL	GRADE	API DRIFT
7,625"	29,70 lb/ft	0,375"	P110EC	6,750"

PIPE BODY PROPERTIES:

Outside Diameter	*inch*	7,625
Internal Diameter	*inch*	6.875
Nominal Area	*sqin.*	8,541
Yield Strength	*klb*	1 068
Ultimate Strength	*klb*	1 153
MIYP	*psi*	10 760
Collapse Pressure	*psi*	5 670

CONNECTION PROPERTIES:

Connection OD (nom)	*inch*	7,701
Connection ID	*inch*	6,782
Coupling Length	*inch*	N/A
Make-up Loss	*inch*	4.657
Box critical area	*%PBYS*	58%
Pin critical area	*%PBYS*	67%
Yield Strength	*klb*	619
Ultimate strength	*klb*	669
Structural compression	*klb*	776
Compression with sealability	*klb*	371
MIYP	*psi*	10 760
Ext Pressure Resistance	*psi*	5 670
Regular Make-up Torque	*ft.lb*	
	Min	9 600
	Opt	11 300
	Max	13 000
Maximum Torque with Sealability	*ft.lb*	58 500
Maximum Torsional Value	*ft.lb*	73 000

No one knows VAM like VAM

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canada@vamfieldservice.com
mexico@vamfieldservice.com

80 VAM Specialists available Worldwide 24/7 for Rig Site Assistance

vallourec

Designed by :
X. MENCAGLIA

Reference: VRCC16-1177
Revision : 0
Date : July 19, 2016

PECOS DISTRICT
DRILLING OPERATIONS
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Matador Prod Co
LEASE NO.:	NMNM54289
WELL NAME & NO.:	Garrett Fed Com 222H
SURFACE HOLE FOOTAGE:	2282'/N & 585'/W
BOTTOM HOLE FOOTAGE	2323'/N & 240'/E
LOCATION:	Sec. 32, T. 24 S, R. 29 E
COUNTY:	Eddy County

Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	○ Low	◉ Medium	○ High
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	○ Conventional	◉ Multibowl	
Other	☐4 String Area	☐Capitan Reef	☐WIPP

All previous COAs still apply except for the following:

Second intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

1. The minimum required fill of cement behind the **7 5/8 inch** 2nd intermediate casing is:

   ☒ Cement as proposed. Operator shall provide method of verification.

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

   ☒ Cement as proposed. Operator shall provide method of verification.

MHH 09262018

GENERAL REQUIREMENTS

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.