

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

**Carlsbad Field Office**  
**OCD Hobbs**

Case Serial No.  
NWNW118726

6. If Indian, Allottee or Tribe Name

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

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

**HOBBS OCD**

1. Type of Well  
 Oil Well  Gas Well  Other

JUN 19 2017

8. Well Name and No.  
ANTIETAM 702H ✓

2. Name of Operator  
EOG RESOURCES, INC. ✓

Contact: STAN WAGNER  
E-Mail: stan\_wagner@eogresources.com

9. API Well No.  
30-025-43478

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 S25309A; UPPER WC

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 9 T25S R33E Mer NMP NWNW 59FNL 378FWL ✓

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 Change to Original A PD
	<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 recomplete 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 recompletion 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, Inc. requests an amendment to our approved APD for this well to reflect the addition of a DV tool to the intermediate casing string.

Detailed information attached.

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

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

Electronic Submission #377831 verified by the BLM Well Information System  
For EOG RESOURCES, INC., sent to the Hobbs  
Committed to AFMSS for processing by DEBORAH MCKINNEY on 06/05/2017 ()

Name (Printed/Typed) STAN WAGNER

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 06/02/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By Mustafa Hague

Title **PETROLEUM ENGINEER**

Date 6/7/2017

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 CFO

**APPROVED**  
JUN 7 2017  
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.

(Instructions on page 2)

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

*KZ*

**EOG RESOURCES, INC.**  
**ANTIETAM 9 FED COM NO. 702H**

**4. CASING PROGRAM - NEW**

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF <sub>min</sub> Collapse	DF <sub>min</sub> Burst	DF <sub>min</sub> Tension
14.75"	0 - 1,190'	10.75"	40.5#	J55	STC	1.125	1.25	1.60
9.875"	0 - 4,900'	7.625"	29.7#	HCP-110	LTC	1.125	1.25	1.60
9.875"	4,900' - 8,000'	7.625"	29.7#	P-110HC	MO-FXL	1.125	1.25	1.60
8.75"	8,000' - 11,900'	7.625"	29.7#	P-110HC	MO-FXL	1.125	1.25	1.60
6.75"	0' - 11,400'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60
6.75"	11,400' - 19,765'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60

Variance is requested to wave the centralizer requirements for the 7-5/8" FJ casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to wave any centralizer requirements for the 5-1/2" FJ casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

**Cementing Program:**

Depth	No. Sacks	Wt. ppg	Yld Ft <sup>3</sup> /ft	Mix Water Gal/sk	Slurry Description
10-3/4" 1,190'	325	13.5	1.73	9.13	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl <sub>2</sub> + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	200	14.8	1.34	6.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
7-5/8" 11,900' DV Tool w/ ECP @ 5,000'	479	11.8	2.37	13.56	Stage 2 Lead: Class C + 4% MPA-5 + 15 pps BA-90 + 1% BA-10A + 5% A-10 + 1% ASA-301 + 3% SMS + 2.5% R-21 + 0.005 pps Static Free + 0.005 gpd FP-6L (TOC @ Surface)
	157	15.6	1.20	5.71	Stage 2 Tail: Class H + 1% EC-1 + 0.15% ASA-301 + 0.2% SMS + 0.85% CD-32 + 0.85% BA-10A + 0.25% R-21 + 0.005 gpd FP-6L
	528	11.8	2.37	13.56	Stage 1 Lead: Class C + 4% MPA-5 + 15 pps BA-90 + 1% BA-10A + 5% A-10 + 1% ASA-301 + 3% SMS + 2.5% R-21 + 0.005 pps Static Free + 0.005 gpd FP-6L
	529	15.6	1.20	5.71	Stage 1 Tail: Class H + 1% EC-1 + 0.15% ASA-301 + 0.2% SMS + 0.85% CD-32 + 0.85% BA-10A + 0.25% R-21 + 0.005 gpd FP-6L
5-1/2" 19,765'	850	14.1	1.26	5.80	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 11,400')

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

**PECOS DISTRICT  
DRILLING OPERATIONS  
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	EOG Resources, Inc.
LEASE NO.:	NMNM118726
WELL NAME & NO.:	702H-Antietam 9 Fed Com
SURFACE HOLE FOOTAGE:	59'N & 378'/W
BOTTOM HOLE FOOTAGE:	2410'N & 984'/W
LOCATION:	Section 9, T.25 S., R.33 E., NMPM
COUNTY:	Lea County, New Mexico

**All previous COAs still apply except the following:**

**A. CASING**

1. The minimum required fill of cement behind the 7 5/8 inch intermediate is:

**Operator has proposed DV tool at depth of 5000', 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 or approved top of cement on the next stage.

b. Second stage above DV tool:

- Cement to surface. If cement does not circulate to the surface:

- i. 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.
- ii. 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.

- iii. If cement falls back, remedial cementing will be done prior to drilling out that string.

**MHH 06072017**