Form 3160-5 (June 2015)

C.ITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

Lease Serial No.

	SUNDR	Y NO	TICES	AND	REPO	RTS C	N WE	ELĻS
Dο	not use:	this fo	rm for	propo	sals to	drill or	to re	-eritar

NMNM117120

	Do not use thi abandoned wel	s form for proposals to dril II. Use form 3160-3 (APD) fo TRIPLICATE - Other instruc	l or to re-enfar en or such proposition	6. If Indian, Allottee	e or Tribe Name
:	SUBMIT IN 1	FRIPLICATE - Other instruc	tions on page	7. If Unit or CA/Ag NMNM124060	reement, Name and/or No.
•	Type of Well Oil Well		RECEIVE	8. Well Name and N ZACH MCCORI	o. MICK FED COM 221H
•	Name of Operator MATADOR PRODUCTION CO	Contact: TAN DMPANYE-Mail: tlink@matadorr	MMY R LINK resources.com	9. API Well No. 30-015-44241	-00-X1
	3a. Address ONE LINCOLN CENTER 5400 DALLAS, TX 75240		Phone No. (include area code) 0 575-627-2465	, PIERCE CRO	r Exploratory Area SSING Au Wa, au
•	4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description)		11. County or Parisl	
	Sec 18 T24S R29E Lot 1 712F 32.223061 N Lat, 104.031319		/	EDDY COUN	TY, NM
•	12. CHECK THE AF	PROPRIATE BOX(ES) TO	INDICATE NATURE O	F NOTICE, REPORT, OR O	THER DATA
	TYPE OF SUBMISSION		TYPE OI	F 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	
	following completion of the involved testing has been completed. Final Ab determined that the site is ready for fit BLM BOND NO. NMB001079 SURETY BOND NO. RLB001: Please see attached plats to re 712' FNL and 291' FWL of See is no change in pad size or loc no change in BHL. SHL revision Matador also requests a variation the 0.422" stand off regul well as other BLM representation.	evise SHL on Matador's Zache 18, T24S, R29E to 712' FNI cation. SHL has moved within ons are to accommodate Matador. Matador. Matador. Matador has met with	ATTACHED FOR ATTACHED FOR ATTACHED FOR A McCormick Fed 18-24S-L and 351' FWL of Sec 18 previously approved foot ador's drill schedule. e 9 5/8" BTC casing which Christopher Walls and Michael ATTACHED FOR ATTACHED	ing reclamation, have been complete P P P P P P P P P P P P P P P P P P	- Surface - VBW
1/2017 :	5/8" flush casing was run throi	ughout the entire 300' cemen	t tie back section betweer	n 9 5/8" and 7	
	14. I hereby certify that the foregoing is	Electronic Submission #3879	UCTION COMPANY, sent t	o the Carlsbad	ARTESIA DISTRICT
	Name(Printed/Typed) TAMMY R	· · · · · · · · · · · · · · · · · · ·		JCTION ANALYST	JAN 04 2018
•	Signature (Electronic S	Submission)	Date 09/07/2	017	RECEIVED
•		THIS SPACE FOR	FEDERAL OR STATE	OFFICE USE	
•	Approved By Cadall	luster	Title M	h-LAN	12/04/17 Date 04/17
	Conditions of approval, if any, are attached certify that the applicant holds legal or equivalent would entitle the applicant to condu	iitable title to those rights in the subj	warrant or ject lease Office	, 10	
:	Title 18 U.S.C. Section 1001 and Title 43	U.S.C. Section 1212 make it a crim	e 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 **

RN 1-5-2018.

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.

District 1
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District 11
811 S. First St , Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Azuec, 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

323.11

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

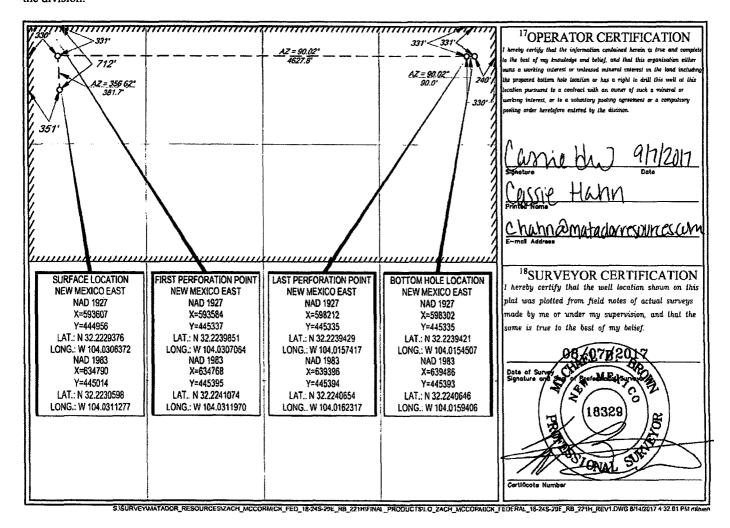
FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

■ AMENDED REPORT

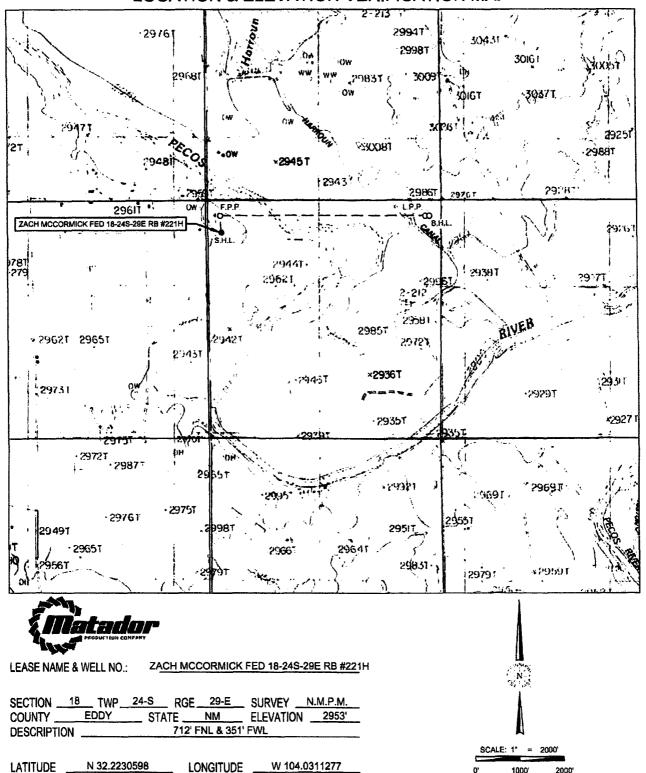
WELL LOCATION AND ACREAGE DEDICATION PLAT

3	'API Number 0 - 015 - 44			²Pool Code 98220		Purple	³ Pool Name Sage; Wolfcam	ip	
*Property (317797			ZACH	MCCO	Property National RMICK FED	18-24S-29	E RB		Number 221H
OGRID 1 22893			М	ATADOR	Operator Na.	me ION COMPAN	Y		levation 953'
					10 Surface Loc	cation			
UL or lat no.	Section 18	Township 24-S	29-E	Lot Idn	Feet from the 712'	North/South line NORTH	Feet from the 351'	East/West line WEST	County EDDY
UL or lot no.	Section 18	Township 24-S	Range 29-E	Lot Idn	Feet from the	North/South line	Feet from the	East/West line EAST	County EDDY

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

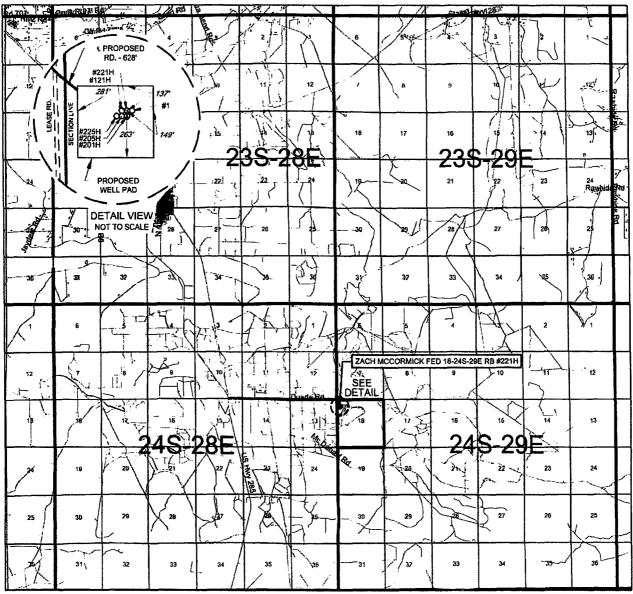


THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY, THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE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



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 ±628 FEET TO
A POINT ±300 FEET NORTHEAST OF THE LOCATION.

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

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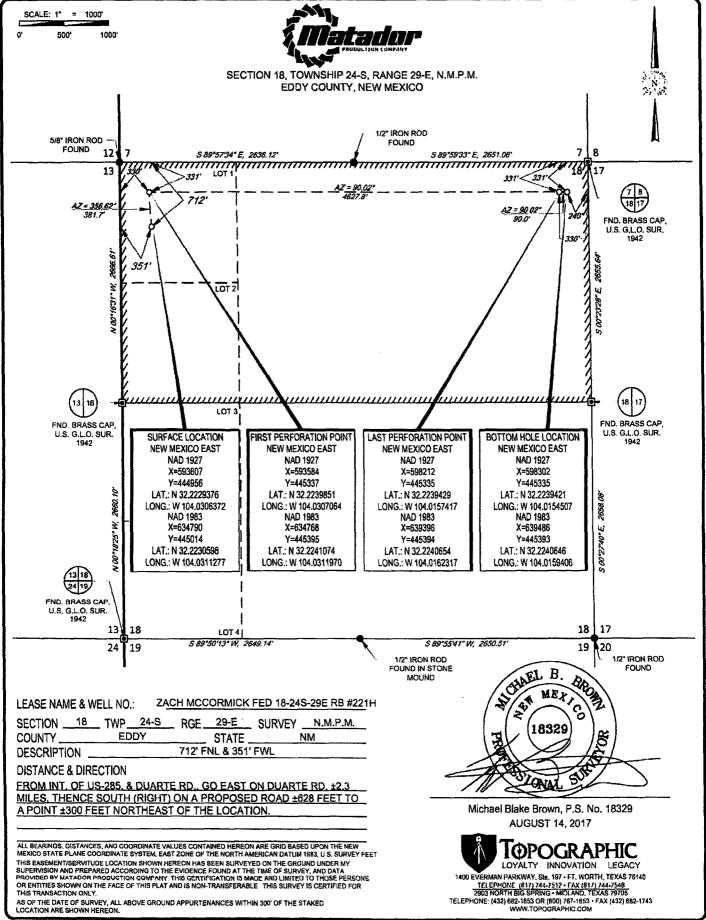
1400 EVERMAN PARKWAY, SI6 197 - FT. WORTH, TEXAS 75140

<u>TELEPHONE</u> (817) 744-7512 - FAX (817) 744-7548

<u>2903 NORTH BIG SPRING - MIDLAND, TEXAS 79705</u>

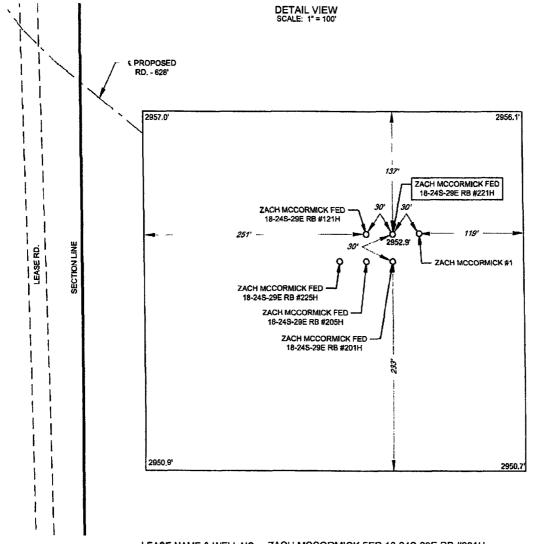
TELEPHONE: (432) 682-1853 OR (800) 767-1653 - FAX (432) 682-1743

WWW TOPOGRAPHIC COM





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



LEASE NAME & WELL NO .: ZACH MCCORMICK FED 18-24S-29E RB #221H #221H LATITUDE N 32.2230598 #221H LONGITUDE W 104.0311277

LEGEND

EXISTING ROAD **BLOCK LINE**

PROPOSED ROAD



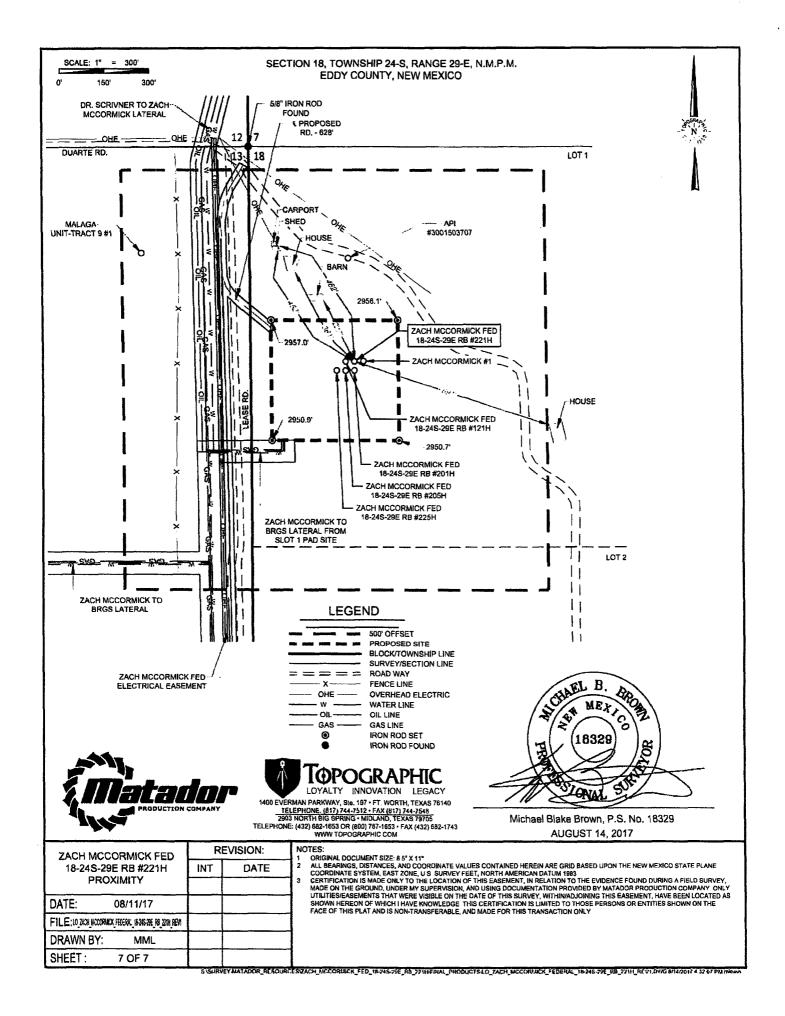
SCALE: 1"

100'

1400 EVERMAN PARKWAY, Sie, 197 • FT. WORTH, TEXAS 76140 TELEPHONE (817) 744-7512 • FAX (817) 744-7548
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 002-1033 OF (000) 707-1053 • FAX (432) 082-1743
WWW TOPOGRAPHIC COM

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.



	Hole Size	Casing Size	Wt/Grade	Thread Collar	Thread Collar Setting Depth Top Cement	Top Cement
Surface 17-1	17-1/2"	13-3/8" (new)	54.5# J-55	BTC	690 65°	Surface
te	12-1/4"	9-5/8" (new)	40# J-55	ВТС	2750	Surface
Intermediate 2 Top 8-3/4"	1/4"	7-5/8" (new)	29.7# P-110	BTC	2450	2450
Intermediate 2 Middle 8-3/4"	3/4"	7-5/8" (new)	29.7# P-110	VAM HTF-NR	10000	2450
Intermediate 2 Bottom 8-3/4"	1/4"	7" (new)	29# P-110	BTC	10794	2450
Production Top 6-1/	6-1/8"	5-1/2" (new)	20# P-110	BTC/TXP	9900	10300
Sottom	6-1/8"	4-1/2" (new) 13.5# P-110	13.5# P-110	BTC/TXP	15432	10300
	2	() = /				

	Name	Туре	Sacks	Yield	Weight	Blend
,	Surface	Tail	400	1.38	14.8	Class C + 5% NaCl + LCM
	TOC = 0'			100% Excess		Centralizers per Onshore Order 2.III.B.1f
Inte	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
	10C = 0			100% Excess		2 on btm jt, 1 on 2nd jt, 1 every 4th jt to surface
Inte	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'	٥,		60% Excess		cement (500' above TOC)
Ţ	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 = 10,300'	,0(25% Excess		curve

Many State

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: 5.500 in. **Wall**: 0.361 in. Weight: 20.00 lbs/ft

Grade: P110-IC

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).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				
Critical Section Area	5.828 sq. in.	Threads per in.	5.00	Make-Up Loss	4.204 in.
	6.100 in. 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.
		T	5.5 1000	Internal Pressure	
Tension Efficiency	100 %	Joint Yield Strength	641 x 1000 lbs	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				
	11270 ft-lbs	Optimum	12520 ft-lbs	Maximum	13770 ft-II
Minimum					
Minimum Operating Torque	21500 ft-lbs	Yield Torque	23900 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 contact-tenarishydril@tenaris.com

CONNECTION DATA SHEET (Imperial units)

Connection:

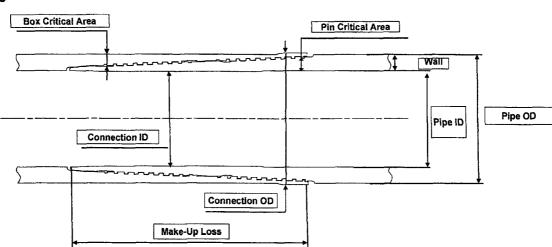
VAM® HTF-NR 7,625" 29,70# P110EC

Alternate Drift:

6,750"

Drawing: PD-101836P PD-101836B

Isolated connection



OD

WEIGHT

WALL

GRADE

API DRIFT 6,750"

7,625" 29,70 lb/ft 0,375" P110EC

PIPE BO	DY PROF	PERTIES:	CONNECT	ION PR	OPERT	ries:
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	klb	1 153	Ultimate strength	klb		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 Sea	lability	ft.lb	58 500
			Maximum Torsional Value	-	ft.lb	73 000

No one knows VAM like VAM

uk@vamfieldservice.com dubai@vamfieldservice.com angola@vamfieldservice.com singapore@vamfieldservice.com



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

OCTG DIVISION

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 (). 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				
Critical Section Area	3.836 sq. in.	Threads per in.	5.00	Make-Up Loss	4.016 in.
Area	3.836 sq. in.	inreads per in.		Make-Up Loss	4.016 in.
Tension Efficiency	100 %	Joint Yield Strength	479 x 1000 lbs	Internal Pressure Capacity $(\underline{1})$	14100 psi
		Structural Compression	479 x 1000	Structural Bending ⁽²⁾	127 %100 f
Structural Compression Efficiency	100 %	Strength	103	ĺ	
Compression	100 % 11620 psi		103		
Compression Efficiency External Pressure			7720 ft-lbs	Maximum	8490 ft-lbs
Compression Efficiency External Pressure Capacity	11620 psi	Strength		Maximum	8490 ft-lbs

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

section 10.3 API 5C3 / 1SO 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 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