Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018

5.	Lease Serial No.	
	NMNM118726	

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-entered abandoned well. Use form 3160-3 (APD) for such proposals.

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SUBMIT IN	TRIPLICATE - Other inst	ructions on p	_		85°0	7. If Unit or CA	/Agreem	ent, Name	and/or No.
1. Type of Well 8. Well Name and No.									
Oil Well Gas Well Oth		CTANI WAA CNI	ED D		4017	9. API Well No		V	
Name of Operator EOG RESOURCES, INC.	Contact: / E-Mail: stan_wagn	STAN WAGN er@eogresourc	es.com	ECE	IVE	30-025-43			
3a. Address ATTN: STAN WAGNER P.O. MIDLAND, TX 79702	BOX 2267	3b. Phone No. Ph: 432-68		ea code)	LLD	10. Field and Po WC-025 S			
4. Location of Well (Footage, Sec., T	4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 11. County or Parish, State								
Sec 9 T25S R33E Mer NMP N	NENW 164FNL 2003FWL	/				LEA COU	NTY, NI	M	
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDICA?	TE NATU	JRE OF	NOTICE,	REPORT, OR	OTHE	R DATA	A
TYPE OF SUBMISSION			T	YPE OF	ACTION				
= N. C. CI	☐ Acidize	□ Deep	en		☐ Producti	ion (Start/Resur	ne)	□ Water	Shut-Off
■ Notice of Intent	☐ Alter Casing	☐ Hydr				☐ Reclamation			ntegrity
☐ Subsequent Report	☐ Casing Repair	□ New				☐ Recomplete			
☐ Final Abandonment Notice	☐ Change Plans	□ Plug	and Aban	don	☐ Tempor	arily Abandon		Change to Original A	
	Convert to Injection				□ Water D	Disposal		1 D	
testing has been completed. Final Al determined that the site is ready for f EOG Resources, Inc. request of a DV tool to the intermediat Detailed information attached.	inal inspection. s an amendment to our ape casing string.		for this w	ell to ref	flect the add	dition			or has
14. I hereby certify that the foregoing is	Electronic Submission #	RESOURCES,	NC., sent	to the F	lobbs	-			
Name (Printed/Typed) STAN WA	GNER		Title E	REGULA	ATORY AN	ALYST			
Signature (Electronic S	Submission)		Date 0	6/02 <mark>/</mark> 20	APPR	OVED			
	THIS SPACE FO	R FEDERA	L OR ST	ATE C	OFFICE US	SE 2017			
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Approved By Mustara _	Hegree		Title	Dillo	INVLEUN	I ENGINEER		Date	617/2017
Conditions of approval, if any, are attache certify that the applicant holds legal or equivalent would entitle the applicant to conduct the applicant the	itable title to those rights in the		Office	C	ARLSBAD F	D MANAGEMEI IELD OFFICE	TV		
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a		son knowir	ngly and v		ke to any departn	nent or ag	ency of the	United

EOG RESOURCES, INC. ANTIETAM 9 FED COM NO. 703H

4. CASING PROGRAM - NEW

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} 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 -19,929	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.	Yld Ft ³ /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 ₂ + 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 + 015% ASA-301 + 0.2% SMS + 0.85% CD-32 + 0.85% BA-10A + 0.25% R-21 + 0.005 gps 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 + 015% ASA-301 + 0.2% SMS + 0.85% CD-32 + 0.85% BA-10A + 0.25% R-21 + 0.005 gps FP-6L
5-1/2" 19,929	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.:

703H-Antietam 9 Fed Com

SURFACE HOLE FOOTAGE:

164'/N & 2003'/W

BOTTOM HOLE FOOTAGE | 2410'/N & 1644'/W

LOCATION:

Section 9, T.25 S., R.33 E., NMPM

COUNTY:

Lea County, New Mexico

All previous COAs still apply except the following:

CASING A.

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. Excess calculated to 21% - additional cement might be required.
- 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