

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

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.*5. Lease Serial No.
NMNM120895

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
PATRON 23 FEDERAL 2H9. API Well No.
30-015-42449-00-X110. Field and Pool, or Exploratory
CORRAL DRAW11. County or Parish, and State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

COG PRODUCTION LLC

Contact: MAYTE X REYES

E-Mail: mreyes1@concho.com

3a. Address

2208 W 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 23 T25S R29E NENW 322FNL 2085FWL
32.121752 N Lat, 103.956513 W Lon**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.

We request to drill the vertical/curve from intermediate at 3260?? to End of Curve at 8058?? MD / 7785?? TVD with an 8-3/4?? hole size instead of 7-7/8?? as originally permitted.

In the lateral (8058?? MD / 7785?? TVD to 12,238?? MD / 7785?? TVD), we want to reduce hole size from 8-3/4?? to 7-7/8?? at 8058?? MD to TD at 12,238?? MD / 7785?? TVD.

We want to modify our production casing cementing plan to utilize the Halliburton Tune Light system and to adjust cementing volumes in the Lateral and Vertical Sections to optimize the hydrostatic loading of the cement column to avoid losses in the Delaware Sands and Lower Avalon Shale and circulate cement at least to a minimum of 500?? inside the 9-5/8?? casing (minimum TOC ?V 2760??), however, volumes are designed to circulate to 1500?? (1760?? of tie-in above ICP casing shoe at

*Cement as proposed
on production
string.*

*Accepted for record
8/25 NMOC 11/6/2014*

NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 23 2014

Original COAs still stand.

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

Electronic Submission #278015 verified by the BLM Well Information System

For COG PRODUCTION LLC, sent to the Carlsbad

Committed to AFMSS for processing by JENNIFER MASON on 12/17/2014 (15JAM0132SE)

RECEIVED

Name (Printed/Typed) MAYTE X REYES

Title REGULATORY ANALYST

Signature

(Electronic Submission)

Date 11/11/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

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

APPROVED
DEC 17 2014
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD 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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #278015 that would not fit on the form

32. Additional remarks, continued

3260??). As before, this will be a single stage cementing program.

Tail Cementing volumes (VersaCem H @ 14.4 ppg) proposed below are intended to place the tail cement through the lateral section of the well (12,238?? MD / 7785?? TVD) and up into the curve to approximately 7300?? MD / ~7300?? TVD.

Lead Cementing volumes (Halliburton Tune Light @ 10.4 ppg) proposed below are intended to place the Lead Cement from 7300?? to a depth of 1400?? which would be bring the top of the cement approximately 1860?? above the 9-5/8?? intermediate casing shoe at 3260?? (500?? minimum tie back required).

Fluid caliper(s) will be ran at TD to verify cementing volumes for the lateral and curve/vertical sections of this well.

Additional cement volumes may be added if wellbore losses or seepage is detected.

Proposed Cementing Program

Lead : 560 sx of Halliburton Tune Light at 10.4 ppg ?V / 19.06 gal/sx / 3.32 cf/sk)
(Note: Density/Yield of Tune Light Cement at Downhole Conditions)

Tail: 850 sx of Versacem H + 0.4% GasStop + 0.3% CFR-3 + 1% Salt + 1% HR-601
(14.4 ppg ?V 5.7 gal/sk 1.24 cf/sk)

Summary of Volume Calculations by Section

Lead Cement

Lead: 1400?? ?V 3260??(inside 9-5/8??Intermediate to 1500??) 5% Excess

Lead : 159 sx of Halliburton Tune Light (10.4 ppg @ Bottom Hole Conditions ?V/ 19.07 gal/sk / 3.32 cf/sk)

Lead: 3260?? ?V 7300?? (ICP Shoe to KOP ?V 8-3/4?? Bit) 30% Excess

Lead: 400 sx of Halliburton Tune Light (10.4 ppg ?V / 19.07 gal/sk / 3.32 cf/sk)

Total Lead: 560 sx.

Tail Cement

Tail: 7300?? (KOP) ?V 8058?? MD (End of Curve) ?V 8-3/4?? Bit 15% Excess

Tail: 170 sx of Versacem H + 0.4% GasStop + 0.3% CFR-3 + 1% Salt + 1% HR-601 (14.4 ppg ?V 5.7 gal/sk 1.24 cf/sk)

Tail: 8058?? MD (End of Curve) to 12,238?? MD/7785?? TVD

(Change Bit Size to 7-7/8??) 15% Excess

Tail: 672 sx of Versacem H + 0.4% GasStop + 0.3% CFR-3 + 1% Salt + 1% HR-601 (14.4 ppg ?V 5.7 gal/sk 1.24 cf/sk)

Total Tail: 842 sx. >>> 850 sx.

?X
Note: Excess hole volume estimates are based on recent fluid caliper survey results taken at the End of Lateral and at the top of the curve. A fluid caliper will be run on this well and adjustments to these cited volumes may be requested.