

<b>Well Name:</b> MERCILESS 13 FED COM	<b>Well Location:</b> T25S / R32E / SEC 13 / NENE / 32.1371632 / -103.6213551	<b>County or Parish/State:</b> LEA / NM
<b>Well Number:</b> 708H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM110835	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 300254767500X1	<b>Well Status:</b> Drilling Well	<b>Operator:</b> EOG RESOURCES INCORPORATED

**Notice of Intent**

**Type of Submission:** Notice of Intent

**Type of Action:** Other

**Date Sundry Submitted:** 05/12/2021

**Time Sundry Submitted:** 03:40

**Date proposed operation will begin:** 05/11/2021

**Procedure Description:** EOG respectfully requests an amendment to our approved APD for this well to reflect the following changes: Update casing program to current design

**Surface Disturbance**

**Is any additional surface disturbance proposed?:** No

**NOI Attachments**

**Procedure Description**

- Wellhead\_9.675\_in\_20210512154015.pdf
- Merciless\_13\_Fed\_Com\_708H\_Permit\_Info\_\_\_Rev\_Casing\_5.12.2021\_REV\_3\_20210512154008.pdf
- EOG\_BLM\_10M\_Annular\_Variance\_\_\_9.675\_in\_20210512153955.pdf
- 10\_M\_Choke\_Manifold\_20210512153954.pdf
- Co\_Flex\_Hose\_Test\_Chart\_20210512153955.pdf
- Co\_Flex\_Hose\_Certification\_20210512153954.pdf
- 10\_M\_BOP\_Diagram\_9.675\_in\_20210512153953.pdf
- 5.500in\_20.00\_VST\_P110EC\_VAM\_SFC\_20210512153953.pdf
- 7.625in\_29.70\_P110HC\_FXL\_20210512153953.pdf
- 10\_M\_BOP\_Diagram\_13.375\_in\_20210512153953.pdf

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5.50in\_20\_ppf\_P110\_ICY\_TXP\_20210512153953.pdf

**Operator Certification**

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

**Operator Electronic Signature:** STAR HARRELL **Signed on:** MAY 12, 2021 03:40 PM

**Name:** EOG RESOURCES INCORPORATED

**Title:** Regulatory Specialist

**Street Address:** 5509 CHAMPIONS DRIVE

**City:** MIDLAND **State:** TX

**Phone:** (432) 848-9161

**Email address:** STAR\_HARRELL@EOGRESOURCES.COM

**Field Representative**

**Representative Name:** Eric Brorman

**Street Address:** 5509 Champions Drive

**City:** Midland **State:** TX **Zip:** 79706

**Phone:** (432)556-1276

**Email address:** eric\_brorman@eogresources.com

**BLM Point of Contact**

**BLM POC Name:** CHRISTOPHER WALLS **BLM POC Title:** Petroleum Engineer

**BLM POC Phone:** 5752342234 **BLM POC Email Address:** cwalls@blm.gov

**Disposition:** Approved **Disposition Date:** 09/02/2021

**Signature:** Chris Walls

**Revised Permit Information 5/12/2021:**

Well Name: Merciless 13 Fed Com #708H

## Location:

SHL: 251' FNL &amp; 453' FEL, Section 13, T-25-S, R-32-E, Lea Co., N.M.

BHL: 2540' FNL &amp; 330' FEL, Section 24, T-25-S, R-32-E, Lea Co., N.M.

**Casing Program:**

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF <sub>min</sub> Collapse	DF <sub>min</sub> Burst	DF <sub>min</sub> Tension
12.25"	0' – 1,000'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
8.75"	0' – 11,126'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0' – 7,500'	5.5"	20#	P110-ICY	TXP BTC	1.125	1.25	1.60
6.75"	7,500' – 11,200'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60
6.75"	11,200' – 19,802'	5.5"	20#	P110-ICY	TXP BTC	1.125	1.25	1.60

Variance is requested to waive the centralizer requirements for the 7-5/8" 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 waive any centralizer requirements for the 5-1/2" 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.

Variance is also requested to waive the annular clearance requirements for the 5-1/2" casing by 7-5/8" casing annulus to the proposed top of cement.

EOG requests permission to allow deviation from the 0.422" annulus clearance requirement from Onshore Order #2 under the following conditions:

- Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casing strings.
- Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

**Cement Program:**

Depth	No. Sacks	Wt. ppg	Yld Ft <sup>3</sup> /sk	Slurry Description
1,000' 9-5/8"	290	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl <sub>2</sub> + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	80	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 800')
11,126' 7-5/8"	470	14.2	1.11	1 <sup>st</sup> Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,172')
	1,220	14.8	1.5	2 <sup>nd</sup> Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
19,802' 5-1/2"	800	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,626')

<b>Additive</b>	<b>Purpose</b>
Bentonite Gel	Lightweight/Lost circulation prevention
Calcium Chloride	Accelerator
Cello-flake	Lost circulation prevention
Sodium Metasilicate	Accelerator
MagOx	Expansive agent
Pre-Mag-M	Expansive agent
Sodium Chloride	Accelerator
FL-62	Fluid loss control
Halad-344	Fluid loss control
Halad-9	Fluid loss control
HR-601	Retarder
Microbond	Expansive Agent

EOG requests variance from minimum standards to pump a two stage cement job on the 7-5/8'' intermediate casing string with the first stage being pumped conventionally with the calculated TOC at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary a top out consisting of 1,000 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. Top of cement will be verified by Echo-meter.

EOG will include the final fluid top verified by Echo-meter and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

#### **Mud Program:**

<b>Depth</b>	<b>Type</b>	<b>Weight (ppg)</b>	<b>Viscosity</b>	<b>Water Loss</b>
0 – 1,000'	Fresh - Gel	8.6-8.8	28-34	N/c
1,000' – 11,126'	Brine	10.0-10.2	28-34	N/c
11,126' – 11,759'	Oil Base	8.7-9.4	58-68	N/c - 6
11,759' – 19,802' Lateral	Oil Base	10.0-14.0	58-68	3 - 6

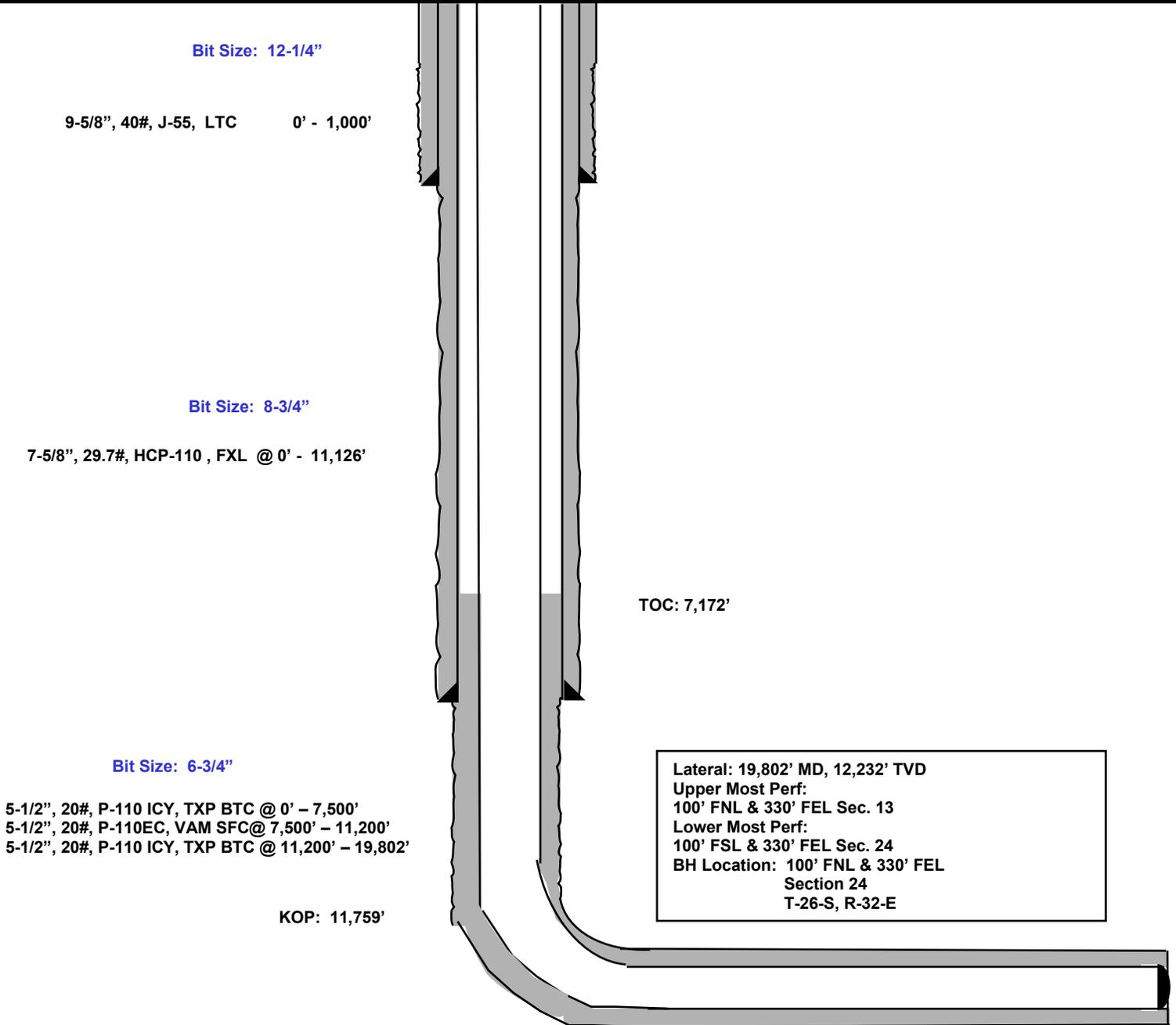
Variance is requested to use a 5,000 psi annular BOP with the 10,000 psi BOP stack.

251' FNL  
453' FEL  
Section 13  
T-25-S, R-32-E

Revised Wellbore

KB: 3,519'  
GL: 3,494'

API: 30-025-47675



**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
 Action 46369

**CONDITIONS**

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 46369
	Action Type: [C-103] NOI Change of Plans (C-103A)

**CONDITIONS**

Created By	Condition	Condition Date
pkautz	None	9/3/2021