

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.

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		5. Lease Serial No NMNM103597
2. Name of Operator COG PRODUCTION LLC		6. If Indian, Allottee or Tribe Name
3a. Address 2208 W MAIN ST ARTESIA, NM 88210		7. If Unit or CA/Agreement, Name and/or No
3b. Phone No. (include area code) Ph: 575-748-6958		8. Well Name and No. LUCKY BAMBOO 5 FEDERAL 3H
4. Location of Well (Footage, Sec., T, R, M, or Survey Description) Sec 5 T26S R26E SESW 660FSL 2080FWL		9. API Well No. 30-015-39914
10. Field and Pool, or Exploratory WILDCAT; WOLFCAMP		11. County or Parish, and State EDDY COUNTY, NM

RECEIVED

APR 12 2012

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 APD
	<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 recompleate 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 recompleation 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 REQUESTS THE FOLLOWING CHANGES:

Intermediate casing section:

Drill 12-1/4" hole to 1800'

Run 9-5/8" 36# J-55 STC csg to 1800'

Cmt to surface in 1 stg with:

Lead: 450 sx Class C + 4% Gel + 2% CaCl₂ @ 13.5 ppg/1.75 yieldTail: 250 sx Class C + 2% CaCl₂ @ 14.8/1.35 yield

75% excess on OH

7" casing section:

Drill an 8-3/4" PH to 10,700'

Run OH logs, Gyro and take SWC's

Accepted for record

NMOCD

4/13/2012

Verbal
SEE ATTACHED FOR
CONDITIONS OF APPROVAL

APPROVED

Verbal
MAR 23 2012BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

Accepted for record

NMOCD

14. I hereby certify that the foregoing is true and correct		Electronic Submission #133821 verified by the BLM Well Information System	
		For COG PRODUCTION LLC, sent to the Carlsbad	
		Committed to AFMSS for processing by KURT SIMMONS on 03/26/2012 ()	
Name (Printed/Typed)	DEBORA WILBOURN	Title	DRLG ENGINEERING TECH
Signature	(Electronic Submission)	Date	03/26/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date _____
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 _____		

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.

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

Additional data for EC transaction #133821 that would not fit on the form

32. Additional remarks, continued

Plug back from 10,700? to 8900? with 2 plugs:
PHTD plug f/10,700?-10,200?: 225 sx Class H @ 17.2ppg/0.98 yield
KO plug f/9600?-8900?: 300 sx Class H @ 17.2ppg/0.98 yield
Directional plan will remain as approved,
Kick off and drill curve to 9750? MD / 9585? TVD
Run 7? 29# P-110 LTC csg to 9750? MD
Cmt in 2 stgs to surface with DVT/ECP:
1st stg:
Lead: 800 sx 35:65:6 H + Salt + Gilsonite + CF + CFR-3 @ 12.7 ppg/1.89 yield
Tail: 200 sx Class H @ 16.4 ppg/1.1 yield
2nd stg: Lead: 200 sx Class C + 4% Gel + 2% CaCl₂ @ 13.5 ppg/1.75 yield
Tail: 100 sx Class C + 2% CaCl₂ @ 14.8 ppg/1.34 yield
35% excess on OH

4-1/2? liner section:
Drill 6-1/8? lateral to 13,400? MD / 9620? TVD with 10.0 ? 14.0 ppg WBM system.
Run 4-1/2? 11.6# P-110 LTC and hang @ 9000? MD to 13,400? MD
Cmt to top of liner with:
Lead: 250 sx 50:50:2 H + Salt + GasStop + CFR-3 @ 14.4ppg/1.25 yield
Tail: 300 sx 50:50:2 H + Salt + GasStop + Super CBL + CFR-3 @ 14.4ppg/1.25 yield
Minimum tie back to TOL
35% excess on OH

CONDITIONS OF APPROVAL

3H Lucky Bamboo 5 Federal

30-015-39914

Section 5, T.26 S., R.26 E., NMPM

Original COA still Applies, with the following changes

CRITICAL CAVE/KARST

Possible lost circulation in the Delaware.

Possible high pressure in the Wolfcamp formation.

1. 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 and the mud weight for the bottom of the hole. Report results to BLM office.

Per email dated 03/23/2012 to Ed Fernandez from Seth Wild of Concho at 432-528-3633.

The BLM concurs with COG's plan of action to control high pressure gas burst from the Wolfcamp.

However, the BLM requires the following formation integrity test to be done.

- **A test shall be done after drilling at a minimum of 20 feet into the Delaware Bell Canyon formation.**
- **Another test shall be done after drilling at a minimum of 20 feet into the Bone Spring formation.**
- **COG shall provide the BLM the results of the test as soon as possible after running the test.**

COG Operating shall provide an accurate Wolfcamp bottom hole virgin reservoir pressure at this location.

Operator shall submit sundry if proposed DV tool depth cannot be set in +/- 50' range.

CONDITIONS OF APPROVAL

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2. The minimum required fill of cement behind the 7 inch casing is:

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.

Formation below the 7" 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 and the mud weight for the bottom of the hole. Report results to BLM office.

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

☒ Cement should tie-back at least as proposed to **9000 feet** into 7" casing.

DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

Proposed mud weight may not be adequate for drilling through Wolfcamp.

DRILL STEM TEST

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

EGF 032312