

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

Carlsbad Field Office
QC D Hobbs

5. Identification No. NMMN149277
6. Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
COG OPERATING LLC / Contact: MAYTE X REYES
E-Mail: mreyes1@concho.com

3a. Address
ONE CONCHO CENTER 600 W ILLINOIS AVENUE
MIDLAND, TX 79701-4287

3b. Phone No. (include area code)
Ph: 575-748-6945

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 34 T25S R33E NENE 210FNL 1300FEL
32.093685 N Lat, 103.555855 W Lon

7. If Unit or CA/Agreement, Name and/or No.
8. Well Name and No.
COLUMBUS FEDERAL COM 22H /

9. API Well No.
30-025-43693-00-X1

10. Field and Pool or Exploratory Area
WILDCAT;WOLFCAMP

11. County or Parish, State
LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Change to Original A PD
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

COG Operating LLC, respectfully requests approval for the following changes to the original approved APD.

We need to send in the following sundry for the Columbus Federal Com 22H:
Operator will drill 26? hole to 1095? and run 20? 106.5# J55 BTC casing to TD.
Surface Cement: 1400 sx of Class C +4% Gel Lead (23.5 ppg / 1.75 yd) & 350 sx Class C Tail (14.8 ppg / 1.34 yd)
Operator will drill 17-1/2? hole to 4980? and run 13-3/8? 68# HCL80 BTC to TD.
Intermediate 1 cement: 2500 sx of 35:65:6 C Blend Lead (12.7 ppg / 2.00 yd) & 500 sx Class G Tail (14.8 ppg / 1.34 yd)
Operator will drill 12-1/4? hole to 11,700? and run 9-5/8? 47# HCL80 BTC to TD.
Intermediate 2 cement: 1200 sx Tuned Light Blend Lead (10.3 ppg / 3.48 yd) & 400 sx Class H Tail (

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

14. I hereby certify that the foregoing is true and correct.
**Electronic Submission #371779 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Hobbs
Committed to AFMSS for processing by DEBORAH MCKINNEY on 04/06/2017 (17DLM0745SE)**

Name (Printed/Typed) MAYTE X REYES Title REGULATORY ANALYST

Signature (Electronic Submission) Date 03/31/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By MUSTAFA HAQUE Title PETROLEUM ENGINEER Date 04/10/2017

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 which would entitle the applicant to conduct operations thereon.

Office Hobbs

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 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 ** BLM REVISED ****

Additional data for EC transaction #371779 that would not fit on the form

32. Additional remarks, continued

16.4 ppg / 1.1 yd)
Operator will drill 8-1/2" curve & lateral to 22,397'. Run 5.5" 23# P110 BTC casing to TD and cement to a minimum of 11,000'.



Haque, Mustafa <mhaque@blm.gov>

FW: [External] EC Document Submitted - Columbus Fed Com 22H

Timothy Smith <TSmith@concho.com>

Mon, Apr 10, 2017 at 11:54 AM

To: "Haque, Mustafa" <mhaque@blm.gov>, Mayte Reyes <MReyes1@concho.com>

The planned production cement job right now is as follows for the 5.5" 23# P110 BTC that will be run to 22,349' MD.

- Lead: 1300 sx 50:50:10 H Blend (11.9 ppg, 2.5 cf/sk)
- Tail : 2500 sx 50:50:2 H Blend (14.4 ppg, 1.25 cf/sk)

As far as BOP testing also:

- We would have a 20" annular tested to 2M for the 1st Intermediate down to 4,980'.
- Then the 2nd intermediate (12-1/4" Hole) and production (8-1/2" hole) would both be 5M like the original APD.

Thanks

Tim Smith

432.741.5346

From: Haque, Mustafa [mailto:mhaque@blm.gov]

Sent: Monday, April 10, 2017 11:28 AM

To: Mayte Reyes

Cc: Timothy Smith

Subject: Re: FW: [External] EC Document Submitted - Columbus Fed Com 22H

[Quoted text hidden]

Columbus Federal Com 22H - WBD - 3.30.17.pdf
31K

**PECOS DISTRICT
DRILLING OPERATIONS
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	COG Operating LLC
LEASE NO.:	NM119277
WELL NAME & NO.:	Columbus Federal Com – 22H
SURFACE HOLE FOOTAGE:	210'/FNL & 1300'/FEL
BOTTOM HOLE FOOTAGE	200'/FSL & 990'/FEL
LOCATION:	Sec. 34, T. 25 S, R. 33 E
COUNTY:	Lea County

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.

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

Possible water flows in the Castile and Salado.

Possible lost circulation in the Rustler, Red Beds, and Delaware.

Abnormal pressure might exist drilling below the third Bone Spring and subsequent formation.

1. The **20** inch surface casing shall be set at approximately **1095** feet 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.

The first intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **13-3/8** inch first intermediate casing is:

Cement to surface. If cement does not circulate see A.1.a, c-d above.

Formation below the 13-3/8" 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.

3. The minimum required fill of cement behind the **9-5/8** inch second intermediate casing is:

Cement should tie-back at least 200 feet into previous casing string. **Excess calculates to 22% - Additional cement might be required.**

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.

4. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Cement should tie-back at least 200 feet into previous casing string. Operator should

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.

MHH 04102017