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.
NMLC063798

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.
CHARLES LING FED COM 214H

2. Name of Operator
MATADOR PRODUCTION COMPANY

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

9. API Well No.
30-025-45083

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

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

10. Field and Pool or Exploratory Area
WOLFCAMP

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 11 T24S R33E Mer NMP NENE 360FNL ~~526FWL~~ 791FEL

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 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.NMB0001079
Surety Bond No:RLB0015172

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# P-110 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# P-110 BTC/VAM DWC/C-IS HT to 5 1/2" 20# P-110 Eagle SFH. Spec sheet attached for 5 1/2" 20# Eagle SFH.

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

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.

SEE ATTACHED FOR CONDITIONS OF APPROVAL

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

Electronic Submission #445441 verified by the BLM Well Information System
For MATADOR PRODUCTION COMPANY, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 12/03/2018 ()

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

Signature (Electronic Submission) — Date 11/28/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By Mustafa Haque — Title Petroleum Engineer — Date 12-10-2018

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 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 ****

KZ

Additional data for EC transaction #445441 that would not fit on the form

32. Additional remarks, continued

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	1340	Surface
Intermediate	12-1/4"	9-5/8" (new)	40# J-55	BTC	5220	Surface
Intermediate 2 Top	8-3/4"	7-5/8" (new)	29.7# P-110	BTC	4920	4200
Intermediate 2 Middle	8-3/4"	7-5/8" (new)	29.7# P-110	VAM HTF-NR	11800	4200
Intermediate 2 Bottom	8-3/4"	7" (new)	29# P-110	BTC	12669	4200
Production Top	6-1/8"	5-1/2" (new)	20# P-110	VAM DWC/C-IS MS	11700	11700
Production Bottom	6-1/8"	4-1/2" (new)	13.5# P-110	VAM DWC/C-IS HT	17193	11700

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	1340	Surface
Intermediate	12-1/4"	9-5/8" (new)	40# J-55	BTC	5220	Surface
Intermediate 2 Top	8-3/4"	7-5/8" (new)	29.7# P-110	BTC	4920	4200
Intermediate 2 Bottom	8-3/4"	7-5/8" (new)	29.7# P-110	VAM HTF-NR	12546	4200
Production Top	6-3/4"	5-1/2" (new)	20# P-110	VAM DWC/C-IS MS	12200	11600
Production Bottom	6-3/4"	5-1/2" (new)	20# P-110	Eagle SFH	17194	11600

Name	Type	Sacks	Yield	Weight
Surface	Lead	800	1.82	13.5
	Tail	340	1.38	14.8
TOC = 0'		100% Excess		
Intermediate	Lead	1290	1.82	12.8
	Tail	500	1.38	14.8
TOC = 0'		100% Excess		
Intermediate 2	Lead	520	2.36	11.5
	Tail	320	1.38	14.8
TOC = 4200'		75% Excess		
Production	Tail	500	1.17	15.8
TOC = 11,700'		10% 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 + 2% CaCL2 + 3% 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

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Matador Production Company
LEASE NO.:	NMLC0063798
WELL NAME & NO.:	214H-Charles Ling Fed Com
SURFACE HOLE FOOTAGE:	360'/N & 791'/E
BOTTOM HOLE FOOTAGE	240'/S & 330'/E
LOCATION:	T-24S, R-33E, S-11. NMPM
COUNTY:	LEA, NM

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:

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

1. The minimum required fill of cement behind the **9 5/8 inch** first intermediate casing is:

   ☒ Cement to surface. If cement does not circulate, contact the appropriate BLM office.

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

2. 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.

3. 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 12102018

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

a. Spudding well (minimum of 24 hours)
b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
c. BOPE tests (minimum of 4 hours)

☒ Chaves and Roosevelt Counties
Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
During office hours call (575) 627-0272.
After office hours call (575)

☒ Eddy County
Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

☒ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

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.

TECHNICAL SPECIFICATIONS

These specifications are furnished for general information only and are not intended for design purposes. This information is preliminary and may change subject to a final design by VAM-USA Engineering. This is not a controlled document.

DWC/C-IS MS — **Casing** — **5.500" O.D.** — **20.00 lb./ft.** — **VST P-110EC**

standard

		Material
VST P-110EC		Grade
125,000		Minimum Yield Strength (psi.)
135,000		Minimum Ultimate Strength (psi.)
		Pipe Dimensions
5.500		Nominal Pipe Body OD (in.)
4.778		Nominal Pipe Body ID (in.)
0.361		Nominal Wall Thickness (in.)
20.00		Nominal Weight (lbs./ft.)
19.83		Plain End Weight (lbs./ft.)
5.828		Nominal Pipe Body Area (sq. in.)
		Pipe Body Performance Properties
729,000		Minimum Pipe Body Yield Strength (lbs.)
12,090		Minimum Collapse Pressure (psi.)
14,360		Minimum Internal Yield Pressure (psi.)
13,100		Hydrostatic Test Pressure (psi.)
		Connection Dimensions
6.115		Connection OD (in.)
4.778		Connection ID (in.)
4.653		Connection Drift Diameter (in.)
4.13		Make-up Loss (in.)
5.828		Critical Area (sq. in.)
100.0		Joint Efficiency (%)
		Connection Performance Properties
729,000	(1)	Joint Strength (lbs.)
26,040	(2)	Reference String Length (ft.) 1.4 Design Factor
728,000	(3)	API Joint Strength (lbs.)
729,000		Compression Rating (lbs.)
12,090		API Collapse Pressure Rating (psi.)
14,360	(4)	API Internal Pressure Resistance (psi.)
104.2		Maximum Uniaxial Bend Rating (degrees/100 ft.)
		Approximated Field End Torque Values
16,600	(5)	Minimum Final Torque (ft.-lbs.)
19,100	(5)	Maximum Final Torque (ft.-lbs.)
21,600	(6)	Connection Yield Torque (ft.-lbs.)

VAM-USA
4424 W. Sam Houston Pkwy, Suite 150
Houston, TX 77041
Phone: (713) 479-3200
Fax: (713) 479-3234
E-mail: VAMUSAsales@na.vallourec.com

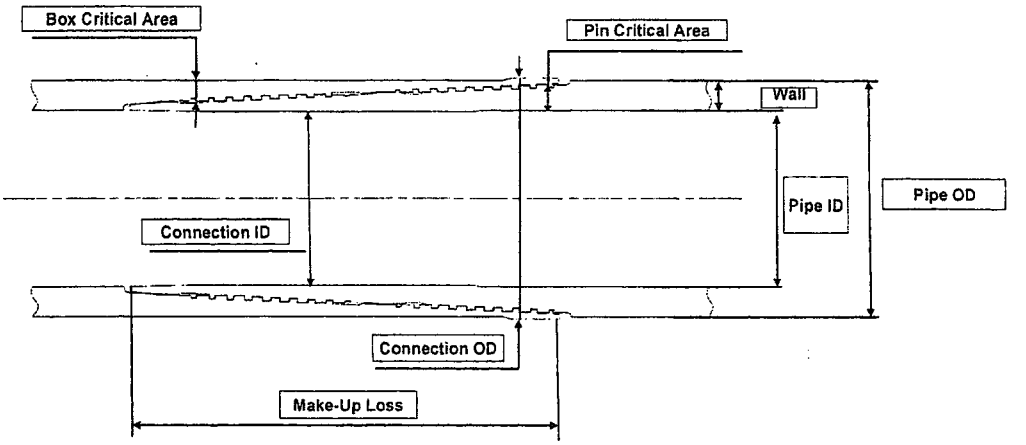
(1) Joint Strength is the minimum pipe body yield strength multiplied by the connection critical area.
(2) Reference String Length is the joint strength divided by both the weight in air and the design factor.
(3) API Joint Strength is for reference only. It is calculated from Formulas 42 and 43 in the API Bulletin 5C3.
(4) API Internal Pressure Resistance is calculated from Formulas 31, 32, and 35 in the API Bulletin 5C3.
(5) Torque values are approximated and may be affected by field conditions.
(6) Connection yield torque is not to be exceeded.

Connection specifications within the control of VAM-USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades v obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advi to obtain current connection specifications and verify pipe mechanical properties for each application.

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:

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

vallourec

Designed by :
X. MENCAGLIA

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

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	5.830	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