

<b>Well Name:</b> COLGROVE 35 FED COM	<b>Well Location:</b> T26S / R33E / SEC 35 / LOT 3 / 32.0007536 / -103.5462556	<b>County or Parish/State:</b> LEA / NM
<b>Well Number:</b> 748H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM121490	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3002548052	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> EOG RESOURCES INCORPORATED

**Notice of Intent**

**Sundry ID:** 2634637

**Type of Submission:** Notice of Intent

**Type of Action:** Other

**Date Sundry Submitted:** 09/16/2021

**Time Sundry Submitted:** 12:09

**Date proposed operation will begin:** 10/17/2021

**Procedure Description:** EOG respectfully requests an amendment to our approved APD for this well to reflect the following changes: Change name from #710H to #748H. Change BHL to T-26-S, R-33-E, Sec 26, 100' FNL, 1370' FWL, Lea Co., N.M. Change target formation to Wolfcamp U4. Update casing and cement program to current design.

**Surface Disturbance**

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

**NOI Attachments**

**Procedure Description**

- Wellhead\_13.375\_x\_10.75\_x\_8.75\_x\_6\_in\_csg\_20210916120849.pdf
- EOG\_BLM\_10M\_Annular\_Variance\_\_3\_String\_20210916120848.pdf
- Wellhead\_10.75\_x\_8.75\_x\_6\_in\_csg\_Cactus\_SDT\_3141\_1\_20210916120848.pdf
- Co\_Flex\_Hose\_Test\_Chart\_20210916120848.pdf
- See\_previously\_attached\_Drill\_Plan\_20210916120848.pdf
- 10\_M\_Choke\_Manifold\_20210916120847.pdf
- Co\_Flex\_Hose\_Certification\_20210916120847.pdf
- 8.75\_38.5\_lb\_ft\_P110EC\_SPRINT\_SF\_IR778\_ENG\_CDS43\_rev0\_20210916120846.pdf

<b>Well Name:</b> COLGROVE 35 FED COM	<b>Well Location:</b> T26S / R33E / SEC 35 / LOT 3 / 32.0007536 / -103.5462556	<b>County or Parish/State:</b> LEA / NM
<b>Well Number:</b> 748H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
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<b>US Well Number:</b> 3002548052	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> EOG RESOURCES INCORPORATED

13\_3\_8\_54ppf\_J55\_STC\_20210916120846.pdf

10\_M\_BOP\_Diagram\_3\_String\_20210916120846.pdf

10.75\_40.5\_lb\_ft\_J55\_STC\_20210916120846.pdf

6.000\_24.00\_0.4000\_\_P110\_HP\_USS\_EAGLE\_SFH\_SC\_20210916120846.pdf

COLGROVE\_35\_FED\_COM\_748H\_PLAT\_SIGNED\_20210916120833.pdf

Colgrove\_35\_Fed\_Com\_748H\_Sundry\_Info\_\_Dual\_\_\_\_Rev\_Name\_\_BHL\_\_tgt\_\_csg\_8.25.2021\_20210916120824.pdf

### Conditions of Approval

#### Additional Reviews

Colgrove\_35\_Fed\_Com\_748H\_COA\_20211012120333.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:** ERIC BRORMAN

**Signed on:** SEP 16, 2021 12:08 PM

**Name:** EOG RESOURCES INCORPORATED

**Title:** Engineering Associate

**Street Address:** 5509 CHAMPIONS DRIVE

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

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

**Email address:** ERIC\_BRORMAN@EOGRESOURCES.COM

### Field Representative

**Representative Name:**

**Street Address:**

**City:** **State:** **Zip:**

**Phone:**

**Email address:**

### 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:** 10/19/2021

**Signature:** Chris Walls

**Well Name:** COLGROVE 35 FED COM

**Well Location:** T26S / R33E / SEC 35 /  
LOT 3 / 32.0007536 / -103.5462556

**County or Parish/State:** LEA /  
NM

**Well Number:** 748H

**Type of Well:** OIL WELL

**Allottee or Tribe Name:**

**Lease Number:** NMNM121490

**Unit or CA Name:**

**Unit or CA Number:**

**US Well Number:** 3002548052

**Well Status:** Approved Application for  
Permit to Drill

**Operator:** EOG RESOURCES  
INCORPORATED

CONFIDENTIAL

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

<sup>1</sup> API Number <b>30-025-48052</b>		<sup>2</sup> Pool Code <b>98097</b>		<sup>3</sup> Pool Name <b>Sanders Tank; Upper Wolfcamp</b>	
<sup>4</sup> Property Code		<sup>5</sup> Property Name <b>COLGROVE 35 FED COM</b>			<sup>6</sup> Well Number <b>748H</b>
<sup>7</sup> OGRID No. <b>7377</b>		<sup>8</sup> Operator Name <b>EOG RESOURCES, INC.</b>			<sup>9</sup> Elevation <b>3316'</b>

<sup>10</sup>Surface Location

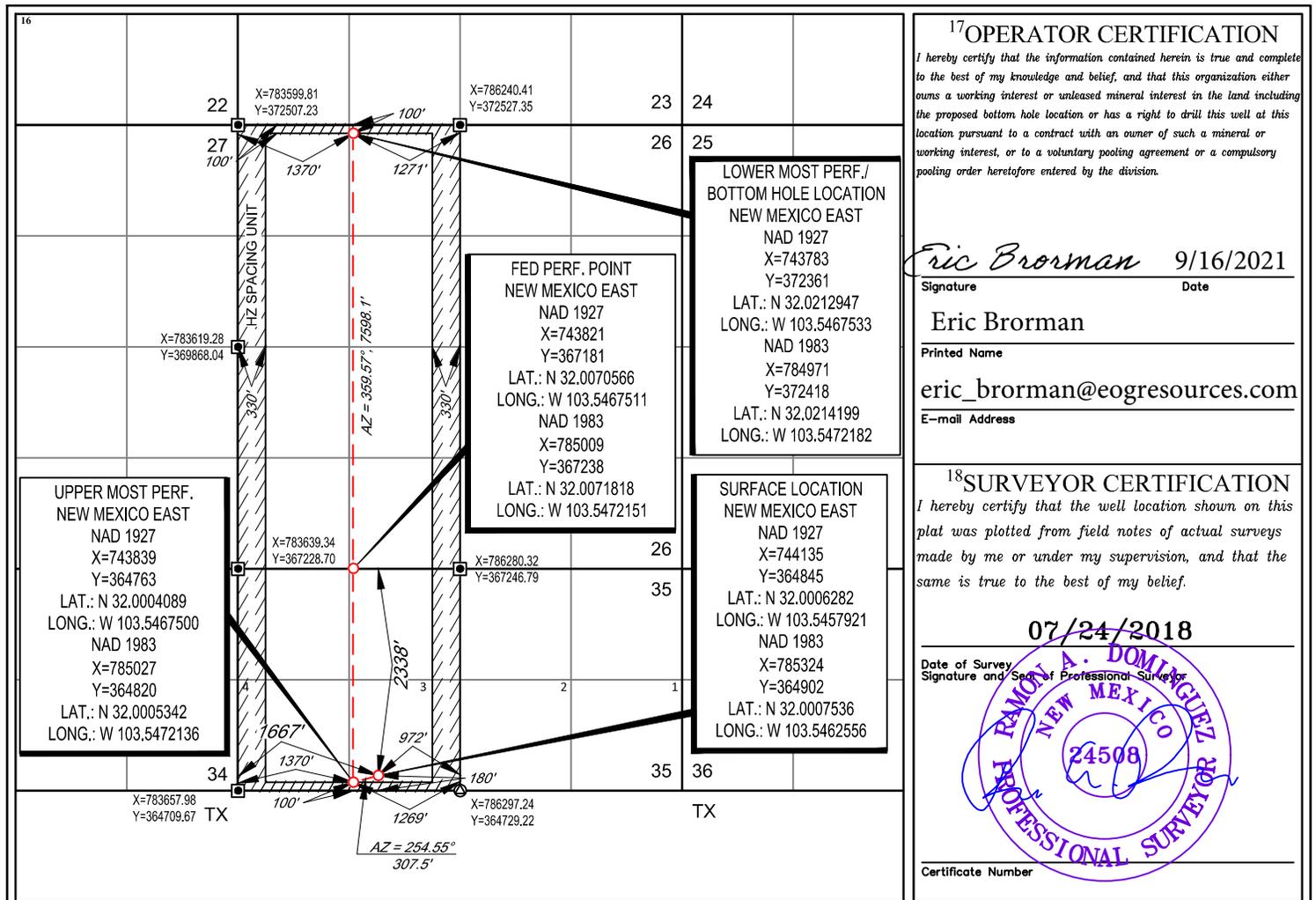
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>3</b>	<b>35</b>	<b>26-S</b>	<b>33-E</b>	<b>-</b>	<b>2338'</b>	<b>NORTH</b>	<b>1667'</b>	<b>WEST</b>	<b>LEA</b>

<sup>11</sup>Bottom 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
<b>C</b>	<b>26</b>	<b>26-S</b>	<b>33-E</b>	<b>-</b>	<b>100'</b>	<b>NORTH</b>	<b>1370'</b>	<b>WEST</b>	<b>LEA</b>

<sup>12</sup> Dedicated Acres <b>472.74</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.



<sup>17</sup>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.

*Eric Brorman* 9/16/2021  
Signature Date

**Eric Brorman**  
Printed Name

**eric\_brorman@eogresources.com**  
E-mail Address

<sup>18</sup>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.

**07/24/2018**  
Date of Survey

**RAMON A. DOMINGUEZ**  
Signature and Seal of Professional Surveyor  
NEW MEXICO  
24508  
PROFESSIONAL SURVEYOR

Certificate Number



### Colgrove 35 Fed Com 748H

#### Revised Permit Information 08/25/2021:

Well Name: Colgrove 35 Fed Com 748H

Location: SHL: 2338' FNL & 1667' FWL, Section 35, T-26-S, R-33-E, Lea Co., N.M.

BHL: 100' FNL & 1370' FWL, Section 26, T-26-S, R-33-E, Lea Co., N.M.

#### Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DFmin Collapse	DFmin Burst	DFmin Tension
13"	0' - 1,020'	10.75"	40.5#	J-55	LTC	1.125	1.25	1.6
9.875"	0' - 11,340'	8.75"	38.5#	P-110EC	Vam Sprint SF	1.125	1.25	1.6
7.875"	0' - 10,840'	6"	24#	P-110 HP	Eagle SFH SC	1.125	1.25	1.6
7.875"	10,840' - 11,340'	6"	24#	P-110 HP	Eagle SFH SC	1.125	1.25	1.6
7.875"	11,340' - 20,576'	6"	24#	P-110 HP	Eagle SFH SC	1.125	1.25	1.6

Variance is requested to waive the centralizer requirements for the 8-3/4" casing in the 9-7/8" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 9-7/8 hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive any centralizer requirements for the 6" casing in the 7-7/8" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 7-7/8" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive the annular clearance requirements for the 6" casing by 8-3/4" 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
1,020' 10-3/4"	270	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)
	70	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 818')
11,340' 8-3/4"	450	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,975')
	1540	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
20,576' 6"	1370	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,844')



## Colgrove 35 Fed Com 748H

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 8-3/4" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (8,175') 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 1,544 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 – 1,020'	Fresh - Gel	8.6-8.8	28-34	N/c
1,020' – 11,340'	Brine	10.0-10.2	28-34	N/c
11,340' – 12,555'	Oil Base	8.7-9.4	58-68	N/c - 6
12,555' – 20,576'	Oil Base	10.0-14.0	58-68	4 - 6



## Colgrove 35 Fed Com 748H

### Wellhead:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.i) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) to include the following:

- Full BOPE test at first installation on the pad.
- Full BOPE test every 30 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- Break testing BOP and BOPE coupled with batch drilling operations and production sections that do not penetrate the Wolfcamp or deeper formations.
- After the well section is cemented the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad. The cemented well will be secured with a blind flange and a pressure gauge for monitoring.



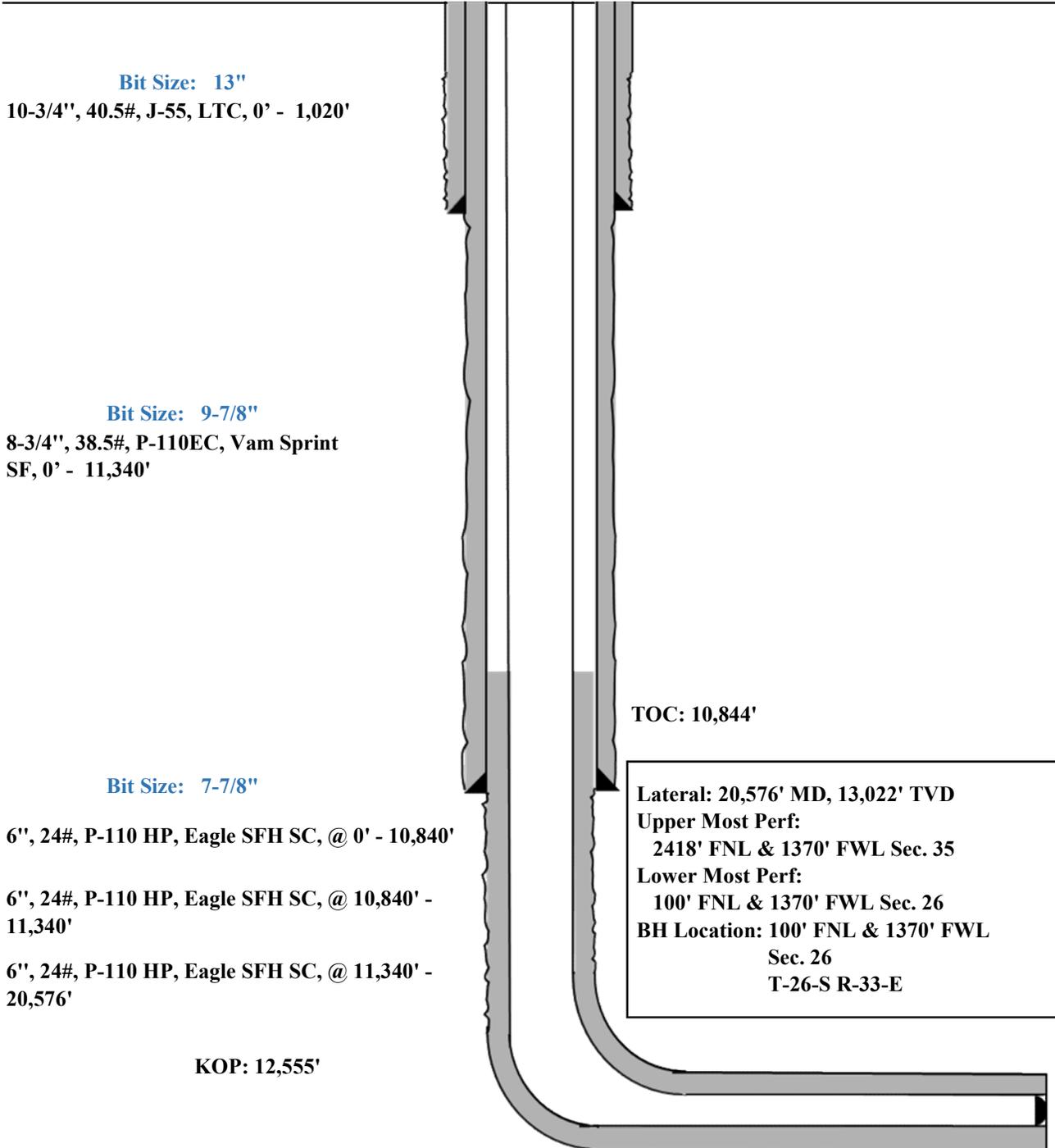
Colgrove 35 Fed Com 748H

2338' FNL  
1667' FWL  
Section 35  
T-26-S, R-33-E

Revised Wellbore

KB: 3341'  
GL: 3316'

API: 30-025-48052





## Colgrove 35 Fed Com 748H

**Design B****4. CONTINGENCY CASING PROGRAM**

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DFmin Collapse	DFmin Burst	DFmin Tension
16"	0' - 1,018'	13.375"	54.5#	J-55	STC	1.125	1.25	1.6
12.25"	0' - 4,000'	10.75"	45.5#	HCL-80	BTC	1.125	1.25	1.6
12.25"	4000' - 4968'	10.75"	45.5#	HCL-80	BTC	1.125	1.25	1.6
9.875"	0' - 11,344'	8.75"	38.5#	P-110EC	Sprint SF	1.125	1.25	1.6
7.875"	0' - 10,844'	6"	24#	P-110 HP	Eagle SFH SC	1.125	1.25	1.6
7.875"	10,844' - 11,344'	6"	24#	P-110 HP	Eagle SFH SC	1.125	1.25	1.6
7.875"	11,344' - 20,576'	6"	24#	P-110 HP	Eagle SFH SC	1.125	1.25	1.6

**Cementing Program:**

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,018' 13-3/8"	310	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)
	100	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 818')
4,968' 10-3/4"	450	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	200	10.8	1.32	Tail: Class C + 10% NaCl + 3% MagOx (TOC @ 3,974')
11,344' 8-3/4"	230	14.8	3.67	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4,468')
20,576' 6"	110	14.8	2.38	Tail: Class H + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 9,844')
	1400	14.8	1.31	Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,844')

As a contingency, EOG requests to pump a two stage cement job on the 8-3/4" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (8,175') 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.

**Mud Program:**

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,018'	Fresh - Gel	8.6-8.8	28-34	N/c
1,018' - 4,968'	Brine	10.0-10.2	28-34	N/c
4,968' - 11,344'	Oil Base	8.7-9.4	58-68	N/c - 6
11,344' - 20,576' Lateral	Oil Base	10.0-14.0	58-68	4 - 6



## Colgrove 35 Fed Com 748H

### Wellhead:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.i) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) to include the following:

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- Break testing BOP and BOPE coupled with batch drilling operations and production sections that do not penetrate the Wolfcamp or deeper formations.
- After the well section is cemented the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad. The cemented well will be secured with a blind flange and a pressure gauge for monitoring.



Colgrove 35 Fed Com 748H

2338'

Proposed Wellbore

KB: 3341'

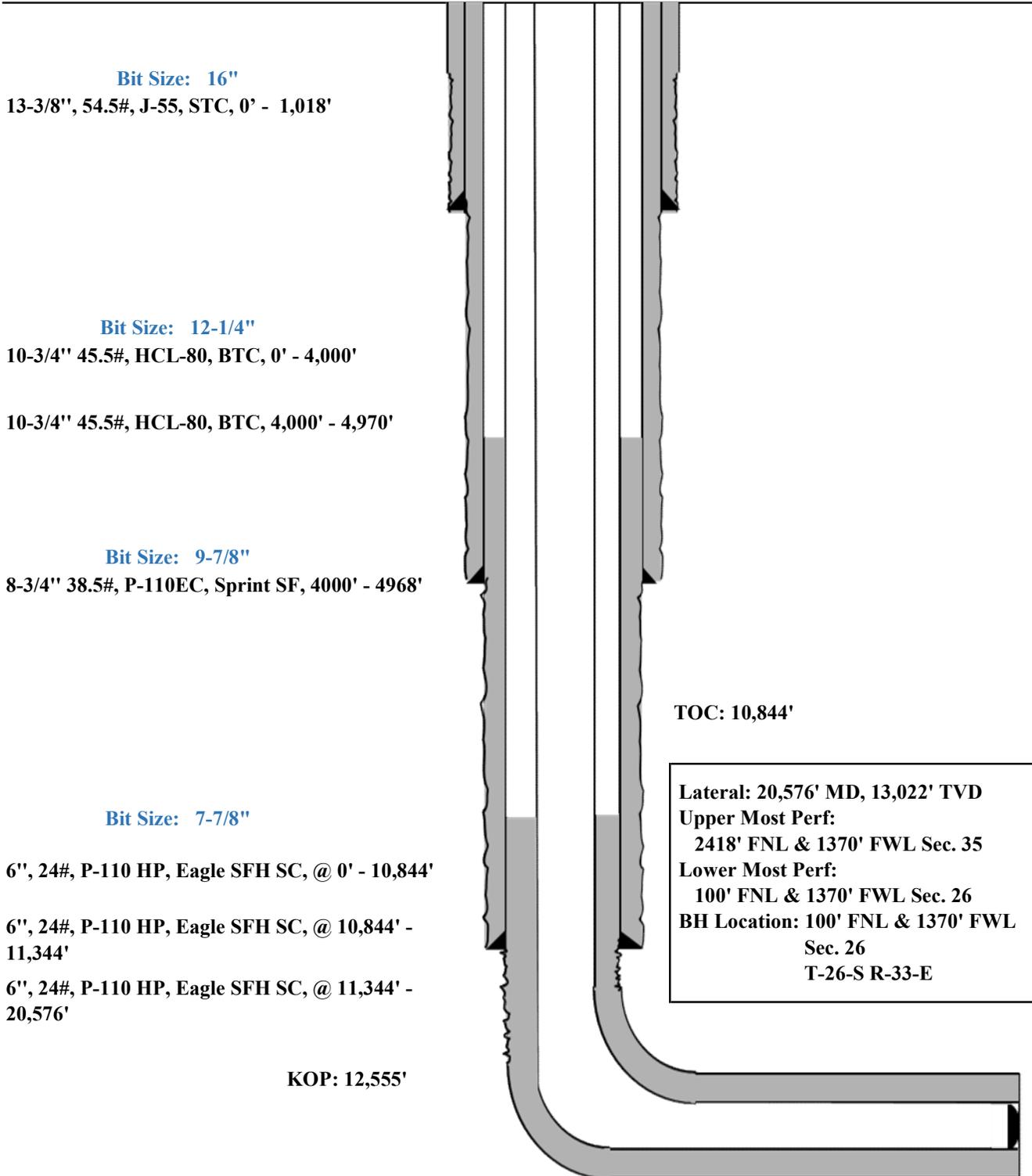
1667'

GL: 3316'

Section 35

T-26-S, R-33-E

API: 30-025-48052



Bit Size: 16"

13-3/8", 54.5#, J-55, STC, 0' - 1,018'

Bit Size: 12-1/4"

10-3/4" 45.5#, HCL-80, BTC, 0' - 4,000'

10-3/4" 45.5#, HCL-80, BTC, 4,000' - 4,970'

Bit Size: 9-7/8"

8-3/4" 38.5#, P-110EC, Sprint SF, 4000' - 4968'

TOC: 10,844'

Bit Size: 7-7/8"

6", 24#, P-110 HP, Eagle SFH SC, @ 0' - 10,844'

6", 24#, P-110 HP, Eagle SFH SC, @ 10,844' - 11,344'

6", 24#, P-110 HP, Eagle SFH SC, @ 11,344' - 20,576'

KOP: 12,555'

Lateral: 20,576' MD, 13,022' TVD  
 Upper Most Perf:  
 2418' FNL & 1370' FWL Sec. 35  
 Lower Most Perf:  
 100' FNL & 1370' FWL Sec. 26  
 BH Location: 100' FNL & 1370' FWL  
 Sec. 26  
 T-26-S R-33-E

**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 56774

**CONDITIONS**

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 56774
	Action Type: [C-103] NOI Change of Plans (C-103A)

**CONDITIONS**

Created By	Condition	Condition Date
pkautz	None	10/25/2021