	(June 2015) DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT SUNDRY NOTICES AND REPORTS ON WELLS 020 H1010			NO. 1004-0137 January 31, 2018	
SUNDRY Do not use th abandoned we	NOTICES AND REPO nis form for proposals to ell. Use form 3160-3 (API	drill or to re-enter an D) for such prop	FIELD STIMULE	s or Tribe Name	
	TRIPLICATE - Other inst		7 If Unit or CA/Am	reement, Name and/or N	
1. Type of Well	, , , , , , , , , , , , , , , , ,		8. Well Name and N	0. 5 FEDERAL COM 608	
2. Name of Operator		MAYTE X REYES	9. API Weli No.		
COG OPERATING LLC	E-Mail: mreyes1@		30-025-44705		
3a. Address 2208 WEST MAIN STREET ARTESIA, NM 88210		3b. Phone No. (include area code) Ph: 575-748-6945	10. Field and Pool o WILDCAT; WO	OLFCAMP	
4. Location of Well (Footage, Sec., 2		)	-	11. County or Parish, State	
Sec 25 T25S R33E SESW 28	30FSL 1462FWL		LEA COUNTY	′, NM	
12. CHECK THE A	PPROPRIATE BOX(ES)	TO INDICATE NATURE O	F NOTICE, REPORT, OR OT	THER DATA	
TYPE OF SUBMISSION		TYPE OF	ACTION		
Notice of Intent	C Acidize	Deepen	Production (Start/Resume)	UWater Shut-O	
-	Alter Casing	Hydraulic Fracturing	Reclamation	Well Integrity	
Subsequent Report	Casing Repair	New Construction	Recomplete	🖸 Other	
Final Abandonment Notice	Change Plans	Plug and Abandon Plug Back	Temporarily Abandon Water Disposal		
approved APD.		the following changes to the o	original		
approved APD. Operator will need to sundry to Drill 14.75? surface hole inste surface. Operator will run a DVT/ECP cement job 1st stage: Lead with 700 sx I	fully requests approval for the following for Dominato ead of 13.5?. Operator will @ 5,100? in the 7.625? Ir Neocem ( 11.0 # / 2.81 yd)		ate to SEE ATTAC	CHED FOR OF APPROVA	
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### Additional data for EC transaction #426044 that would not fit on the form

#### 32. Additional remarks, continued

Operator will need variance for flex hose for Nabors 894. Also need to apply for 5M Annular variance. Attached procedures for the variance.

- Flex hose & Sm Annulan was approved with the original APD



#### 1. Component and Preventer Compatibility Table

The table below covers drilling and casing of the 10M MASP portion of the well and outlines the tubulars and the compatible preventers in use. Combined with the mud program, the below documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

Component	OD	Preventer	RWP
Drill pipe	4.5"		
HWDP	4.5"		
Jars	4.875" - 5"	Upper 4.5-7" VBR	1014
Drill collars and MWD tools	4.75" - 5"	Lower 4.5-7" VBR	10M
Mud Motor	4.75"-5.875"		
Production casing	5.5" & 5"		
ALL	0-13.625"	Annular	5M
Open-hole	-	Blind Rams	10M

VBR = Variable Bore Ram with compatible range listed in chart.

#### 2. Well Control and Shut-In Procedures

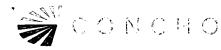
Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are minimum tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. The maximum pressure at which well control is transferred from the annular to another compatible ram is 2500 psi.

#### Drilling:

- 1. Sound the alarm (alert rig crew)
- 2. Space out the drill string
- 3. Shut down pumps and stop the rotary
- 4. Shut-in the well with the annular with HCR and choke in closed position
- 5. Confirm the well is shut-in
- 6. Notify contractor and company representatives
- 7. Read and record the following data
  - Time of shut-in
  - SIDPP and SICP
  - Pit gain
- 8. If pressure has increased to or is anticipated to increase to 2500 psi, confirm spacing and close the upper pipe rams.
- 9. Prepare for well kill operation.

#### **Tripping:**

- 1. Sound alarm (alert rig crew)
- 2. Stab full opening safety valve and close the valve
- 3. Space out the drill string
- 4. Shut-in the well with the annular with HCR and choke in closed position
- 5. Confirm shut-in
- 6. Notify contractor and company representatives
- 7. Read and record the following data:



- Time of shut-in
- SIDPP and SICP
- Pit gain
- 8. If pressure has increased to or is anticipated to increase to 2500 psi, confirm spacing and close the upper pipe rams.
- 9. Prepare for well kill operation.

#### Running Casing

- 1. Sound alarm (alert rig crew)
- 2. Stab crossover and valve and close the valve
- 3. Shut-in the well with annular with HCR and choke in closed position
- 4. Confirm shut-in
- 5. Notify contractor and company representatives
- 6. Read and record the following data
  - Time of shut-in
  - SIDPP and SICP
  - Pit gain
- 7. If pressure has increased to or is anticipated to increase to 2500 psi, confirm spacing and close the upper pipe rams.
- 8. Prepare for well kill operation

#### No Pipe in Hole (Open Hole)

- 1. At any point when pipe or BHA are not in BOP stack, well will be shut in with blind rams, HCR will be open and choke will be closed. If pressure increase is observed:
- 2. Sound alarm (alert crew)
- 3. Confirm shut-in
- 4. Notify contractor and company representatives
- 5. Read and record the following data
  - Time of shut-in
  - Time of pressure increase
  - SICP
- 6. Prepare for well kill operation

#### Pulling BHA through BOP Stack

- 1. Prior to pulling last joint/stand of drillpipe through the stack, perform a flow check. If well is flowing:
  - a. Sound alarm (alert crew)
  - b. Stab full opening safety valve and close the valve
  - c. Space out drill string with tooljoint just beneath the upper pipe ram.
  - d. Shut-in the well with upper pipe ram with HCR and choke in closed position
  - e. Confirm shut-in
  - f. Notify contractor and company representatives
  - g. Read and record the following data
    - Time of shut-in
    - SIDPP and SICP
    - Pit gain
  - h. Prepare for well kill operation.



- 2. With BHA in the stack:
  - a. If possible to pick up high enough, pull BHA clear of the stack
    - i. Follow "Open Hole" procedure above
  - b. If impossible to pick up high enough to pull BHA clear of the stack:
    - i. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
    - ii. Space out drill string with tooljoint just beneath the upper pipe ram.
    - iii. Shut-in the well with upper pipe ram with HCR and choke in closed position
    - iv. Confirm shut-in
    - v. Notify contractor and company representatives
    - vi. Read and record the following:
      - Time of shut-in
      - SIDPP and SICP
      - Pit gain

vii. Prepare for well kill operation.

#### 3. Well Control Drills

Well control drills are specific to the rig equipment, personnel and operation at the time a kick occurs. Each crew will execute one drill weekly relevant to ongoing operations, but will make a reasonable attempt to vary the type of drills. The drills will be recorded in the daily drilling log. Below are minimum tasks for respective well control drills.

#### Drilling/Pit:

Action	Responsible Party	
Initiate Drill <ul> <li>Lift Flow Sensor or Pit Float to indicate a kick</li> <li>Immediately record start time</li> </ul>	Company Representative / Rig Manager	
<ul> <li>Recognition</li> <li>Driller and/or Crew recognizes indicator</li> <li>Driller stop drilling, pick up off bottom and spaces out drill string, stop pumps and rotary</li> <li>Conduct flow check</li> </ul>	Driller	
Initiate Action • Sound alarm, notify rig crew that the well is flowing	Company Representative / Rig Manager	
<ul> <li>Reaction</li> <li>Driller moves BOP remote and stands by</li> <li>Crew is at their assigned stations</li> <li>Time is stopped</li> <li>Record time and drill type in the Drilling Report</li> </ul>	Driller / Crew	



## Tripping Pit Drills (either in the hole or out of the hole)

Action	Responsible Party	
<ul><li>Initiate Drill</li><li>Lift Flow Sensor or Pit Float to indicate a kick</li></ul>	Company Representative / Rig Manager	
Immediately record start time	· · · · · · · · · · · · · · · · · · ·	
Recognition <ul> <li>Driller recognizes indicator</li> <li>Suspends tripping operations</li> <li>Conduct Flow Check</li> </ul>	Driller	
<ul><li>Initiate Action</li><li>Sound alarm, notify rig crew that the well is flowing</li></ul>	Company Representative / Rig Manager	
<ul> <li>Reaction</li> <li>Position tool joint above rotary and set slips</li> <li>Stab FOSV and close valve</li> <li>Driller moves to BOP remote and stands by</li> <li>Crew is at their assigned stations</li> <li>Time is stopped</li> <li>Record time and drill type in the Drilling Report</li> </ul>	Driller / Crew	

<u>Choke</u>

Action	Responsible Party
<ul> <li>Have designated choke operator on station at the choke panel</li> <li>Close annular preventer</li> <li>Pressure annulus up 200-300 psi</li> <li>Pump slowly to bump the float and obtain SIDPP</li> <li>At choke operator instruction, slowly bring pumps online to slow pump rate while holding casing pressure constant at the SICP.</li> <li>Allow time for the well to stabilize. Mark and record circulating drillpipe pressure.</li> <li>Measure time lag on drillpipe gauge after choke adjustments.</li> <li>Hold casing pressure constant as pumps are slowed down while choke is closed.</li> <li>Record time and drill type in the Drilling Report</li> </ul>	Company Man / Rig Manager & Rig Crew

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG Operating LLC
LEASE NO.:	NMNM121958
WELL NAME & NO.:	608H-Dominator 25 FED COM
SURFACE HOLE FOOTAGE:	
BOTTOM HOLE FOOTAGE	200'/N & 1250'/W
LOCATION:	Section 25,R33E, T.25S,NMPM
COUNTY:	LEA County, New Mexico.

Potash		C Secretary	C R-111-P
Cave/Karst Potential	C Low	Medium	High
Variance		Flex Hose	C Other
Wellhead	Conventional	<b>^</b> Multibowl	· · · · · · · · · · · · · · · · · · ·
Other	□4 String Area	□Capitan Reef	□WIPP

All previous COAs still apply except for the following:

#### A. CASING

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

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

Operator has proposed DV tool at depth of 5100', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

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

#### MHH 07262018

## GENERAL REQUIREMENTS

### 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. <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 hours</u>. 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.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.