Form 3160-5 (June 2015) DE B	OM Expire	FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018 5. Lease Serial No.				
SUNDRY Do not use th	NIMANIMOG1E	0				
abandoned we	is form for proposals to dril II. Use form 3160-3 (APD) fo	or such proposals.	6. If Indian, Allot	tee or Tribe Name		
SUBMIT IN	TRIPLICATE - Other instruc	tions on page 2	2019 7. If Unit or CA/4	Agreement, Name and/or No.		
1. Type of Well	NOTICES AND REPORTS is form for proposals to dril II. Use form 3160-3 (APD) for TRIPLICATE - Other instruct ner	الال	Vell Name and BRAD DYER	No. FEDERAL 201H		
2. Name of Operator MATADOR PRODUCTION CO		9. API Well No. 30-025-45193-00-X1				
3a. Address 5400 LBJ FREEWAY SUITE DALLAS, TX 75240	) 10. Field and Poo	10. Field and Pool or Exploratory Area WILDCAT;WOLFCAMP				
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description)		11. County or Par	ish, State		
Sec 35 T22S R32E SWSW 33 32.341854 N Lat, 103.651268			LEA COUNT	ΓΥ, NM		
12. CHECK THE AI	PPROPRIATE BOX(ES) TO	INDICATE NATURE C	OF NOTICE, REPORT, OR (	OTHER DATA		
TYPE OF SUBMISSION	· · · · · · · · · · · · · · · · · · ·	ΤΥΡΕΟ	FACTION	<u> </u>		
S 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			
	Convert to Injection	Plug Back	Water Disposal			
BLM Bond No. NMB0001079 Surety Bond No. RLB0015172						
Matador requests the following	g changes be made to its' Bra	d Dyer Federal 201H we	" UCD HOD	DS 🎽 👘		
Adjusted surface casing depth on recent offset wells.	n from 1000 ? to 950? due to i	new information on the R	ustler top based			
Adjusted Intermediate I casing salt from recent offset wells.	g depth from 5600? to 5500?	due to new information of	n the base of the			
Adjusted Intermediate II casin	g from 7 5/8? to x 7? to 7 5/8	? longstring and adjusted	estimated			
14. I hereby certify that the foregoing is	true and correct.					
	Electronic Submission #4614 For MATADOR PROI nmitted to AFMSS for processi	09 verified by the BLM We DUCTION COMPANY, sent	Il Information System			
Con Name(Printed/Typed) BLAKE H			on 04/18/2019 (19PP1619SE) NG ENGINEER			
Signature (Electronic Submission) Date 04/15/2019						
	THIS SPACE FOR	FEDERAL OR STATE	OFFICE USE			
Approved By NDUNGU KAMAU				Date 06/16/2019		
Conditions of approval, if any, are attache certify that the applicant holds legal or equ which would entitle the applicant to condu	uitable title to those rights in the sub	warrant or ject lease Office Hobbs				
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent				nt or agency of the United		
(Instructions on page 2) ** BLM REV	ISED ** BLM REVISED **	BLM REVISED ** BLI	M REVISED ** BLM REVI	SED **		
				+		

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5

#### Additional data for EC transaction #461409 that would not fit on the form

#### 32. Additional remarks, continued

setting depths.

Adjusted production hole size from 6 1/8? to 6 3/4? and the bottom production casing size from 4 1/2? 13.5# P-110/TXP to 5 1/2 ? 20# P-110 Eagle SFH. Spec sheet attached for 5 1/2? 20# Eagle SFH.

Adjusted cement volumes for all strings accordingly.

Centralizers variance request for both 7-5/8? and 5.5? production string.

All previous COAs will be followed.

Please see the attached C102 changing The Brad Dyer Federal 201H from a Gas well in a 320 acre spacing unit in the WC-025 S223235M; Wolfcamp (Gas) Pool, Pool Code 98297 to an Oil well in a 160 acre spacing unit in the WC-025-G-08 S223227D; Upper Wolfcamp Pool, Pool Code 98286.

#### Revisions to Operator-Submitted EC Data for Sundry Notice #461409

	Operator Submitted	BLM Revised (A
Sundry Type:	CSG-ALTER NOI	CSG-ALTER NOI
Lease:	NMNM86150	NMNM86150
Agreement:		
Operator:	MATADOR PRODUCTION COMPANY 5400 LBJ FWY SUITE 1500 DALLAS, TX 75240 Ph: 972-371-5200	MATADOR PRODU 5400 LBJ FREEWA DALLAS, TX 75240 Ph: 972.371.5200
Admin Contact:	CADE LABOLT ASSOCIATE LANDMAN E-Mail: cade.labolt@matadorresources.com Cell: 330-607-9741	CADE LABOLT ASSOCIATE LANDI E-Mail: cade.labolt@
	Ph: 972-629-2158	Ph: 972-629-2158
Tech Contact:	BLAKE HERMES DRILLING ENGINEER E-Mail: BHermes@matadorresources.com Cell: 713-876-8558 Ph: 972-371-5485	BLAKE HERMES DRILLING ENGINE E-Mail: BHermes@i Cell: 713-876-8558 Ph: 972-371-5485
Location: State: County:	NM LEA	NM LEA
Field/Pool:	WILDCAT/WOLFCAMP	WILDCAT;WOLFCA
Well/Facility:	BRAD DYER FEDERAL 201H Sec 35 T22S R32E Mer NMP NWNW 330FSL 839FWL	BRAD DYER FEDE Sec 35 T22S R32E 32.341854 N Lat, 10

(AFMSS)

OUCTION COMPANY AY SUITE 1500 40

DMAN t@matadorresources.com

EER Dmatadorresources.com

CAMP

ERAL 201H E SWSW 330FSL 839FWL 103.651268 W Lon

Name	Hole Size	Casing Size	Wt/Grade	Thread Collar	Setting Depth	<b>Top Cement</b>	
Surface	17-1/2"	13-3/8" (new)	54.5# J-55	BTC	1215	Surface	
Intermediate	12-1/4"	9-5/8" (new)	40# J-55	BTC	4990	Surface	
	8-3/4"	7-5/8" (new)	29.7# P-110	BTC	4690	4690	
Intermediate 2	8-3/4	7-5/8" (new)	29.7# P110	HTF-NR	12402	4090	
Droduction	6-3/4"	5-1/2" (new)	20# P-110	BTC	12052	12102	
Production		5-1/2" (new)	20# P-110	Eagle SFH	16919	12102	

\*\*\*5-1/2" SF will be Eagle SFH or like connection

#### Issued on: 25 Jan. 2019

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# USA

# Connection Data Sheet

Connection

VAM® EDGE SF

0D 5 1/2 in.	Weight 20.00 lb/ft	Wali Th. <b>0.361 in.</b>			
	PIPE PROPERTIE	S			
Nominal OD		5.500 in.			
Nominal ID		4.778 in.			
Nominal Cross Sec	tion Area	5.828 sqin.			
Grade Type	Exter	Extended Collapse			
Minimum wall		87.5 %RBW			
Min. Yield Strength	I	125 ksi			
Max. Yield Strength	1 .	140 ksi			
Min. Ultimate Tens	ile Strength	135 ksi			
Tensile Yield Stren	gth	729 klb			
Internal Yield Press	sure	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					

**API Drift** 

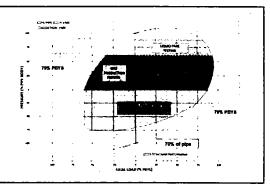
4.653 in.

CONNECTION PERFORM	ANCES
Tensile Yield Strength	576 klb
Compression Resistance, Sealability	576 kib
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 VALUES				
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<sup>™</sup> 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<sup>™</sup>'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<sup>®</sup> like VAM

. . . . . .

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Grade

P110EC

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

				1.1.1.1.1.1.1		· ·: · .			·. ·
District I	40	State of New Mexico					FORM C-10		
1625 N French Dr., Hobbs, NM 882 Phone: (575) 393-6161 Fax: (575) 3 District II		Energy, Minerals & Natural Resources				Revised August 1, 201			
BILS First SI, Artesia, NM 88210		Department			Submit	one copy to appropria			
Phone: (575) 748-1283 Fax: (575) 7 District III 1000 Rio Brazos Road, Aztec, NM 8		с. С	OIL CONSERVATION DIVISION		District Offic				
Phone: (505) 334-6178 Fax: (505) 3 District IV 1220 S St Francis Dr., Santa Fe, NM Phone: (505) 476-3460 Fax: (505) 4	A 87505		1220 South St. Francis Dr. Santa Fe, NM 87505				AMENDED REPOR		
<sup>1</sup> API Numbe			ATION A	ND ACRE	AGE DEDI	CATION	PLAT	·	· · · · · · · · · · · · · · · · · · ·
30-025-4519	•	982			WC	-025-G-0		D; Uppe	er Wolfcamp
Property Code				<sup>5</sup> Property Nam	e	· ·			Well Number
· .			BRAD	DYER F	EDERAL	•			#201H
OGRID No.				<sup>6</sup> Operator Nam	e	· · · · · · · · · · · · · · · · · · ·			"Elevation
228937		MA			ON COMP	ANY	· · · · · · · · · · · · · · · · · · ·		3734'
· · · ·			10	Surface Loca	tion			:	
UL or lot no. Section	Township	Range	Lot Idn	Feet from the	North/South lin	ne Feet	from the	East/West	line County

SOUTH

NORTH

North/South line

839'

330'

Feet from t

WEST

WEST

East/West lin

LEA

LEA

Соилт

330'

**60'** 

Lot Ida

Order No.

<sup>11</sup>Bottom Hole Location If Different From Surface

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.

Feet from the

35

35

Section

Joint or Infill

Towaship

22-S

M

D

<sup>2</sup>Dedicated Acres

160

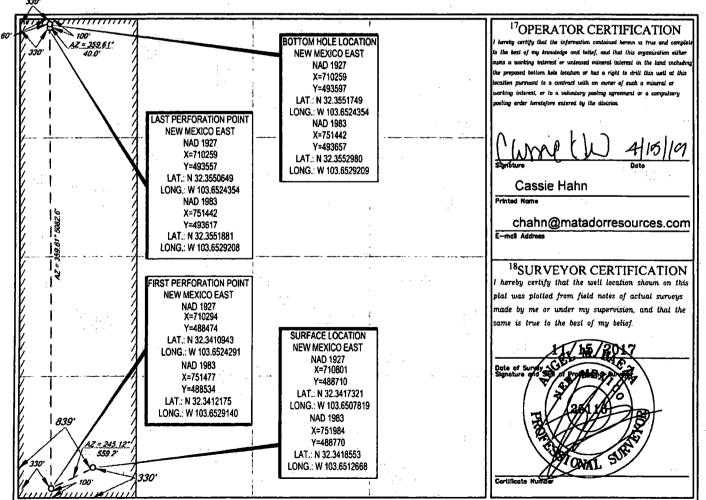
UL or lat no.

22-S 32-E

Range

32-E

Consolidation Code



SISURVEVINATADOR RESOURCESUBRAD OVER 35-225-32EFINAL PRODUCTSU O BRAD OVER FEDERAL 201H C-102 REVS.DWG 4/15/2019 9.24.21 AN Inchardson

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	Matador Production Company
LEASE NO.:	NMNM086150
WELL NAME & NO.:	Brad Dyer Federal-201H
SURFACE HOLE FOOTAGE:	330'/S & 839'/W
<b>BOTTOM HOLE FOOTAGE</b>	60'/N & 330'/W
LOCATION:	Section 35, T.22 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

## COA

H2S	C Yes	r No	
Potash	• None	C Secretary	⊂ R-111-P
Cave/Karst Potential	C Low		High  Hi
Variance	None	• Flex Hose	C Other
Wellhead	Conventional	C Multibowl	Both
Other	□  □  4 String Area	Capitan Reef	□ WIPP
Other	Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	ГСОМ	□ Unit

All pervious COAs still apply.

#### A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

#### **B.** CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 1215 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - 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 will be a minimum of <u>8</u> <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- 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.

# Intermediate casing must be kept 1/3 fluid filled to meet BLM minimum collapse requirement.

- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above.
- 3. The minimum required fill of cement behind the 7-5/8 inch  $2^{nd}$  intermediate casing is:
  - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - Cement should tie-back **200 feet** into the previous casing. Operator shall provide method of verification.

C

### **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 2<sup>nd</sup> 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> 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 <u>24</u> hours. WOC time will be recorded in the driller's log.
- <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. 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.

Page 4 of 7

- 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.
- 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.

#### NMK5152019