

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-
abandoned well. Use form 3160-3 (APD) for such proposals.*

Carlsbad Field Office
OCD Artesia

5. Lease Serial No. NMNM38636	
6. If Indian, Allottee or Tribe Name	
7. If Unit or CA/Agreement, Name and/or No.	
8. Well Name and No. SIDEWINDER FEDERAL COM 4H	
9. API Well No. 30-015-44192	
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	10. Field and Pool or Exploratory Area PURPLE SAGE; WOLFCAMP
2. Name of Operator COG OPERATING LLC Contact: MAYTE X REYES E-Mail: mreyes1@concho.com	11. County or Parish, State EDDY COUNTY, NM
3a. Address 2208 WEST MAIN STREET ARTESIA, NM 88210	3b. Phone No. (include area code) Ph: 575-748-6945
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 32 T26S R29E NWNW 200FNL 660FWL -BHL SWL: Lot 4, 1970' FNL: 950 FWC - Lot 32. 0202951; Lot 104. 0130669	

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 APD
	<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 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 must 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 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.

Operator will drill 20' surface to 325' with 8.4 ? 8.6# fresh water spud mud. Run 16' 75# J55 BTC to TD and cement with 500 sx Class + 2%CC (14.8 ppg, 1.34 yd) to surface.
Operator will drill 13.5' hole to 2,725' w/ 10 ? 10.2 ppg brine water. Run 10-3/4' 45.5# N80 BTC casing to TD and cement with 850 sx Class C + 4% Gel lead (13.5 ppg, 1.75 yd) and 250 sx Class C tail (14.8 ppg, 1.34 yd) to surface.
Operator will drill 9-7/8' to 9,750' w/ 8.7 - 9.4 ppg cut brine fluid, which is 250' into the top of Wolfcamp. Run 7-5/8' 29.7 HCP110 BTC to TD and cement with 700 sx 10-3/4' 10.3 ppg, 3.48 yd) and 275 sx Class H tail (16.4 ppg, 1.1 yd) to surface
Operator will drill 6-3/4' hole to TD and cement the 5.5' x 5' tapered production string as

NM OIL CONSERVATION
ARTESIA DISTRICT
JUN 06 2017

SEE ATTACHED FOR RECEIVED
CONDITIONS OF APPROVAL

Accepted for record - NMOCD
PC 6-6-17

14. I hereby certify that the foregoing is true and correct. Electronic Submission #377631 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad Committed to AFMSS for processing by DEBORAH MCKINNEY on 06/01/2017 ()	
Name (Printed/Typed) MAYTE X REYES	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 06/07/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>Mustafa Hogue</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>6/11/2017</u>
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 <u>CFO</u>		

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)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Additional data for EC transaction #377631 that would not fit on the form

32. Additional remarks, continued

original APD.

**PECOS DISTRICT
DRILLING OPERATIONS
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	COG Operating LLC
LEASE NO.:	NM38636
WELL NAME & NO.:	Sidewinder Fed Com – 4H
SURFACE HOLE FOOTAGE:	1970'/N & 950'/W
BOTTOM HOLE FOOTAGE	200'/N & 660'/W, sec. 29
LOCATION:	Sec. 32, T. 26 S, R. 29 E
COUNTY:	Eddy 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.

Medium Cave Karst

Possibility of water flows in the Castile and Salado

Possibility of lost circulation in the Salado and Delaware

Abnormal pressure may be encountered within the 3rd Bone Spring Sandstone and Wolfcamp formations.

1. The **16** inch surface casing shall be set at approximately **325** 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.
2. The minimum required fill of cement behind the **10-3/4** inch first intermediate casing, which shall be set at approximately **2650** feet, is:

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

If cement does not circulate to surface on the first intermediate casing, the cement on the second intermediate casing must come to surface.

3. The minimum required fill of cement behind the **7-5/8** inch second intermediate casing is:

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

4. The minimum required fill of cement behind the **5-1/2 X 5.0** inch production casing is:

Cement should tie-back at least **200** feet into the previous string. Operator shall provide method of verification.

5. 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.