

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM 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.*

Lease Serial No.  
NM120908

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

AZORES FEDERAL 7H

2. Name of Operator

COG PRODUCTION LLC

Contact: MAYTE X REYES

E-Mail: mreyes1@concho.com

9. API Well No.

30-025-43170-00-X1

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

WC-025 G06 S253206M

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 32 T24S R32E NWNE 210FSL 2550FEL

11. County or Parish, and State

LEA 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 drilling changes to the original approved APD.

Operator requests to make a change to a 2 stage production cement job to achieve a tie-in to intermediate casing.

DVT placed at 6150?  
ECP placed right below it.

New volumes are

2nd stage lead = 300 sks 11.9

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #342060 verified by the BLM Well Information System

For COG PRODUCTION LLC, sent to the Hobbs

Committed to AFMSS for processing by MUSTAFA HAQUE on 06/15/2016 (16MH0002SE)

Name (Printed/Typed) MAYTE X REYES

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 06/14/2016

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

Approved By ~~(BLM Approver Not Specified)~~ Mustafa Haque

Title PETROLEUM ENGINEER

Date 06/15/2016

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 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.

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

**Additional data for EC transaction #342060 that would not fit on the form**

**32. Additional remarks, continued**

2nd stage tail = 200 sks 14.4

1st stage lead = 260 sks 10.3

1st stage tail = 1440 sks 14.4

Int casing is 9 5/8? 40 ppf set at 4650?.

**PECOS DISTRICT  
CONDITIONS OF APPROVAL**

**HOBBS OCD**

**JUN 20 2016**

**RECEIVED**

|                       |                                    |
|-----------------------|------------------------------------|
| OPERATOR'S NAME:      | COG Production LLC                 |
| LEASE NO.:            | NMNM120908                         |
| WELL NAME & NO.:      | 7H – Azores Federal                |
| SURFACE HOLE FOOTAGE: | 210'/N & 2550'/E                   |
| BOTTOM HOLE FOOTAGE:  | 50'/N & 2310'/W <b>SEC. 29</b>     |
| LOCATION:             | Section 32, T 24 S., R 32 E., NMPM |
| COUNTY:               | Lea County, New Mexico             |

See below for the changes in the Conditions of Approval for the Drilling Section.

**DRILLING**

All previous COAs still apply except the following:

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

**Option #1(Single Stage):**

- ☒ Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.

**Option #2:**

Operator has proposed DV tool at depth of 6150', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

- 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 should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.

**MHH 06142016**



Haque, Mustafa &lt;mhaque@blm.gov&gt;

**FW: [External] EC Document Submitted - Azores Federal #7H**

Dallas Daley &lt;DDaley@concho.com&gt;

Wed, Jun 15, 2016 at 9:27 AM

To: "Haque, Mustafa" &lt;mhaque@blm.gov&gt;, Mayte Reyes &lt;MReyes1@concho.com&gt;

Certainly, my fault. I should have included that initially. Here are all the details for each slurry.

We plan to tie in at minimum 500' into the intermediate string. Which would be a tie in top of 4150'.

**Stage 1****Fluid 2: Lead Slurry****TUNED LIGHT (TM) SYSTEM**

0.50 lbm/sk Halad(R)-9

2 lbm/sk Kol-Seal

0.1250 lbm/sk Poly-E-Flake

0.25 lbm/sk D-AIR 5000

1 lbm/sk Cal-Seal 60

|                     |                             |
|---------------------|-----------------------------|
| Fluid Weight:       | 10.3 lbm/gal                |
| Slurry Yield:       | 3.565 ft <sup>3</sup> /sack |
| Total Mixing Fluid: | 21.63 Gal/sack              |
| <b>Volume:</b>      | <b>165.1 bbl</b>            |
| Top Of Fluid:       | 3678 ft                     |
| Calculated Fill:    | 3638 ft                     |
| Calculated sack:    | 260 sack                    |
| Proposed sack:      | 260 sack                    |

**Fluid 3: Tail Slurry****VERSACEM (TM) SYSTEM**

0.0250 % SA-1015

0.50 % Halad(R)-9

1 % Salt

0.05 % HR-601

|                     |                             |
|---------------------|-----------------------------|
| Fluid Weight:       | 14.4 lbm/gal                |
| Slurry Yield:       | 1.251 ft <sup>3</sup> /sack |
| Total Mixing Fluid: | 5.77 Gal/sack               |
| <b>Volume:</b>      | <b>320.9 bbl</b>            |
| Top Of Fluid:       | 7316 ft                     |
| Calculated Fill:    | 7111 ft                     |
| Calculated sack:    | 1440 sack                   |
| Proposed sack:      | 1440 sack                   |

**Stage 2**

## • Fluid 2: Lead Slurry

## ECONOCEM (TM) SYSTEM

0.50 % Halad(R)-322

1 lbm/sk Kol-Seal

0.25 lbm/sk D-AIR 5000

Fluid Weight: 11.9 lbm/gal  
Slurry Yield: 2.477 ft<sup>3</sup>/sack  
Total Mixing Fluid: 14.22 Gal/sack

**Volume:**

Top Of Fluid:  
Calculated Fill:  
Calculated sack:  
Proposed sack: 300 sack

## Fluid 3: Tail Slurry

## HALCEM (TM) SYSTEM

0.20 % HR-800

Fluid Weight: 14.8 lbm/gal  
Slurry Yield: 1.328 ft<sup>3</sup>/sack  
Total Mixing Fluid: 6.34 Gal/sack

**Volume:**

**47.3 bbl**  
Top Of Fluid: 4949 ft  
Calculated Fill: 1051 ft  
Calculated sack: 200 sack  
Proposed sack: 200 sack

Dallas Daley

**From:** Mayte Reyes**Sent:** Wednesday, June 15, 2016 09:24**To:** Haque, Mustafa; Dallas Daley**Subject:** RE: FW: [External] EC Document Submitted - Azores Federal #7H

[Quoted text hidden]