

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.
NNNM118727

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

HOBBS OCD

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

8. Well Name and No.
ORRTANNA 20 FED 702H

9. API Well No.
30-025-42938-00-X1

10. Field and Pool, or Exploratory
WILDCAT

11. County or Parish, and State
LEA COUNTY, NM

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
EOG RESOURCES INCORPORATED
Contact: STAN WAGNER
E-Mail: stan_wagner@eogresources.com

3a. Address
MIDLAND, TX 79702

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 20 T26S R33E SWSW 220FSL 995FWL

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 checked="" 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 type="checkbox"/> Other
	<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 recompleate 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 recompleation 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.)

EOG Resources requests an amendment to our approved APD for this well to reflect a change in production casing.

Changing to a tapered string. Casing details attached.

This pipe is planned to be run 6/9/16.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

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

**Electronic Submission #341263 verified by the BLM Well Information System
For EOG RESOURCES INCORPORATED, sent to the Hobbs
Committed to AFMSS for processing by MUSTAFA HAQUE on 06/07/2016 (16MH0001SE)**

Name (Printed/Typed) STAN WAGNER Title REGULATORY ANALYST

Signature (Electronic Submission) Date 06/07/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By (BLM Approver Not Specified) Mustafa Haque Title **PETROLEUM ENGINEER** Date 06/07/2016

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.

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**Orrtanna 20 Fed 702H
30-025-42938
EOG Resources, Inc
Surface Location: Sec. 20, T. 26S, R. 33E
Conditions of Approval**

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

DRILLING

All previous COAs still apply except the following:

Variance is granted for centralizers in the production interval per the drilling program.

1. The minimum required fill of cement behind the 5 1/2 X 5.0 inch production casing is:
 - Cement should tie-back at least **500** feet into previous casing string. Operator shall provide method of verification.

**EOG RESOURCES, INC.
ORRTANNA 20 FED NO. 702H**

4. CASING PROGRAM - NEW - SEE COA

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
6.75"	0'-11,500'	5.5"	23#	P-110EC	VAM SG	1.125	1.25	1.60
6.75"	11,500' - 17,033'	5"	23.2#	T-95	NSCC	1.125	1.25	1.60

Variance is also requested to waive any centralizer requirements for the 5" 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: → SEE COA

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Mix Water Gal/sk	Slurry Description
5-1/2" x 5" 17,033'	765	14.8	1.24	5.08	Cement w/ 765 sx 50:50 Class H:Poz + 5% NaCl + 2% Gel + 0.15% CPT-35 + 0.3% CPT-19 + 0.4% CPT-49 + 0.3% CPT-20A (TOC @ 10,500')

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.

VAM SG

Connection Data Sheet

O.D (in)	WEIGHT (lb/ft)	WALL (in)	GRADE	DRIFT	CONNECTION
5.500	23.00	0.415	VST P110EC	4.545	VAM® SG

PIPE PROPERTIES	
Material Grade	VST P110EC
Min. Yield Strength	125 ksi
Min. Tensile Strength	135 ksi
Nominal OD	5.500 in
Nominal ID	4.670 in
Nominal Area	6.630 sq. in
Yield Strength	829 kips
Ultimate Strength	895 kips
Min Internal Yield	16,510 psi
*High Collapse	16,220 psi

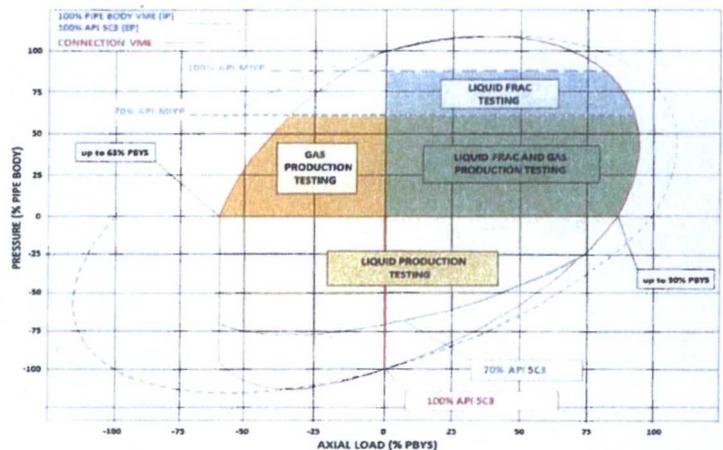
CONNECTION PROPERTIES	
Connection OD	5.720 in
Connection ID	4.603 in
Make up Loss	6.503 in
Connection Critical Area	5.967 sq. in
%PB Section Area	90.0%
Yield Strength	746 kips
Parting Load	805 kips
Min Internal Yield	16,510 psi
*High Collapse	11,350 psi
Working Compression	522 kips
Max. Bending w/ Sealability	40 °/100 ft

DOCUMENTATION	
Ref. Drawing	SI-PD 100835 Rev.A
Date	11-Aug-14
Time	1:21 PM
Email	tech.support@vam-usa.com

TORQUE VALUES	
Min Make Up Torque	9,100 ft-lb
Opt Make Up Torque	11,200 ft-lb
Max Make Up Torque	13,300 ft-lb
Max Torque w/ Sealability	14,500 ft-lb

The single solution for Shale Play needs

VAM® SG brings VAM® premium sealing performance to a semi-flush connection with extremely high Tension performance and increased Torque capacity, validated to the specific Shale drilling requirements, while remaining highly competitive in North American Shale play economics.



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Pipe Description			
Size	Weight	Wall	Grade
5.000"	23.20#	0.478"	T-95
			NS-CC

Performance Properties	
Yield (x 1000 lbs.)	645
Internal Pressure (psi)	15890
Collapse (psi)	16430
Tension (x 1000 lbs.)	659
Compression (x 1000 lbs.)	659

Connection Dimensions	
Pipe ID	4.044"
Pin ID	4.160"
Coupling ID	4.145"
Coupling OD	5.720"
Special Clearance	5.407"
Coupling Length	9.976"
Pin Lc Length	2.008"
Drift Diameter	3.919"

Make-Up			
Torque Min. (ft. lbs.)	Torque Opt. (ft. lbs.)	Torque Max (ft. lbs.)	MakeUp Speed
4800	5400	6100	10 rpm Max
		MakeUp Loss	4.690"

Recommended Thread Compound: API Modified Running Compound, such as Best-of-Life 72733

