

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010**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  
OCD Artesia**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. COPPERHEAD 31 FEDERAL COM 3H
2. Name of Operator COG PRODUCTION LLC Contact: MAYTE X REYES E-Mail: mreyes1@concho.com		9. API Well No. 30-015-43924
3a. Address 2208 W MAIN STREET ARTESIA, NM 88210	3b. Phone No. (include area code) Ph: 575.748.6945	10. Field and Pool, or Exploratory WILDCAT WOLFCAMP
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 30 T26S R29E NENE 349FNL 773FEL 32.019787 N Lat, 104.017212 W Lon		11. County or Parish, and State EDDY COUNTY, NM

**12. CHECK 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"/> Fracture Treat	<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
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

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 recompleat 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 shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall 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 Production LLC, respectfully requests approval for the following changes to the original approved APD.

Drilling changes attached.

NM OIL CONSERVATION  
ARTESIA DISTRICT  
NOV 22 2016  
RECEIVED

14. I hereby certify that the foregoing is true and correct. Electronic Submission #357620 verified by the BLM Well Information System For COG PRODUCTION LLC, sent to the Carlsbad Committed to AFMSS for processing by DEBORAH MCKINNEY on 11/14/2016 (17DLM0261SE)	
Name (Printed/Typed) MAYTE X REYES	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 11/10/2016

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By <b>RETURNED</b>	MUSTAFA HAQUE Title PETROLEUM ENGINEER	Date 11/16/2016
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 Carlsbad		

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.

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

**COPPERHEAD 31 FEDERAL COM 3H**  
**API# 30-015-43924**

**Casing and Cement**

String	Hole Size	Csg OD	PPF	Depth	Sx Cement	TOC
Surface	18.125"	16"	75#	414'	400	0'
Intermediate 1	13.5"	10-3/4"	45.5#	2801'	750	0'
Intermediate 2	9-7/8"	7-5/8"	29.7#	10,000'	1300	0'
Production	6-3/4"	5-1/2"x5" 20# x 18#		17,696'	1050	9000'

**Well Plan**

Operator has already drilled 18.125" hole to 414' w/ fresh water spud mud. Run casing to TD and cemented with 400 Class C + 2% CaCl to surface. Circulated 124 sx to surface.

Operator has already drilled 13.5" hole to 2,801' w/ brine water. Run casing to TD and cemented with 1000 sx Class C + 4% Gel lead and 250 sx Class C tail. Circulated 275 sx to surface.

Operator will drill 9-7/8" hole to 10,000' with cut brine. Run casing to TD and cement to surface in one stage with 1000 sx 50:50:10 H Blend ( 2.5 yd / 11.9#) lead and 275 sx Class H ( 163.4# / 1.1 yd).

Operator will drill 6-3/4" vertical hole, curve & lateral to 17,696' with cut brine and OBM mud. Run 5-1/2" 23# by 5" 18# P110 tapered casing to TD and cement as original APD.