

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTNM OIL CONSERVATION  
ARTESIA DISTRICT  
OCD Artesia  
FEB 17 2016  
RECEIVEDFORM 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.***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. ADMIRAL FEDERAL COM 2H
2. Name of Operator COG OPERATING LLC Contact: MAYTE X REYES E-Mail: mreyes1@concho.com		9. API Well No. 30-015-42820-00-X1
3a. Address 600 W ILLINOIS AVENUE MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 575.748.6945	10. Field and Pool, or Exploratory WILLOW LAKE
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 28 T25S R29E SWSE 190FSL 1980FEL 32.093948 N Lat, 103.986586 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 recompletion 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 Operating LLC, respectfully requests approval for the following drilling changes to the original approved APD.

The operator wants to make the following changes on the 9-5/8" cement job:

? The operator will pump a 2 stage cement job on the 9-5/8" intermediate casing to ensure circulation to surface.

? The operator will place the DVT/ECP at 3,020.

? 1st Stage Cement

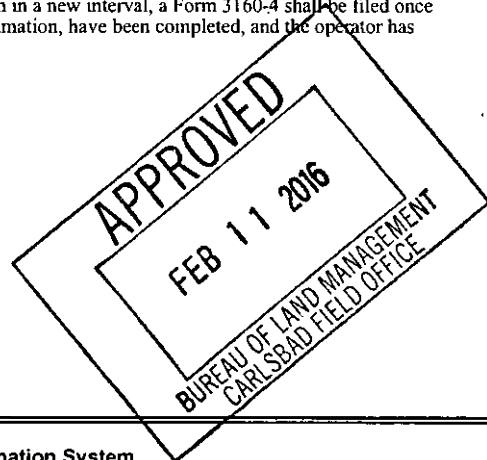
o Lead: 1100 sx 50:50:10H Blend ( 11.9 ppg - 2.5cf/sk)

o Tail: 400 sx Class H ( 16.4 ppg - 1.1 cu/ft)

? 2nd Stage Cement

o Lead: 950 sx Class C + 4% Gel ( 13.5 ppg - 1.75 cu/ft)

Accepted for record

NMSD  
JRS

14. I hereby certify that the foregoing is true and correct. <b>Electronic Submission #331328 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad Committed to AFMSS for processing by ED FERNANDEZ on 02/11/2016 (16EF0010SE)</b>	
Name (Printed/Typed) MAYTE X REYES	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 02/11/2016

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

Approved By EDWARD FERNANDEZ	Title PETROLEUM ENGINEER	Date 02/11/2016
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 \*\*****SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

**Additional data for EC transaction #331328 that would not fit on the form**

**32. Additional remarks, continued**

o Tail: 200 sx Class C ( 14.8 ppg - 1.34 cu/ft)

? Due to this being cave/ karst the lead was specified. This presents an issue with the 1st stage lead due to the time it will take to get to 500 psi. The 11.9# 50:50:10 H cement is the best cement for the 1st stage lead being pumped at 9500? to ensure a quality cement for the life of the well and being able to circulate off the stage tool. This 1st stage lead will only be covering the BSS and DLWR. It will not be over the Cave / Karst area, the 2nd stage cmt will be covering the cave / karst. The 2nd stage cement will develop 500 psi comp strengths fairly quickly. I am hoping the 1st stage lead will not be specified for 500 psi before testing in this situation, or we will have to tweak the cement that will not suit the situation as good as what is planned above.

see  
COA

**Admiral Federal Com 2H  
API 30-015-42820  
COG Production LLC  
Conditions of Approval**

**Original COA still applies including BOP/BOPE testing, except for the replacement of the cement fill requirement behind the 9-5/8 inch intermediate casing that takes into account the proposed DVT/ ECP. See the following:**

**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. **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. Have well specific cement details onsite prior to pumping the cement for each casing string.

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

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

**DV tool option: Operator is to submit sundry if DV tool depth varies by more than 100 feet from approved depth.**

a. First stage to DV tool:

- ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.

b. Second stage above DV tool:

- ☒ 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.**

**KGR/EGF 02112016**