FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMEN CARISBAD FIELD
SUNDRY NOTICES AND REPORTS ON WELLS
SUNDRY NOTICES AND REPORTS ON WELLS

OF STATES

OMB N

Expires: J

Official No.

Do not use thi abandoned wel	s form for proposals to drill I. Use form 3160-3 (APD) fo	or to re-enter to some such proposals.	Artes af Indian, Allottee o	r Tribe Name
SUBMIT IN 1	RIPLICATE - Other instruct	tions on page 2	7. If Unit or CA/Agree NMNM124060	ement, Name and/or No.
1. Type of Well Gas Well Oth	er		8. Well Name and No. ZACH MCCORMI	CK FED COM 221H
Name of Operator MATADOR PRODUCTION CO	Contact: TAM DMPANYE-Mail: tlink@matadorro	MMY R LINK esources.com	9. API Well No. 30-015-44241-0	00-X1
3a. Address ONE LINCOLN CENTER 5400 DALLAS, TX 75240) LBJ FREEWAY SUITE 1570	Phone No. (include area code) 0 575-627-2465	10. Field and Pool or PIERCE CROS	
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description)		11. County or Parish,	State
Sec 18 T24S R29E Lot 1 712F 32.223061 N Lat, 104.031319			EDDY COUNTY	/, NM
12. CHECK THE AF	PROPRIATE BOX(ES) TO	INDICATE NATURE OF	NOTICE, REPORT, OR OTH	HER DATA
TYPE OF SUBMISSION		TYPE OF	ACTION	
Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
-	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	■ Well Integrity
☐ Subsequent Report	□ Casing Repair	■ New Construction	☐ Recomplete	Other
☐ Final Abandonment Notice	☐ Change Plans	☐ Plug and Abandon	□ Temporarily Abandon	Change to Original A PD
•	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	
determined that the site is ready for five BLM BOND NO. NMB001079 SURETY BOND NO. RLB001. Please see attached plats to right 712' FNL and 291' FWL of Seris no change in pad size or loc no change in BHL. SHL revision Matador also requests a variathan the 0.422" stand off regul well as other BLM representate 5/8" flush casing was run through the standard of the sta	evise SHL on Matador's Zache 18, T24S, R29E to 712' FNL action. SHL has moved within ons are to accommodate Matance to run 7-5/8" casing inside ation. Matador has met with ives and determined that this uphout the entire 300' cement and the second of the	and 351' FWL of Sec 18, previously approved footpador's drill schedule. e 9 5/8" BTC casing which Christopher Walls and Mu would be acceptable as lo	PPOVAT 19E RB #121H from T24S, R29E. There will be less stafa Haque as ong as the 7 9 5/8" and 7	Schere-VBW CONSERVATION SIA DISTRICT 27
14. I hereby certify that the foregoing is Com Name (Printed/Typed) TAMMY R	Electronic Submission #3879 For MATADOR PRODU Imitted to AFMSS for procession	JCTION COMPANY, sent to ng by PRISCILLA PEREZ or	the Carlsbad 10/03/2017 (18PP0053SE)	C1 2 2017 20 TO
Name (17th and 18pea)	LINK	Time Tittobo	OTION ANALTOT	The section of the se
Signature (Electronic S	submission)	Date 09/07/20	017	
	THIS SPACE FOR F	FEDERAL OR STATE (OFFICE USE	
Approved By Cedy A	lug tes	Title MA	- L\$N	12/04/17
Conditions of approval, if any, are attached certify that the applicant holds legal or equivalent would entitle the applicant to conduct the conductive that the applicant to conduct the applicant the applicant to conduct the applicant to conduct the applicant the applicant the applicant to conduct the applicant the applica	itable title to those rights in the subj	warrant or lect lease Office	0	
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent			willfully to make to any department or	r agency of the United

Additional data for EC transaction #387923 that would not fit on the form

32. Additional remarks, continued

5/8" casing. Please see attachments for new casing design.

Please contact Cassie Hahn by phone at 972-371-5440 or by e-mail chahn@matadorresources.com should you have any questions.

1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III
1000 Rio Brazos Road, Aziec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Sante Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Sante Fe, NM 87505

FORM C-102 Revised August 1, 2011 Submit one copy to appropriate **District Office**

\Box	AMENDED	REPORT
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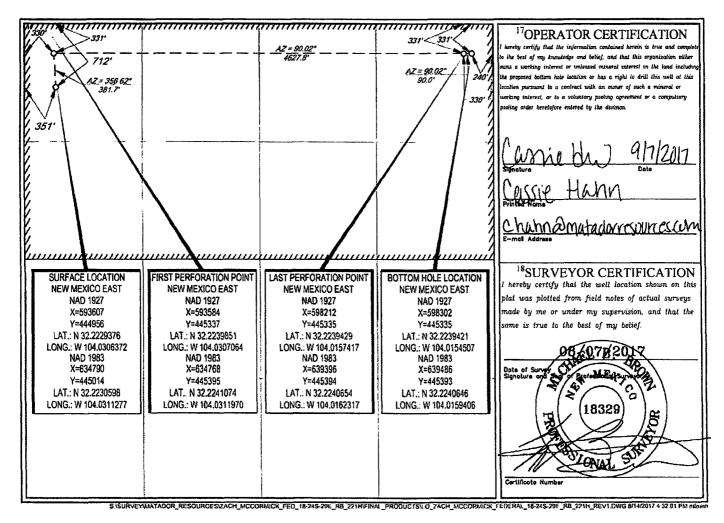
WELL LOCATION AND ACREAGE DEDICATION PLAT

98220	Purple Sage; Wolfcamp	
	• •	*Well Number #221H
	,	Elevation 2953'
	ZACH MCCORMICK	Purple Sage; Wolfcamp Property Name ZACH MCCORMICK FED 18-24S-29E RB Operator Name MATADOR PRODUCTION COMPANY

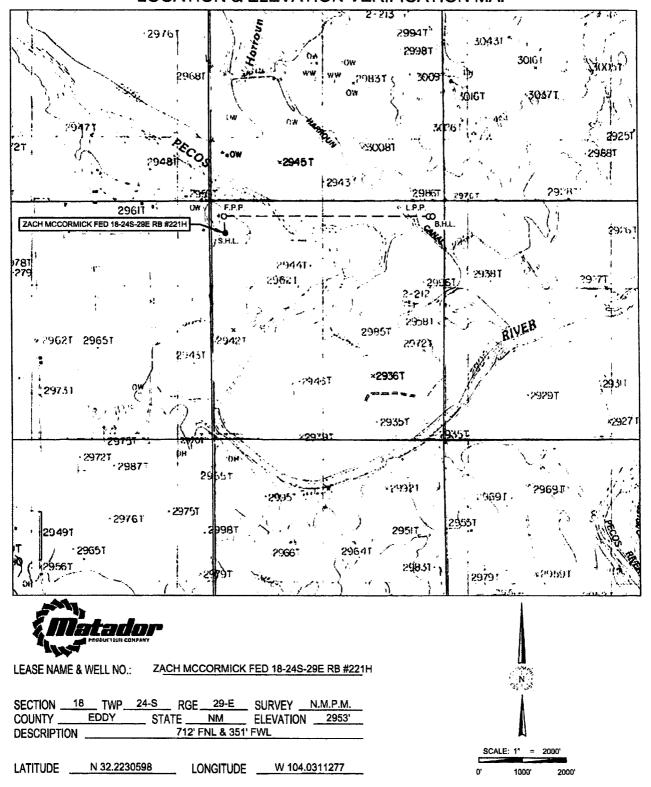
'Surface Location UL or let no. Section Township Range Lot Id: Feet from th North/South lie Feet from the East/West line County 351' WEST **EDDY** 24-S 29-E 712 NORTH 18

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	18	24-S	29-E	-	331'	NORTH	240'	EAST	EDDY
11Dedicated Acres	13 Joint or 1	infill 14C	ensolidation Code	15Order	r No.				
323.11	1								

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



LOCATION & ELEVATION VERIFICATION MAP



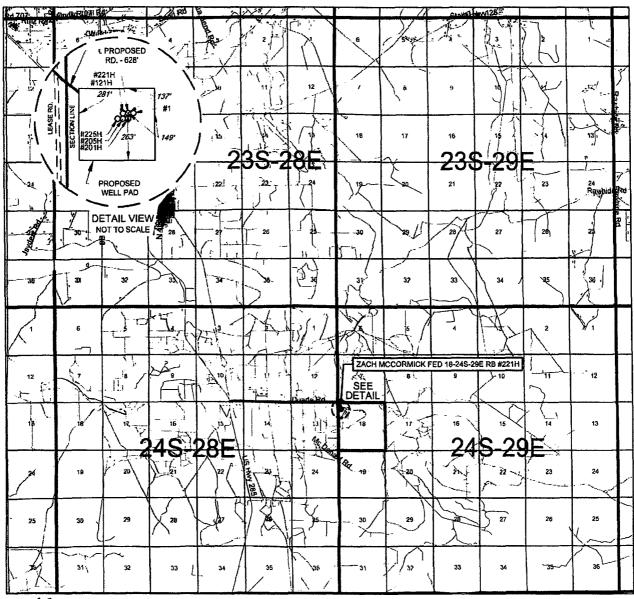
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1983, U.S. SURVEY FEET.



1400 EVERMAN PARKWAY, SIb. 197 - FT. WORTH, TEXAS 76140
1ELEPHONE: 1971 744-7512 - FAX (817) 744-17-76
2803 NORTH BIG SPRING - MIDLAND, TEXAS 78705
TELEPHONE: (432) 682-1653 OR (800) 787-1653 - FAX (432) 682-1743
WWW TOPOGRAPHIC COM

VICINITY MAP





LEASE NAME & WELL NO.: ZACH MCCORMICK FED 18-24S-29E RB #221H

 SECTION
 18
 TWP
 24-S
 RGE
 29-E
 SURVEY
 N.M.P.M.

 COUNTY
 EDDY
 STATE
 NM

 DESCRIPTION
 712' FNL & 351' FWL

DISTANCE & DIRECTION

FROM INT. OF US-285, & DUARTE RD.. GO EAST ON DUARTE RD. ±2.3
MILES, THENCE SOUTH (RIGHT) ON A PROPOSED ROAD ±626 FEET TO
A POINT ±300 FEET NORTHEAST OF THE LOCATION.

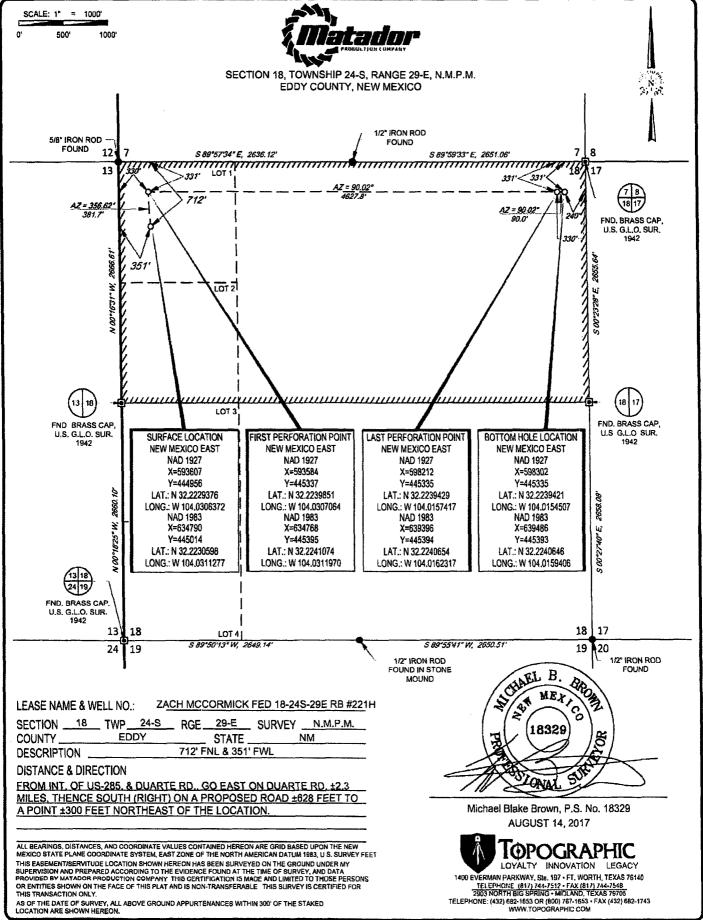
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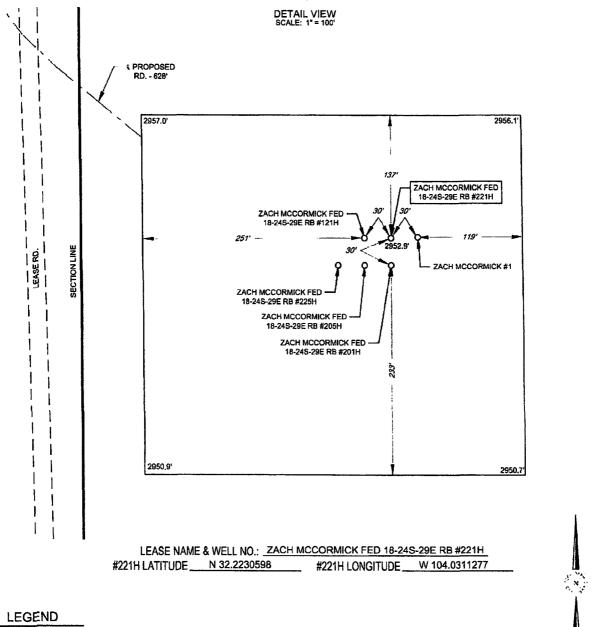


1400 EVERMAN PARKWAY, SI6 197 - FT. WORTH, TEXAS 76140
164EPHONE. (812) 744/7512 - FAX (817) 744/7548
2903 NOTH BIG SPRING - MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1630 OR (800) 767-1653 - FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM





SECTION 18, TOWNSHIP 24-S, RANGE 29-E, N.M.P.M. EDDY COUNTY, NEW MEXICO



ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1983, U.S. SURVEY FEET

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.



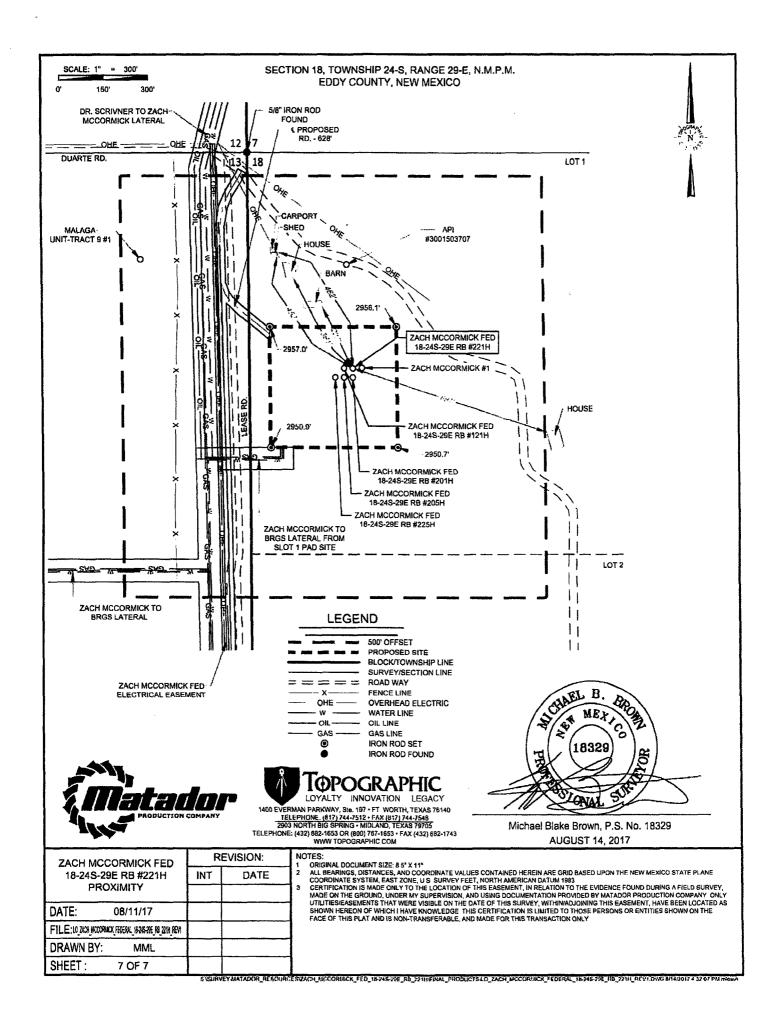
SCALE: 1"

= 100'

1400 EVERMAN PARKWAY, Sis. 197 • FT. WORTH, TEXAS 76140
TELEPHONE, (BIT) 744-7525 • FAX 1817) 744-7545
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 002-1033 OR (1000) 707-1033 • FAX (432) 002-1743
WWW TOPOGRAPHIC COM

BLOCK LINE PROPOSED ROAD

= = = EXISTING ROAD



Name	Hole Size	Casing Size	Wt/Grade	Thread Collar	Wt/Grade Thread Collar Setting Depth Top Cement	Top Cement
Surface	17-1/2"	17-1/2" 13-3/8" (new)	54.5# J-55	BTC	,059 <u>,005</u>	600 65° Surface
Intermediate	12-1/4"	9-5/8" (new)	40# 1-55	ВТС	2750	Surface
Intermediate 2 Top	8-3/4"	7-5/8" (new) 29.7# P-110	29.7# P-110	BTC	2450	2450
Intermediate 2 Middle	8-3/4"	7-5/8" (new)	29.7# P-110	7-5/8" (new) 29.7# P-110 VAM HTF-NR	10000	2450
Intermediate 2 Bottom	8-3/4"	7" (new)	29# P-110	ВТС	10794	2450
Production Top	6-1/8"	5-1/2" (new)	20# P-110	BTC/TXP	0066	10300
Production Bottom	.8/1-9	4-1/2" (new) 13.5# P-110	13.5# P-110	BTC/TXP	15432	10300

Name	Type	Sacks	Yield	Weight	Blend
Surface	Tail	400	1.38	14.8	Class C + 5% NaCl + LCM
TOC = 0'			100% Excess	3	Centralizers per Onshore Order 2.III.B.1f
Intermediate	Lead	550	2.13	12.6	Class C + Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	270	1.38	14.8	Class C + 5% NaCl + LCM
TOC = 0			100% Excess	10	2 on btm jt, 1 on 2nd jt, 1 every 4th jt to surface
Intermediate 2	Lead	400	2.13	12.6	TXI + Fluid Loss + Dispersant + Retarder + LCM
	Tail	310	1.38	14.8	TXI + Fluid Loss + Dispersant + Retarder + LCM
					2 on btm jt, 1 on 2nd jt, 1 every 4th jt to top of tail
TOC = 2450'	o,		60% Excess		cement (500' above TOC)
Production	Tail	510	1.17	15.8	Class H + Fluid Loss + Dispersant + Retarder + LCM
					2 on btm jt, 1 on 2nd jt, 1 every other jt to top of
TOC = 10,30	,300,		25% Excess	-	curve

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

February 02 2017



Size: 5.500 in. Wall: 0.361 in.

Connection: TenarisXP® BTC Weight: 20.00 lbs/ft Grade: P110-IC Casing/Tubing: CAS

Coupling Option: REGULAR Min. Wall Thickness: 87.5 %

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				
·					· · · · · · · · · · · · · · · · · · ·
Body Yield Strength	641 x 1000 lbs	Internal Yield	12630 psi	SMYS	110000 psi
Collapse	12100 psi				
Connection OD Critical Section Area	5.828 sq. in.	Coupling Length Threads per in.	9.450 in. 5.00	Connection ID Make-Up Loss	4.766 in. 4.204 in.
Tongian Efficiency	100 %	Joint Yield Strength	641 x 1000	Internal Pressure Capacity ⁽¹⁾	12630 psi
Tension Efficiency			,) Supusit,	
Structural Compression Efficiency	100 %	Structural Compression Strength	641 × 1000	Structural Bending ⁽²⁾	92 °/100 f
Structural Compression		Compression	641 × 1000	Structural	92 %100 f
Structural Compression Efficiency External Pressure		Compression	641 × 1000	Structural	92 °/100 f

⁽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 $compounds \ please \ contact \ us \ at \ \underline{licensees@oilfield.tenaris.com}. \ Torque \ values \ may \ be \ further \ reviewed.$ For additional information, please contact us at $\underline{contact\text{-}tenaris\text{-}hydril@tenaris.com}$

CONNECTION DATA SHEET (Imperial Units)



Connection:

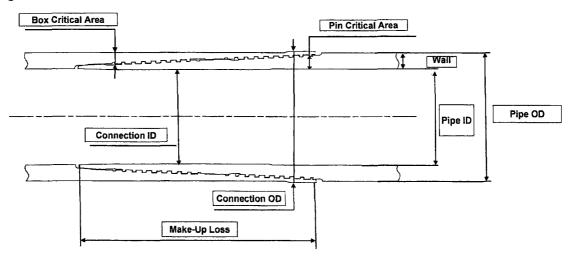
VAM® HTF-NR 7,625" 29,70# P110EC

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 BC	DY PROF	PERTIES:	CONNECT	ION PR	OPERI	TIES:
Outside Diameter	inch	7.625	Connection OD (nom)	inch		7,701
Internal Diameter	inch	6,875	Connection ID	inch		6,782
		•	Coupling Length	inch		N/A
Nominal Area	sqin.	8,541	Make-up Loss	inch		4,657
•			Box critical area	%PBYS		58%
			Pin critical area	%PBYS		67%
Yield Strength	klb	1 068	Yield Strength	klb		619
Ultimate Strength	kib	1 153	Ultimate strength	kib		669
			Structural compression	kib		776
			Compression with sealability	kib		371
MIYP	psi	10 760	MIYP	psi		10 760
Collapse Pressure	psi	5 670	Ext Pressure Resistance	psi		5 670
			Regular Make-up Torque	ft.lb		
				Min		9 600
				Opt		11 300
				Max		13 000
			Maximum Torque with Seal	ability	ft.lb	58 500
			Maximum Torsional Value	•	ft.lb	73 000

No one knows VAM like VAM

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usa@vamfieldservice.com brazil@vamfieldservice.com 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:

Date:

July 19, 2016

For the latest performance data, always visit our website: 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 %

Nominal OD	4.500 in.	Nominal Weight	13.50 lbs/ft	Standard Drift Diameter	3.795 in.
Nominal ID	3.920 in.	Wall Thickness (0.290 in.	Special Drift Diameter	N/A
Plain End Weight	13.05 lbs/ft				
Body Yield Strength	479 x 1000 lbs	Internal Yield	14100 psi	SMYS	125000 psi
Collapse	11620 psi				
Connection OD Critical Section	5.000 in. 3.836 sq. in.	Coupling Length Threads per in.	9.075 in.	Connection ID Make-Up Loss	3.908 in. 4.016 in.
Area					
Tension Efficiency	100 %	Joint Yield Strength	479 x 1000 lbs	Internal Pressure Capacity ⁽¹⁾	14100 psi
Church und		Structural Compression	479 x 1000	Structural Bending ⁽²⁾	127 °/100 t
Structural Compression Efficiency	100 %	Strength	105	Deliding -	
Compression	100 % 11620 psi		105	Defiding 5	
Compression Efficiency External Pressure			7720 ft-lbs	Maximum	8490 ft-lbs

⁽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. Torque values may be further reviewed. For additional information, please contact us at $\underline{contact-tenarishydril@tenaris.com}$

PECOS DISTRICT DRILLING OPERATIONS CONDITIONS OF APPROVAL

OPERATOR'S NAME: | Matador Production Company

LEASE NO.: | NMNM117120

WELL NAME & NO.: 221H-Zach McCormick Fed Com

SURFACE HOLE FOOTAGE: 712'/N & 351'/W BOTTOM HOLE FOOTAGE 331'/N & 240'/E

LOCATION: | Section 18, T.24 S., R.29 E., NMPM

COUNTY: | Eddy County, New Mexico

All previous COAs still apply, except for the following:

A. CASING

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.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

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.

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.

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

Medium Cave/Karst

Possible water flows in the Artesia Group and Salado.

Possibility of lost circulation in the Artesia Group, Rustler, Capitan Reef, and Delaware.

Abnormal pressure might be encountered upon entering third Bone Spring and subsequent formations.

- 1. The 13-3/8 inch surface casing shall be set at approximately 650 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered, set casing at least 25 feet above the salt. Excess calculates to 9% additional cement might be required.
 - 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 is to include the lead cement slurry.
 - 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 9-5/8 inch first intermediate casing, is:
 - Cement to surface. If cement does not circulate see A.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.

If cement does not circulate to surface on the the first two casing strings, the cement on the third casing must come to surface.

- 3. The minimum required fill of cement behind the 7 5/8 X 7 inch second intermediate casing, is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

Formation below the 7 5/8" X 7.0" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight

required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

- 4. The minimum required fill of cement behind the 5 1/2 X 4 1/2 inch production casing, is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.
- 5. 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.

MHH 12042017