

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOCD
Hobbs

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

5. Lease Serial No.
NMNM121490

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

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

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
RATTLESNAKE 28 FED COM 708H

2. Name of Operator
EOG RESOURCES, INC. *✓* Contact: STAN WAGNER
E-Mail: stan_wagner@eogresources.com

9. API Well No.
30-025-43526

3a. Address
ATTN: STAN WAGNER P.O. BOX 2267
MIDLAND, TX 79702

3b. Phone No. (include area code)
Ph: 432-686-3689

10. Field and Pool or Exploratory Area
WC-025 S263327G UPPER WC

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 28 T26S R33E Mer NMP NWNW 506FNL 1118FWL *✓*

11. County or Parish, State
LEA COUNTY, NM

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 Workover Operations
	<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.

EOG Resources requests approval of the attached remediation procedure for this well.

CBL shall be run to verify TOC.
If casing is perforated a CIT must be done per BLM regulations.

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #373592 verified by the BLM Well Information System
For EOG RESOURCES, INC., sent to the Hobbs
Committed to AFMSS for processing by DEBORAH MCKINNEY on 04/24/2017 ()

Name (Printed/Typed) STAN WAGNER Title REGULATORY ANALYST

Signature (Electronic Submission) Date 04/21/2017

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.

KS

**Rattlesnake 28 Fed Com 708H
Remediation Plan
4/20/2017**

General Drilling Info:

10-3/4" Surface Casing: 1,002' MD (TOC at surface, circulated)
7-5/8" Intermediate Casing: 11,656' MD (TOC at surface via three stage cement job)
5-1/2" Production Casing: 19,563' MD / 12,354' TVD
Target: WFMP C Y
Cement "locked up" on primary cement job with 327.5 bbls of displacement. Left 4051' of cement in casing. Completion's CTU tagged and DO cmt from 15,512'. Calculated TOC at ~12,908'.

186 bbls of 15.6 ppg cement pumped. Left 87 bbls inside casing. 99 bbls of casing on outside of casing. $19,563' - 6655' = 12,908'$.

General Completion Info:

Ran CBL, Reported TOC: 12,087' MD / 12,053' TVD
Reported Top of Wolfcamp: 12193' MD / 12,149' TVD (confirmed with geology 12,193'
MWD log = 12,230' MD on KLX CBL dated 3/2/2017)
12193' MD is at ~37* inclination in curve

BLM granted approval to proceed with Frac job with the following COAs:

1. Monitor casing annulus pressure.
2. Following stimulation, submit sundry to remediate TOC.
3. TOC must be at least 500' inside previous casing shoe.
4. Verbal approval to proceed based on TOC being above the top of the Wolfcamp. Approval given since the Wolfcamp is isolated from the Bone Spring.

Frac'd well with 30 stages

Uppermost perms for stage 30 at 12692' – 12,903'

Monitored BS pressure while fracing. Did not experience direct communication to BS.

During pump down to perforate for stage 25 noticed BS pressure had increased to 3010 psi.

Perfs for stage 25 at 13,846' to 14,057'

After pumping stage 25 frac, attempted to pump into BS with 4015 psi. Unable to establish pump in rate

Max STP down 5-1/2" production casing: 10,000+ psi

Final pressure on 7-5/8" x 5-1/2" annulus: 4033 psi (06:00 hrs 4/11/2017)

Current annulus pressure: 3290 psi (06:00 hrs 4/19/2017)

Current production casing pressure: 5000 psi

Current Status:

MIRU coiled tubing equipment to drill-out frac plugs

Recommended Remediation Procedure:

1. Drill-out frac plugs
2. Flow well back until production casing pressure is less than 1000 psi (± 3 weeks). Monitor annulus pressure.
3. Attempt to establish pump in rate down 7-5/8" x 5-1/2" annulus.
 - a. If successful
 - i. Pump enough 15.6 ppg class H cement to fill annular space from $\pm 12,293'$ to 10,656' MD.
 - ii. Place well back on production
 - b. If unsuccessful
 - i. Set composite bridge plug
 - ii. Perforate squeeze holes below top of Wolfcamp
 - iii. Pump enough 15.6 ppg class H cement to fill annular space from squeeze perms to 10,656' MD. Under displace cement by at least 100'.
 - iv. MIRU CTU. Drill out cement and CBP.
 - v. Place well back on production.