

Well Name: MERCILESS 13 FED COM	Well Location: T25S / R32E / SEC 13 / NENE / 32.1371632 / -103.6213551	County or Parish/State: LEA / NM
Well Number: 708H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM110835	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254767500X1	Well Status: Drilling Well	Operator: 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 & 453' FEL, Section 13, T-25-S, R-32-E, Lea Co., N.M.

BHL: 2540' FNL & 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 _{min} Collapse	DF _{min} Burst	DF _{min} 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 ³ /sk	Slurry Description
1,000' 9-5/8"	290	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl ₂ + 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 st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,172')
	1,220	14.8	1.5	2 nd 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')

Additive	Purpose
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:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
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

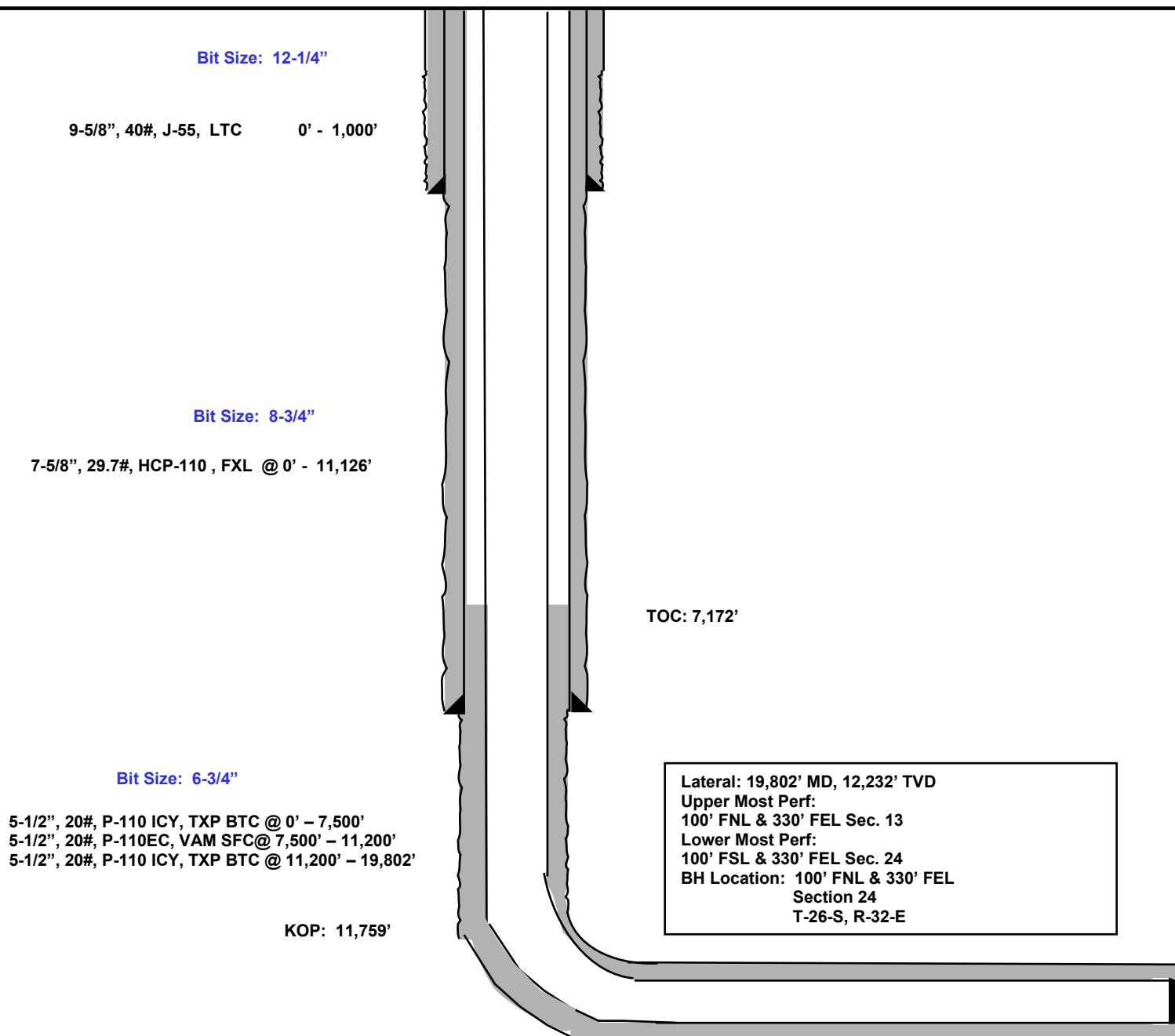
Variance is requested to use a 5,000 psi annular BOP with the 10,000 psi BOP stack.

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