

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-		² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name JEFE 29 FED COM		⁶ Well Number 506H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.		⁹ Elevation 3347'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	29	25-S	32-E	-	1554'	SOUTH	695'	EAST	LEA

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	32	25-S	32-E	-	100'	SOUTH	1440'	EAST	LEA

¹² Dedicated Acres 480	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁶ 		¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____ E-mail Address _____
¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief. 05/12/2020 Date of Survey Signature and Seal of Professional Surveyor Certificate Number _____		

Well Name: JEFE 29 FED COM	Well Location: T25S / R32E / SEC 29 / NESE /	County or Parish/State:
Well Number: 506H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM108971	Unit or CA Name:	Unit or CA Number: NMNM128965
US Well Number:	Well Status: Approved Application for Permit to Drill	Operator: EOG RESOURCES INCORPORATED

Notice of Intent

Type of Submission: Notice of Intent

Date Sundry Submitted: 06/29/2021

Date proposed operation will begin: 07/14/2021

Type of Action Other

Time Sundry Submitted: 02:47

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

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Wellhead_9.675_x_7.625_x_5.5_in_csg_20210629144639.pdf
- 7.625in_29.70_P110HC_FXL_20210629144632.pdf
- 5.500in_20.00_VST_P110EC_VAM_SFC_20210629144625.pdf
- 5.500in_20.00_VST_P110EC_DWC_C_IS_MS_Spec_Sheet_20210629144617.pdf
- Jefe_29_Fed_Com_506H_Sundry_Info___Rev_csg_6.16.2021_20210629144608.pdf

County or Parish/State:

Allottee or Tribe Name:

Unit or CA Number:
NMNM128965

Operator: EOG RESOURCES
INCORPORATED

Additional Reviews

Jefe_29_Federal_Com_506H_DrillingCOA_Sundry_2505846_20210719143410.pdf

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.

Signed on: JUN 29, 2021 02:46 PM

Title: Engineering Associate

City: MIDLAND

State: TX

Phone: (432) 556-1276

Email address: ERIC_BRORMAN@EOGRESOURCES.COM

Representative Name:

Street Address:

City:

State:

Zip:

Phone:**Email address:**

BLM POC Name: CHRISTOPHER WALLS

BLM POC Phone: 5752342234

Disposition: Approved

Signature: Chris Walls

BLM POC Title: Petroleum Engineer

BLM POC Email Address: cwalls@blm.gov

Disposition Date: 07/19/2021



Jefe 29 Fed Com 506H

Revised Permit Information 06/16/2021:

Well Name: Jefe 29 Fed Com 506H

Location: SHL: 2128' FSL & 595' FWL, Section 29, T-25-S, R-32-E, Lea Co., N.M.

BHL: 100' FSL & 920' FWL, Section 32, T-25-S, R-32-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DFmin Collapse	DFmin Burst	DFmin Tension
12.25"	0' - 1,210'	9.625"	36#	J-55	LTC	1.125	1.25	1.6
8.75"	0' - 9,700'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.6
6.75"	0' - 9,200'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.6
6.75"	9,200' - 9,700'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.6
6.75"	9,700' - 18,219'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.6

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 production open hole section.

Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,210' 9-5/8"	330	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 @ 1,010')
9,700' 7-5/8"	350	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 6,790')
	1160	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
18,219' 5-1/2"	780	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 9,200')

**Jefe 29 Fed Com 506H**

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 top of cement at the Brushy Canyon (6,990') 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 1,162 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 will be verified by Echo-meter.

EOG will include the Echo-meter verified fluid top 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 – 1,210'	Fresh - Gel	8.6-8.8	28-34	N/c
1,210' – 9,700'	Brine	10.0-10.2	28-34	N/c
9,700' – 10,183'	Oil Base	8.7-9.4	58-68	N/c - 6
10,183' – 18,219'	Oil Base	10.0-14.0	58-68	4 - 6



Jefe 29 Fed Com 506H

2128' FSL
595' FWL
Section 29
T-25-S, R-32-E

Revised Wellbore

KB: 3385'
GL: 3360'

API: 30-025-48841

Bit Size: 12-1/4"
9-5/8", 36#, J-55, LTC, 0' - 1,210'

Bit Size: 8-3/4"
7-5/8", 29.7#, HCP-110, FXL, 0' - 9,700'

Bit Size: 6-3/4"
5-1/2", 20#, P-110EC, DWC/C-IS MS, @ 0' - 9,200'
5-1/2", 20#, P-110EC, VAM SFC, @ 9,200' - 9,700'
5-1/2", 20#, P-110EC, DWC/C-IS MS, @ 9,700' - 18,219'

KOP: 10,183'

TOC: 9,200'

Lateral: 18,219' MD, 10,645' TVD
Upper Most Perf:
2538' FSL & 920' FWL Sec. 29
Lower Most Perf:
100' FSL & 920' FWL Sec. 32
BH Location: 100' FSL & 920' FWL
Sec. 32
T-25-S R-32-E

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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 37188

COMMENTS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 37188
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
jagarcia	Accepted for record	7/28/2021

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jagarcia	None	7/28/2021