

Well Name: COLGROVE 35 FED COM	Well Location: T26S / R33E / SEC 35 / LOT 3 / 32.0007536 / -103.5463621	County or Parish/State: LEA / NM
Well Number: 751H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM121490	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548051	Well Status: Approved Application for Permit to Drill	Operator: EOG RESOURCES INCORPORATED

Notice of Intent

Sundry ID: 2634610

Type of Submission: Notice of Intent	Type of Action: Other
Date Sundry Submitted: 09/16/2021	Time Sundry Submitted: 11:58
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 #709H to #751H. Change BHL to T-26-S, R-33-E, Sec 13, 100' FNL, 660' FWL, Lea Co., N.M. Change target formation to Wolfcamp M1. Update casing and cement program to current design.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- COLGROVE_35_FED_COM_751H_PLAT_SIGNED_20210916115820.pdf
- Wellhead_10.75_x_8.75_x_6_in_csg_Cactus_SDT_3141_1_20210916085800.pdf
- See_previously_attached_Drill_Plan_20210916085800.pdf
- Co_Flex_Hose_Test_Chart_20210916085800.pdf
- Co_Flex_Hose_Certification_20210916085800.pdf
- 10_M_Choke_Manifold_20210916085758.pdf
- 8.75_38.5_lb_ft_P110EC_SPRINT_SF_IR778_ENG_CDS43_rev0_20210916085758.pdf
- 6.000_24.00_0.4000__P110_HP_USS_EAGLE_SFH_SC_20210916085758.pdf

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13_3_8_54ppf_J55_STC_20210916085758.pdf

10.75_40.5_lb_ft_J55_STC_20210916085758.pdf

10_M_BOP_Diagram_3_String_20210916085758.pdf

Colgrove_35_Fed_Com_751H_Sundry_Info__Dual____Rev_Name__BHL__tgt__csg_8.25.2021_20210916085505.pdf

Conditions of Approval

Additional Reviews

Colgrove_35_Fed_Com_751H_COA_20211012113258.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 11:58 AM

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

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1625 N. French Dr., Hobbs, NM 88240
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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 30-025-48051	² Pool Code 98097	³ Pool Name Sanders Tank; Upper Wolfcamp
⁴ Property Code	⁵ Property Name COLGROVE 35 FED COM	⁶ Well Number #751H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3315'

¹⁰Surface Location

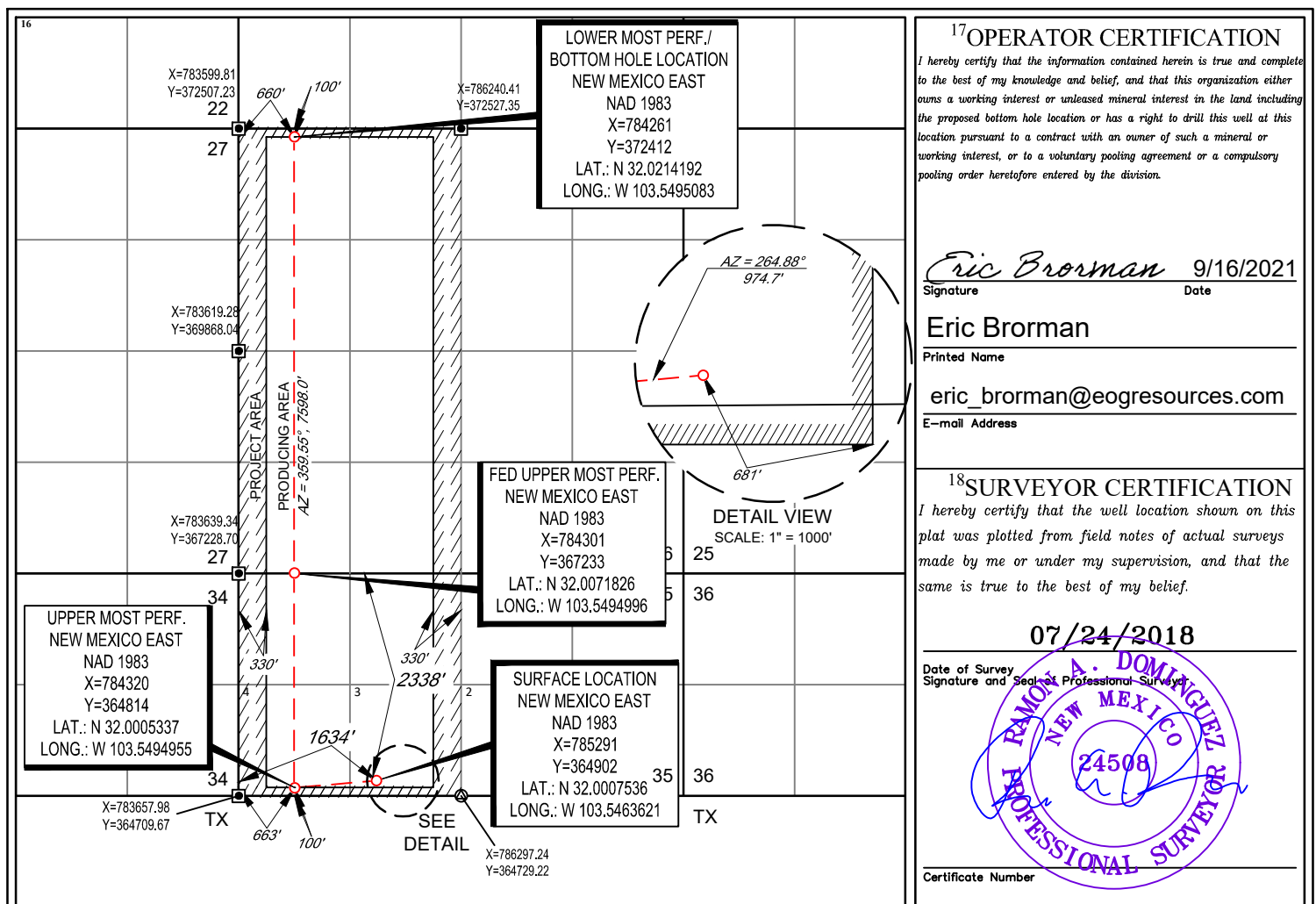
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	35	26-S	33-E	-	2338'	NORTH	1634'	WEST	LEA

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
D	26	26-S	33-E	-	100'	NORTH	660'	WEST	LEA

¹² Dedicated Acres 472.74	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.





Colgrove 35 Fed Com 751H

Revised Permit Information 08/25/2021:

Well Name: Colgrove 35 Fed Com 751H

Location: SHL: 2338' FNL & 634' FWL, Section 35, T-26-S, R-33-E, Lea Co., N.M.

BHL: 100' FNL & 660' 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' - 23,507'	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 ₂ + 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)
23,507' 6"	1760	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,844')



Colgrove 35 Fed Com 751H

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' – 12,820'	Oil Base	8.7-9.4	58-68	N/c - 6
12,820' – 23,507'	Oil Base	10.0-14.0	58-68	4 - 6



Colgrove 35 Fed Com 751H

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 751H

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

Revised Wellbore

KB: 3389'
GL: 3364'

API: 30-025-48051

Bit Size: 13"
10-3/4", 40.5#, J-55, LTC, 0' - 1,020'

Bit Size: 9-7/8"
8-3/4", 38.5#, P-110EC, Vam Sprint
SF, 0' - 11,340'

Bit Size: 7-7/8"
6", 24#, P-110 HP, Eagle SFH SC, @ 0' - 10,840'
6", 24#, P-110 HP, Eagle SFH SC, @ 10,840' - 11,340'
6", 24#, P-110 HP, Eagle SFH SC, @ 11,340' - 23,507'

TOC: 10,844'

Lateral: 23,507' MD, 13,022' TVD
Upper Most Perf:
100' FSL & 663' FWL Sec. 35
Lower Most Perf:
100' FNL & 660' FWL Sec. 26
BH Location: 100' FNL & 660' FWL
Sec. 26
T-26-S R-33-E

KOP: 12,820'



Colgrove 35 Fed Com 751H

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' - 23,507'	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'	310	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
13-3/8"	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'	450	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
10-3/4"	200	10.8	1.32	Tail: Class C + 10% NaCl + 3% MagOx (TOC @ 3,974')
11,344'	230	14.8	3.67	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4,468')
8-3/4"	110	14.8	2.38	Tail: Class H + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 9,844')
23,507' 6"	1800	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.

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Depth	Type	Weight (ppg)	Viscosity	Water Loss
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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' - 23,507' Lateral	Oil Base	10.0-14.0	58-68	4 - 6



Colgrove 35 Fed Com 751H

Wellhead:

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Colgrove 35 Fed Com 751H

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634' FWL
Section 35
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13-3/8", 54.5#, J-55, STC, 0' - 1,018'

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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'

Bit Size: 7-7/8"
6", 24#, P-110 HP, Eagle SFH SC, @ 0' - 10,844'
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6", 24#, P-110 HP, Eagle SFH SC, @ 11,344' - 23,507'

TOC: 10,844'

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Sec. 26
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KOP: 12,820'

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

CONDITIONS

Action 56775

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 56775
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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