Form 3160-5 (August 2007)

BHT = 155* F

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

NM OIL CONSERVATION
ARTESIA DISTRICT

FORM APPROVED OMB NO. 1004-0135

MINDOD

CONDITIONS OF APPROVAL

OCT 1 4 2014 Lease Serial No.

Expires: July 31, 2010

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals RECEIVED SUBMIT IN TRIPLICATE - Other instructions on reverse side.				6. If Indian, Allottee or Tribe Name 7. If Unit or CA/Agreement, Name and/or No.	
2. Name of Operator Contact: MAYTE X REYES COG PRODUCTION LLC E-Mail: mreyes1@concho.com				9. API Well No. 30-015-42609-00-X1	
3a. Address 3b. Phone No. (include area code) 2208 W MAIN STREET Ph: 575-748-6945 ARTESIA, NM 88210 Ph: 575-748-6945				10. Field and Pool, or Exploratory RED BLUFF	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)				11. County or Parish, and State	
Sec 12 T26S R28E SESE 300FSL 500FEL 32.050594 N Lat, 104.033264 W Lon				EDDY COUNTY, NM	
12. CHECK APP	ROPRIATE BOX(ES) TO 1	INDICATE NATURE OF	NOTICE, R	EPORT, OR OTHI	ER DATA
TYPE OF SUBMISSION	TYPE OF ACTION				
Notice of Intent	Intent Acidize D		☐ Production (Start/Resume) ☐ Reclamation		☐ Water Shut-Off ☐ Well Integrity
☐ Subsequent Report	Casing Repair	☐ Fracture Treat ☐ New Construction	☐ Recomplete ☑ Other		
☐ Final Abandonment Notice	Change Plans	☐ Plug and Abandon			Change to Original A
-	Convert to Injection	☐ Plug Back			PD
13. Describe Proposed or Completed Op If the proposal is to deepen direction Attach the Bond under which the wo following completion of the involved testing has been completed. Final A determined that the site is ready for f COG Production LLC, respect approved APD. Operator will drill out from intel PHTD= 10,000?	ally or recomplete horizontally, given will be performed or provide the operations. If the operation results bandonment Notices shall be filed final inspection.) If ully requests approval for the operation is a specific approval.	ve subsurface locations and meas e Bond No. on file with BLM/BI. is in a multiple completion or reconly after all requirements, include the following changes to the	ured and true ve A. Required su completion in a ding reclamatio	ertical depths of all perti bsequent reports shall b new interval, a Form 31	inent markers and zones. e filed within 30 days 60-4 shall be filed once

14. I hereby certify that the foregoing is true and correct Electronic Submission #260563 verified by the BLM Well Information System
For COG PRODUCTION LLC, sent to the Carlsbad
Committed to AFMSS for processing by JENNIFER MASON on 10/08/2014 (15JAM0013SE) Title Name(Printed/Typed) MAYTE X REYES REGULATORY ANALYST (Electronic Submission) Signature Date 09/04/2014 THIS SPACE FOR FEDERAL OR STATE OFFICE USE Approved By Title Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease MAN GEMENT CARL D FIELD OFFICE which would entitle the applicant to conduct operations thereon. Office

BHP = 4,784 psi
Operator will NU and test 5M BOP/BOPE system before drilling out of 9-5/8? csg shoe
SEE ATTACHED FOR

Operator Will No and test SW BOP/BOPE system before drilling out of 9-3/6 Operator will plug back with 3 stacked plugs of the following: Plug #1: 1,100? F/ 8,900? ? 10,000? (475 sx of 17.2# 0.98 cf/sk Class H) Plug #2: 1,100? F/ 7,800? ? 7,800? (430 sx of 17.2# 0.98 cf/sk Class H) Plug #3: 1,000? F/ 6,800? ? 7,800? (430 sx of 17.2# 0.98 cf/sk Class H)

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

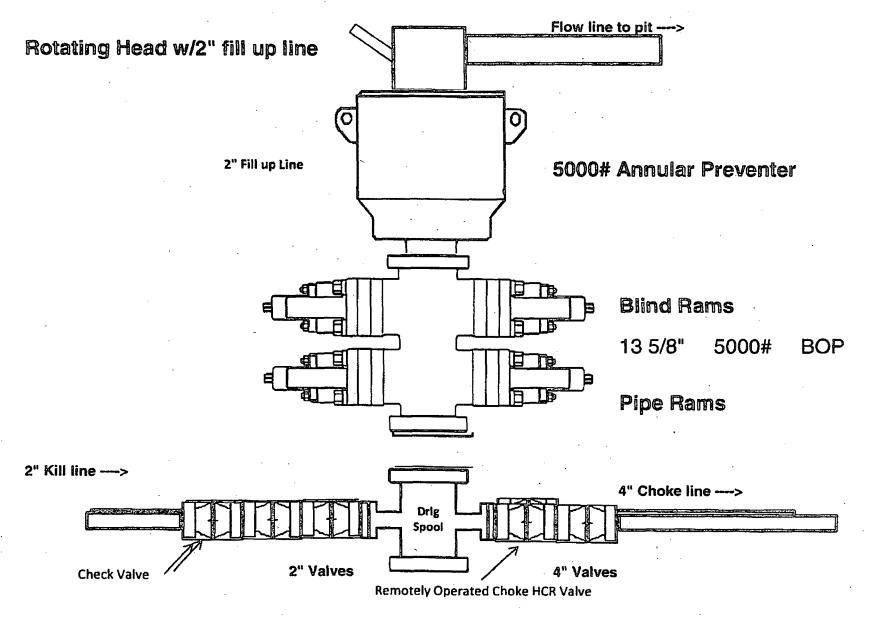
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to nake to any department or agency of the United

Additional data for EC transaction #260563 that would not fit on the form

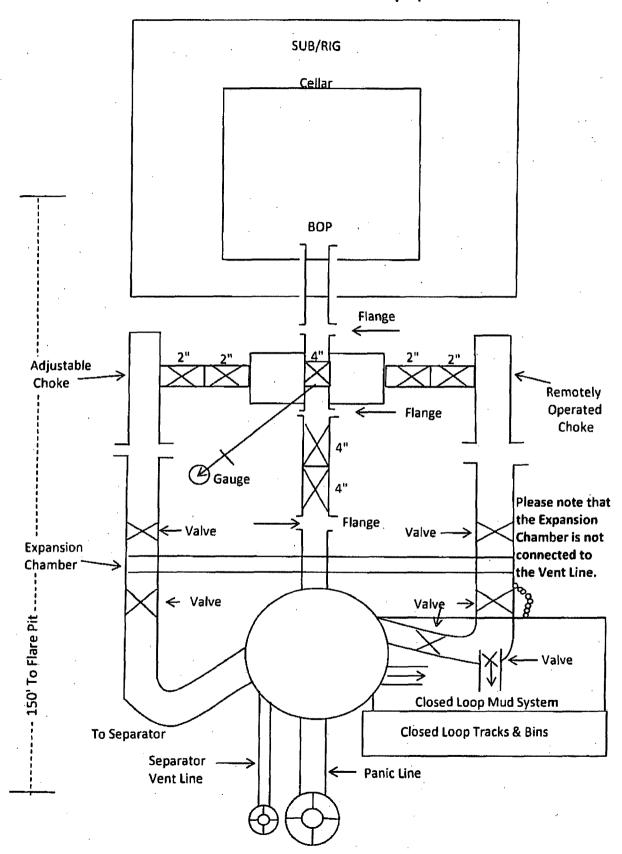
32. Additional remarks, continued

Operator will drill 8-3/4? curve and lateral as originally planned.

5,000 psi BOP Schematic



5M Choke Manifold Equipment



PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: | COG Production, LLC.

LEASE NO.: NMNM-12559

WELL NAME & NO.: Brutus 12 Federal 1H
SURFACE HOLE FOOTAGE: 0300' FSL & 0500' FEL
BOTTOM HOLE FOOTAGE 0330' FNL & 0660' FEL

LOCATION: Section 12, T. 26 S., R 28 E., NMPM

COUNTY: Eddy County, New Mexico

API: | 30-015-42609

The original COAs still stand with the following drilling modifications:

I. DRILLING

A. DRILLING OPERATIONS 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)

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. Operator has stated that they will have monitoring equipment in place prior to drilling out of the surface shoe. If Hydrogen Sulfide is encountered, report measured amounts and formations to the BLM.
- 2. 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. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. 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 is located, this does not include the dog house or stairway area.

4. 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.

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

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. IF OPERATOR DOES NOT HAVE THE WELL SPECIFIC CEMENT DETAILS ONSITE PRIOR TO PUMPING THE CEMENT FOR EACH CASING STRING, THE WOC WILL BE 30 HOURS. See individual casing strings for details regarding lead cement slurry requirements.

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

Medium Cave/Karst Possibility of water flows in the Salado and Castile. Possibility of lost circulation in the Salado and Delaware.

- 1. The 13-3/8 inch surface casing shall be set at approximately 450 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.
 - 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 intermediate casing is:
 - □ Cement to surface. If cement does not circulate see B.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.

Formation below the 9-5/8" 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.

Pilot hole is required to have a plug at the bottom of the hole. When multiple plugs are set, the BLM is to be contacted (575-361-2822) prior to tag of bottom plug, which must be a minimum of 200' in length.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- 4. 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.

C. 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. In the case where the only BOP installed is an annular preventer, it shall be tested to a minimum of 2000 psi (which may require upgrading to 3M or 5M annular).
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.
- 4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 intermediate casing shoe shall be 5000 (5M) psi. 5M 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.
- 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. The tests shall be done by an independent service company utilizing a test plug **not** a **cup or J-packer**.
 - c. 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.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. 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.
 - f. 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.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. 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.

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