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

	Expires:	January
Lease	Serial No.	

SUNDRY NOTICES AND REPORTS ON WELLS

On not use the	is form for proposals to		-LLO		1411111111100220	
				CD	6. If Indian, Allottee or	Tribe Name
SUBMIT IN	II. Use form 3160-3 (API	tructions on	(GBB3	010	7. If Unit or CA/Agreen	ment, Name and/or No.
Type of Well Gas Well	пет	a	AUG 222	<i>U</i> 13	8. Well Name and No. Multiple—See Attac	hed
2. Name of Operator MATADOR PRODUCTION CO 3a. Address 5400 LB LEPESWAY SHITE 1	Contact: OMPANYE-Mail: cade.labolt	CADE LABO @matadorreso	LT CE	MED	9. API Well No. Multiple-See Att	ached
3a. Address 5400 LBJ FREEWAY SUITE 1 DALLAS, TX 75240	1500	3b. Phone No Ph: 972-62	. (include area code) 9-2158)	10. Field and Pool or E DOGIE DRAW-D	xploratory Area DELAWARE
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description,)			11. County or Parish, S	tate
MultipleSee Attached					LEA COUNTY, N	IM
12. CHECK THE AF	PPROPRIATE BOX(ES)	TO INDICA	TE NATURE O	F NOTICE,	REPORT, OR OTH	ER DATA
TYPE OF SUBMISSION			TYPE OF	ACTION		
Notice of Intent	☐ Acidize	☐ Dee	pen	☐ Producti	on (Start/Resume)	☐ Water Shut-Off
_	☐ Alter Casing	☐ Hyd	raulic Fracturing	☐ Reclama	tion	■ Well Integrity
☐ Subsequent Report	Casing Repair	□ New	Construction	□ Recomp	lete	Other Change to Original A
☐ Final Abandonment Notice	□ Change Plans		and Abandon	☐ Tempora	urily Abandon	PD
	☐ Convert to Injection	Plug	Back	☐ Water D	isposal	
following completion of the involved testing has been completed. Final Ab determined that the site is ready for fi BLM Bond No. NMB0001079 Surety Bond No. RLB0015172 Matador request an open hole - Biggers Federal #202H (30-0 - Biggers Federal #215H (30-0 All wells are identical and on the Change Intermediate 2 from - Change Production hole size - Change Production bottom cannot be the size of the s	and casing size change (125-44482) (125-44484) (125-44484) (125-44484) (125-44484) (125-44484) (125-44484) (125-44484) (125-4484) (1	or the wells li or the wells li ole and casing	ested below: g size changes b P-110, BTC with	pelow: Vam HTF-N 0#, P-110, V	OCD HO	d the operator has
14. I hereby certify that the foregoing is	true and correct. Electronic Submission #4 For MATADOR P	75767 verifier	by the BLM Well	I Information	System	•
Com	mitted to AFMSS for proce				19PP2711SE)	
Name (Printed/Typed) CADE LAE	BOLT		Title ASSOC	IATE LANDI	/AN	· - -
Signature (Electronic S	ubmission)		Date 07/30/20	019		
	THIS SPACE FO	R FEDERA	L OR STATE (OFFICE US	SE .	
Approved By_NDUNGU KAMAU_			TitlePETROLE	UM ENGINE	ER	Date 08/07/2019
Conditions of approval, if any, are attached certify that the applicant holds legal or equipath would entitle the applicant to conduct	itable title to those rights in the		Office Hobbs			
Fitle 18 U.S.C. Section 1001 and Title 43 U.States any false, fictitious or fraudulent st				willfully to ma	ke to any department or a	gency of the United

(Instructions on page 2)
** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

Additional data for EC transaction #475767 that would not fit on the form

Wells/Facilities, continued

Agreement NMNM136226 NMNM136226 **Lease** NMNM136226 NMNM136226 Well/Fac Name, Number BIGGERS FEDERAL 215H BIGGERS FEDERAL 202H API Number 30-025-44484-00-X1 30-025-44482-00-X1 Location Sec 18 T25S R35E SWSW 387FSL 498FWL 32.124249 N Lat, 103.413528 W Lon Sec 18 T25S R35E SESW 390FSL 2112FWL 32.124081 N Lat, 103.408257 W Lon

32. Additional remarks, continued

DWC/C IS MS with Eagle SFH.

Spec sheets attached for the 5-1/2? 20# Eagle SFH, 5-1/2? 20# DWC/C IS MS, the 7-5/8? 29.7 P-110 Vam HTF-NR.

Please see the attached table below detailing the changes referencing the Biggers Federal #202H depths (deepest well on pad).

Please email all questions to Blake Hermes, bhermes@matadorresources.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.

All previous COAs will be followed.

Revisions to Operator-Submitted EC Data for Sundry Notice #475767

Operator Submitted

BLM Revised (AFMSS)

Sundry Type:

CSG-ALTER NOI

Lease:

NMNM136226

APDCH NOI

NMNM136226

Agreement:

Operator:

MATADOR PRODUCTION COMPANY 5400 LBJ FWY SUITE 1500 DALLAS, TX 75240 Ph: 972-371-5200

MATADOR PRODUCTION COMPANY 5400 LBJ FREEWAY SUITE 1500 DALLAS, TX 75240 Ph: 972.371.5200

Admin Contact:

CADE LABOLT

ASSOCIATE LANDMAN

E-Mail: cade.labolt@matadorresources.com

Ph: 972-629-2158

CADE LABOLT ASSOCIATE LANDMAN E-Mail: cade.labolt@matadorresources.com

Ph: 972-629-2158

Tech Contact:

CADE LABOLT ASSOCIATE LANDMAN E-Mail: cade.labolt@matadorresources.com

Ph: 972-629-2158

CADE LABOLT

ASSOCIATE LANDMAN
E-Mail: cade.labolt@matadorresources.com

Ph: 972-629-2158

Location:

State: County: NM

Field/Pool:

DOGIE DRAW; WOLFCAMP

NM LEA

DOGIE DRAW-DELAWARE

Well/Facility:

BIGGERS FEDERAL 202H Sec 18 T25S R35E Mer NMP 390FSL 2112FWL

BIGGERS FEDERAL 215H Sec 18 T25S R35E SWSW 387FSL 498FWL 32.124249 N Lat, 103.413528 W Lon BIGGERS FEDERAL 202H Sec 18 T25S R35E SESW 390FSL 2112FWL 32.124081 N Lat, 103.408257 W Lon

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: MATADOR PRODUCTION COMPANY LEASE NO.: NMNM136226 COUNTY: LEA

BIGGERS FEDERAL 202H

LOCATION: Section 18, T.25 S., R.35 E., NMPM SURFACE HOLE FOOTAGE: 390'/S & 2112'/W BOTTOM HOLE FOOTAGE: 240'/N & 2130'/W

BIGGERS FEDERAL 215H

LOCATION: Section 18, T.25 S., R.35 E., NMPM SURFACE HOLE FOOTAGE: 387'/S & 498'/W BOTTOM HOLE FOOTAGE: 240'/N & 988'/W

ALL PREVIOUS COAs STILL APPLY

A. CASING

1. The minimum required fill of cement behind the 7-5/8 inch production casing is:

Option 1 (Single Stage):

• Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
- 2. The minimum required fill of cement behind the 5-1/2 inch production liner is:

• Cement should tie-back 100 feet into the previous casing. Operator shall provide method of verification.

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
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

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. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 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. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 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.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been

done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test

does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Technical Specifications

Connection Type:

VST P110 EC

125,000 135,000

100.0

Size(O.D.):

Weight (Wall):

Grade:

DWC/C-IS MS Casing

5-1/2 in

20.00 lb/ft (0.361 in)

VST P110 EC

standard

Material	
Grade	
Minimum Yield Strength (psi)	

Minimum Ultimate Strength (psi)

4424 W. Sam Houston Pkwy. Suite 150 Houston, TX 77041 Phone: 713-479-3200

Fax: 713-479-3234

VAM USA

E-mail: VAMUSAsales@vam-usa.com

	Pipe Dimensions
5.500	Nominal Pipe Body O.D. (in)
4.778	Nominal Pipe Body I.D.(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)
	Pina Rady Porformance Prope

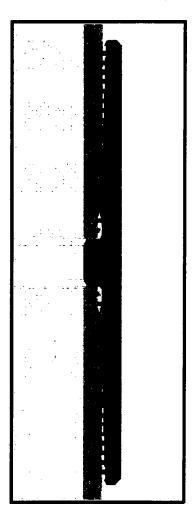
Pipe Body Performance Properties Minimum Pipe Body Yield Strength (lbs) 729.000 Minimum Collapse Pressure (psi) 12,090 14,360 Minimum Internal Yield Pressure (psi) 13,100 Hydrostatic Test Pressure (psi)

Connection Dimensions Connection O.D. (in) 6.115 4.778 Connection I.D. (in) 4.653 Connection Drift Diameter (in) 4.13 Make-up Loss (in) 5.828 Critical Area (sq in)

> Joint Efficiency (%) **Connection Performance Properties**

729,000 Joint Strength (lbs) 26,040 Reference String Length (ft) 1.4 Design Factor 728,000 API Joint Strength (lbs) 729,000 Compression Rating (lbs) 12.090 API Collapse Pressure Rating (psi) 14.360 API Internal Pressure Resistance (psi) Maximum Uniaxial Bend Rating [degrees/100 ft] 104.2

Appoximated Field End Torque Values 16,100 Minimum Final Torque (ft-lbs) Maximum Final Torque (ft-lbs) 18,600 21,100 Connection Yield Torque (ft-lbs)



For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

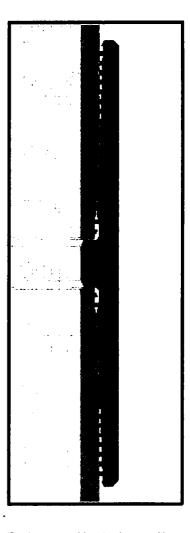
Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained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

All information is provided by VAM USA or its affiliates at user's sole risk, without liability for loss, damage or injury resulting from the use thereof; and on an "AS IS" basis without warranty or representation of any kind, whether express or implied, including without limitation any warranty of merchantability, fitness for purpose or completeness. This document and its contents are subject to change without notice. In no event shall VAM USA or its affiliates be responsible for any indirect, special, incidental, punitive, exemplary or consequential loss or damage (including without limitation, loss of use, loss of bargain, loss of revenue, profit or anticipated profit) however caused or arising, and whether such losses or damages were foreseeable or VAM USA or its affiliates was advised of the possibility of such damages.



DWC Connection Data Notes:

- 1. DWC connections are available with a seal ring (SR) option.
- All standard DWC/C connections are interchangeable for a give pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
- 3. Connection performance properties are based on nominal pipe body and connection dimensions.
- 4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
- 5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
- 6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
- 7. Bending efficiency is equal to the compression efficiency.
- The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
- 9. Connection yield torque is not to be exceeded.
- 10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
- DWC connections will accommodate API standard drift diameters.



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1/11/2017 8:38:10 AM



Connection Data Sheet

engalization (Francisco)

OD 5 1/2 in. Weight 20.00 lb/ft

Wall Th. 0.361 in.

Grade P110EC

API Drift 4.653 in. Connection VAM® EDGE SF

PIPE PROP	ERTIES	
Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Cross Section Area	5.828	sqin.
Grade Type	Extended Collapse	
Minimum wall	87.5	%RBW
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Ultimate Tensile Strength	135	ksi
Tensile Yield Strength	729	klb
Internal Yield Pressure	14,360	psi
Collapse pressure	12,090	psi

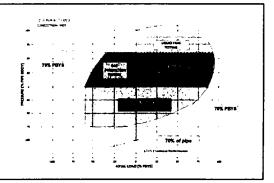
CONNECTION PROPERTIES			
Connection Type	Premium Integral Semi-Flush		
Connection OD (nom)	5.765 in.		
Connection ID (nom)	4,706 in.		
Make-Up Loss	5.236 in.		
Critical Cross Section	4.611 in.		
Tension Efficiency	79 % of pipe		
Compression Efficiency	79 % of pipe		
Internal Pressure Efficiency with Water	100 % of pipe		
Internal Pressure Efficiency with Gas	70 % of pipe		
External Pressure Efficiency	70 % of pipe		

CONNECTION PERFORMA	ANCES
Tensile Yield Strength	576 klb
Compression Resistance, Sealability	576 klb
Compression Resistance, Structural	576 klb
Internal Yield Pressure with Water	14,360 psi
Internal Yield Pressure with Gas	10,050 psi
External Pressure, Sealability	8,460 psi
External Pressure, Structural	12,090 psi
Max. Bending with Sealability	40 °/100ft

TORQUE VAL	UES
Min. Make-up torque	16,950 ft.lbs
Opti. Make-up torque	17,950 ft.lbs
Max. Make-up torque	18,950 ft.lbs
Max. Torque with Sealability	29,500 ft.lbs
Max. Torsional Value	32,500 ft.lbs

The solution for High Torque, High Tension Shale play needs

VAM® EDGE SF™ is a gas-tight expanded box premium connection with increased tension and torque capacity, making it ideal for production casing in the Shale plays. The tapered two-step design technology means that it stabs deep with very low risk of cross-threading. VAM® EDGE SF™'s high tension rating plus extremely high torque capacity make it ideal to run a full string length as production casing in Shale wells with extended horizontal sections.



Do you need help on this product? - Remember no one knows VAM® like VAM

canada@vamfieldservice.com usa@vamfieldservice.com mexico@vamfieldservice.com brazil@vamfieldservice.com uk@vamfieldservice.com dubai@vamfieldservice.com nigeria@vamfieldservice.com angola@vamfieldservice.com china@vamfieldservice.com baku@vamfieldservice.com singapore@vamfieldservice.com australia@vamfieldservice.com

Over 140 VAM® Specialists available worldwide 24/7 for Rig Site Assistance

Other Connection Data Sheets are available at www.vamservices.com

Issued on: 12 Janv. 2017 by T. DELBOSCO

DATA ARE INFORMATIVE ONLY. BASED ON SI_PD-101836 P&B

VRCC 16-1177 Rev02 for Houston Field Service

Connection Data Sheet

OD	Weight	Wall Th.	Grade	API Drift	Connection
7 5/8 in.	29.70 lb/ft	0.375 in.	P110 EC	6.750 in.	VAM® HTF NR

PIPE PROPERTIES			
Nominal OD	7.625 in.		
Nominal ID	6.875 in.		
Nominal Cross Section Area	8.541 sqin.		
Grade Type	Enhanced API		
Min. Yield Strength	125 ksi		
Max, Yield Strength	140 ksi		
Min. Ultimate Tensile Strength	135 ksi		
Tensile Yield Strength	1 068 kJb		
Internal Yield Pressure	10 760 psi		
Collapse pressure	7 360 psi		

CONNECTION PROPERTIES			
Connection Type	Premium Integral Flush		
Connection OD (nom)	7.701 in.		
Connection ID (nom)	6.782 in.		
Make-Up Loss	4.657 in.		
Critical Cross Section	4.971 sqln.		
Tension Efficiency	58 % of pipe		
Compression Efficiency	72.7 % of pipe		
Compression Efficiency with Sealability	34.8 % of pipe		
Internal Pressure Efficiency	100 % of pipe		
External Pressure Efficiency	100 % of pipe		

CONNECTION PERFO	ORMANCES
Tensile Yield Strength	619 klb
Compression Resistance	778 klb
Compression with Sealability	372 klb
Internal Yield Pressure	10 760 psi
External Pressure Resistance	7 360 psi
Max. Bending	44 °/100f
Max. Bending with Sealability	17 °/100f

TORQUE VALUES	
Min. Make-up torque	9 600 ft.lb
Opti. Make-up torque	11 300 ft.lb
Max. Make-up torque	13 000 ft.lb
Max. Torque with Sealability	58 500 ft.lb
Max. Torsional Value	73 000 ft.lb

VAM® HTF™ (High Torque Flush) is a flush OD integral connection providing maximum clearance along with torque strength for challenging applications such as extended reach and slim hole wells, drilling liner / casing, liner rotation to acheive better cementation in highly deviated and critical High Pressure / High Temperature wells.

Looking ahea on the outcoming testing industry standards, VAM® decided to create an upgraded design and launch on the market the VAM® HTF-NR as the new standard version of VAM® extreme high torque flush connection. The VAM® HTF-NR has extensive tests as per API RP 5C5:2015 CAL II which include the gas sealability having load points with bending, internal pressure and high temperature at 135°C.

Do you need help on this product? - Remember no one knows VAM® like VAM®

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