

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.*

5. Lease Serial No.  
NMNM136226

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**

**Arishad Field Office**  
**OCIS Hobbs**  
**MAY 23 2018**  
**RECEIVED**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator: MATADOR PRODUCTION COMPANY  
Contact: TAMMY R LINK  
E-Mail: tlink@matadorresources.com

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

3b. Phone No. (include area code): 575-623-6601 Ext: 2465

8. Well Name and No.: BIGGERS FEDERAL 201H

9. API Well No.: 30-025-44481-00-X1

10. Field and Pool or Exploratory Area: DOGIE DRAW-DELAWARE

4. Location of Well (Footage, Sec., T., R., M., or Survey Description):  
Sec 18 T25S R35E 353FSL 523FWL  
32.124153 N Lat, 103.413445 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
<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 checked="" 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 type="checkbox"/> Other
	<input type="checkbox"/> Change Plans <input type="checkbox"/> Plug and Abandon <input type="checkbox"/> Temporarily Abandon
	<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 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 NMB0001079  
SURETY BOND NO. RLB0015172

Matador requests a variance to run 7-5/8" BTC casing inside 9-5/8" BTC casing which will be less than the 0.422" stand off regulation. Matador has met with Christopher Walls and Mustafa Haque as well as other BLM representatives and determined that this would be acceptable as long as the 7-5/8" flush casing was run throughout the entire 300+' cement tie back section between 9-5/8" and 7-5/8" casing.

See Attached documents.

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

14. I hereby certify that the foregoing is true and correct.  
Electronic Submission #406359 verified by the BLM Well Information System  
For MATADOR PRODUCTION COMPANY, sent to the Hobbs  
Committed to AFMSS for processing by PRISCILLA PEREZ on 03/28/2018 (18PP0791SE)

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

Signature (Electronic Submission) Date 03/01/2018

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By MUSTAFA HAQUE Title PETROLEUM ENGINEER Date 05/17/2018

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 \*\***

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Name	Hole Size	Casing Size	Wt/Grade	Thread Collar	Setting Depth	Top Cement
Surface	17-1/2"	13-3/8" (new)	54.5# J-55	BTC	1010	Surface
Intermediate	12-1/4"	9-5/8" (new)	40# J-55	BTC	5600	Surface
Intermediate 2 Top	8-3/4"	7-5/8" (new)	29.7# P-110	BTC	5300	4600
Intermediate 2 Middle	8-3/4"	7-5/8" (new)	29.7# P-110	VAM HTF-NR	11850	4600
Intermediate 2 Bottom	8-3/4"	7" (new)	29# P-110	BTC	12756	4600
Production Top	6-1/8"	5-1/2" (new)	20# P-110	BTC/TXP	11750	12300
Production Bottom	6-1/8"	4-1/2" (new)	13.5# P-110	BTC/TXP	17248	12300

Name	Type	Sacks	Yield	Weight	Blend
Surface	Lead	700	1.82	12.8	Class C + Bentonite + 2% CaCL <sub>2</sub> + 3% NaCl + LCM
	Tail	400	1.38	14.8	Class C + 5% NaCl + LCM
TOC = 0'		100% Excess			Centralizers per Onshore Order 2.III.B.1f
Intermediate	Lead	1250	1.82	12.8	Class C + Bentonite + 2% CaCL <sub>2</sub> + 3% NaCl + LCM
	Tail	540	1.38	14.8	Class C + 5% NaCl + LCM
TOC = 0'		100% Excess			2 on btm jt, 1 on 2nd jt, 1 every 4th jt to surface
Intermediate 2	Lead	550	2.36	11.5	TXI + Fluid Loss + Dispersant + Retarder + LCM
	Tail	300	1.38	14.8	TXI + Fluid Loss + Dispersant + Retarder + LCM
TOC = 4600'		60% Excess			2 on btm jt, 1 on 2nd jt, 1 every 4th jt to top of tail cement (500' above TOC)
Production	Tail	510	1.17	15.8	Class H + Fluid Loss + Dispersant + Retarder + LCM
TOC = 12,100'		25% Excess			2 on btm jt, 1 on 2nd jt, 1 every other jt to top of curve

For the latest performance data, always visit our website: [www.tenaris.com](http://www.tenaris.com)

February 02 2017



**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	<b>5.500 in.</b>	Nominal Weight	<b>20.00 lbs/ft</b>
Nominal ID	<b>4.778 in.</b>	Wall Thickness	<b>0.361 in.</b>
Plain End Weight	<b>19.83 lbs/ft</b>	Standard Drift Diameter	<b>4.653 in.</b>
		Special Drift Diameter	<b>N/A</b>
PERFORMANCE			
Body Yield Strength	<b>641 x 1000 lbs</b>	Internal Yield	<b>12630 psi</b>
Collapse	<b>12100 psi</b>	SMYS	<b>110000 psi</b>
TENARISXP® BTC CONNECTION DATA			
GEOMETRY			
Connection OD	<b>6.100 in.</b>	Coupling Length	<b>9.450 in.</b>
Critical Section Area	<b>5.828 sq. in.</b>	Threads per in.	<b>5.00</b>
		Connection ID	<b>4.766 in.</b>
		Make-Up Loss	<b>4.204 in.</b>
PERFORMANCE			
Tension Efficiency	<b>100 %</b>	Joint Yield Strength	<b>641 x 1000 lbs</b>
Structural Compression Efficiency	<b>100 %</b>	Structural Compression Strength	<b>641 x 1000 lbs</b>
External Pressure Capacity	<b>12100 psi</b>	Internal Pressure Capacity <sup>(1)</sup>	<b>12630 psi</b>
		Structural Bending <sup>(2)</sup>	<b>92 °/100 ft</b>
ESTIMATED MAKE-UP TORQUES			
Minimum	<b>11270 ft-lbs</b>	Optimum	<b>12520 ft-lbs</b>
		Maximum	<b>13770 ft-lbs</b>
OPERATIONAL LIMIT TORQUES			
Operating Torque	<b>21500 ft-lbs</b>	Yield Torque	<b>23900 ft-lbs</b>
BLANKING DIMENSIONS			
<a href="#">Blanking Dimensions</a>			

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

section 10.3 API 5C3 / ISO 10400 - 2007.

**(2)** Structural rating, pure bending to yield (i.e no other loads applied)

**(3)** Torque values calculated for API Modified thread compounds with Friction Factor=1. For other thread compounds please contact us at [licensees@oilfield.tenaris.com](mailto:licensees@oilfield.tenaris.com). Torque values may be further reviewed.

For additional information, please contact us at [contact-tenarishydril@tenaris.com](mailto:contact-tenarishydril@tenaris.com)

For the latest performance data, always visit our website: [www.tenaris.com](http://www.tenaris.com)

February 02 2017



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

**Size:** 4.500 in.  
**Wall:** 0.290 in.  
**Weight:** 13.50 lbs/ft  
**Grade:** P110-ICY  
**Min. Wall Thickness:** 87.5 %

PIPE BODY DATA			
GEOMETRY			
Nominal OD	<b>4.500 in.</b>	Nominal Weight	<b>13.50 lbs/ft</b>
Nominal ID	<b>3.920 in.</b>	Wall Thickness	<b>0.290 in.</b>
Plain End Weight	<b>13.05 lbs/ft</b>	Standard Drift Diameter	<b>3.795 in.</b>
		Special Drift Diameter	<b>N/A</b>
PERFORMANCE			
Body Yield Strength	<b>479 x 1000 lbs</b>	Internal Yield	<b>14100 psi</b>
Collapse	<b>11620 psi</b>	SMYS	<b>125000 psi</b>
TENARISXP® BTC CONNECTION DATA			
GEOMETRY			
Connection OD	<b>5.000 in.</b>	Coupling Length	<b>9.075 in.</b>
Critical Section Area	<b>3.836 sq. in.</b>	Threads per in.	<b>5.00</b>
		Connection ID	<b>3.908 in.</b>
		Make-Up Loss	<b>4.016 in.</b>
PERFORMANCE			
Tension Efficiency	<b>100 %</b>	Joint Yield Strength	<b>479 x 1000 lbs</b>
Structural Compression Efficiency	<b>100 %</b>	Structural Compression Strength	<b>479 x 1000 lbs</b>
External Pressure Capacity	<b>11620 psi</b>	Internal Pressure Capacity <sup>(1)</sup>	<b>14100 psi</b>
		Structural Bending <sup>(2)</sup>	<b>127 °/100 ft</b>
ESTIMATED MAKE UP TORQUES <sup>3</sup>			
Minimum	<b>6950 ft-lbs</b>	Optimum	<b>7720 ft-lbs</b>
		Maximum	<b>8490 ft-lbs</b>
OPERATIONAL LIMIT TORQUES			
Operating Torque	<b>10500 ft-lbs</b>	Yield Torque	<b>12200 ft-lbs</b>
BLANKING DIMENSIONS			
Blanking Dimensions			

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

section 10.3 API 5C3 / ISO 10400 - 2007.

**(2)** Structural rating, pure bending to yield (i.e no other loads applied)

**(3)** Torque values calculated for API Modified thread compounds with Friction Factor=1. For other thread compounds please contact us at [licensees@oilfield.tenaris.com](mailto:licensees@oilfield.tenaris.com). Torque values may be further reviewed.

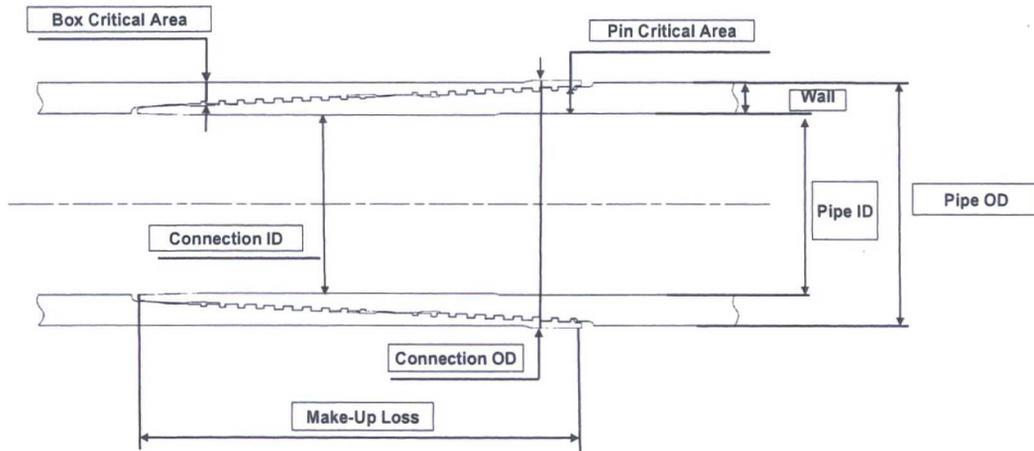
For additional information, please contact us at [contact-tenarishydril@tenaris.com](mailto:contact-tenarishydril@tenaris.com)

# CONNECTION DATA SHEET ( Imperial Units)



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:			CONNECTION PROPERTIES:		
Outside Diameter	<i>inch</i>	7,625	Connection OD (nom)	<i>inch</i>	7,701
Internal Diameter	<i>inch</i>	6,875	Connection ID	<i>inch</i>	6,782
Nominal Area	<i>sqin.</i>	8,541	Coupling Length	<i>inch</i>	N/A
			Make-up Loss	<i>inch</i>	4,657
			Box critical area	<i>%PBYS</i>	58%
			Pin critical area	<i>%PBYS</i>	67%
Yield Strength	<i>klb</i>	1 068	Yield Strength	<i>klb</i>	619
Ultimate Strength	<i>klb</i>	1 153	Ultimate strength	<i>klb</i>	669
			Structural compression	<i>klb</i>	776
			Compression with sealability	<i>klb</i>	371
MIYP	<i>psi</i>	10 760	MIYP	<i>psi</i>	10 760
Collapse Pressure	<i>psi</i>	5 670	Ext Pressure Resistance	<i>psi</i>	5 670
			Regular Make-up Torque	<i>ft.lb</i>	
				<i>Min</i>	9 600
				<i>Opt</i>	11 300
				<i>Max</i>	13 000
			Maximum Torque with Sealability	<i>ft.lb</i>	58 500
			Maximum Torsional Value	<i>ft.lb</i>	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



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.:	NM136226
WELL NAME & NO.:	Biggers Federal – 201H
SURFACE HOLE FOOTAGE:	353'/S & 523'/W
BOTTOM HOLE FOOTAGE:	240'/N & 330'/W
LOCATION:	Sec. 18, T. 25 S, R. 35 E
COUNTY:	Lea County

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
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	
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP

**All previous COAs still apply except for the following:**

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

- The minimum required fill of cement behind the 7 5/8 X 7 inch 2<sup>nd</sup> intermediate casing is:
  - Cement as proposed. Operator shall provide method of verification.
- The minimum required fill of cement behind the 5 1/2 X 4 1/2 inch production casing is:
  - Cement as proposed. Operator shall provide method of verification.

**MHH 05172018**

## 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.