

Well Name: RESOLUTE 12 FED COM	Well Location: T25S / R32E / SEC 12 / SESW / 32.1388468 / -103.6300078	County or Parish/State: LEA / NM
Well Number: 705H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM110835	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254760900X1	Well Status: Approved Application for Permit to Drill	Operator: EOG RESOURCES INCORPORATED

Notice of Intent

Type of Submission: Notice of Intent	Type of Action Other
Date Sundry Submitted: 05/21/2021	Time Sundry Submitted: 06:41
Date proposed operation will begin: 06/13/2021	

Procedure Description: EOG respectfully requests an amendment to our approved APD for this well to reflect the following changes: Change SHL to T-25-S, R-32-E, Sec 12, 368' FSL, 2174' FWL, Lea Co., N.M. Change BHL to T-25-S, R-32-E, Sec 1, 100' FNL, 2535' FWL, Lea Co., N.M. Change target formation to Wolfcamp Clastics Y.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- EOG\_BLM\_10M\_Annular\_Variance\_\_\_9.625\_in\_20210521064107.pdf
- Resolute\_12\_Fed\_Com\_705H\_Sundry\_Info\_\_\_Rev\_SHL\_\_\_BHL\_\_\_tgt\_5.12.2021\_20210521064107.pdf
- Wellhead\_9.675\_x\_7.625\_x\_5.5\_in\_csg\_20210521064107.pdf
- See\_previously\_attached\_Drill\_Plan\_20210521064107.pdf
- Resolute\_12\_Fed\_Com\_705H\_Wall\_Plot\_20210521064107.pdf
- Resolute\_12\_Fed\_Com\_705H\_Planning\_Report\_20210521064107.pdf
- 10\_M\_Choke\_Manifold\_20210521064105.pdf
- 7.625in\_29.70\_P110HC\_FXL\_20210521064104.pdf
- 5.500in\_20.00\_VST\_P110EC\_VAM\_SFC\_20210521064104.pdf
- 10\_M\_BOP\_Diagram\_9.625\_in\_20210521064104.pdf

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Co\_Flex\_Hose\_Test\_Chart\_20210521064105.pdf  
Co\_Flex\_Hose\_Certification\_20210521064104.pdf  
5.500in\_20.00\_VST\_P110EC\_DWC\_C\_IS\_MS\_Spec\_Sheet\_20210521064104.pdf  
RESOLUTE\_12\_FED\_COM\_705H\_C102\_20210521064053.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 21, 2021 06:41 AM  
**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 Phone:** 5752342234  
**Disposition:** Approved  
**Signature:** Chris Walls  
**BLM POC Title:** Petroleum Engineer  
**BLM POC Email Address:** cwalls@blm.gov  
**Disposition Date:** 06/10/2021

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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

<sup>1</sup> API Number <b>30-025-47609</b>	<sup>2</sup> Pool Code <b>98180</b>	<sup>3</sup> Pool Name <b>WC-025 G-09 S253309P; Upper Wolfcamp</b>
<sup>4</sup> Property Code <b>329310</b>	<sup>5</sup> Property Name <b>RESOLUTE 12 FED COM</b>	<sup>6</sup> Well Number <b>705H</b>
<sup>7</sup> OGRID No. <b>7377</b>	<sup>8</sup> Operator Name <b>EOG RESOURCES, INC.</b>	<sup>9</sup> Elevation <b>3499'</b>

<sup>10</sup>Surface Location

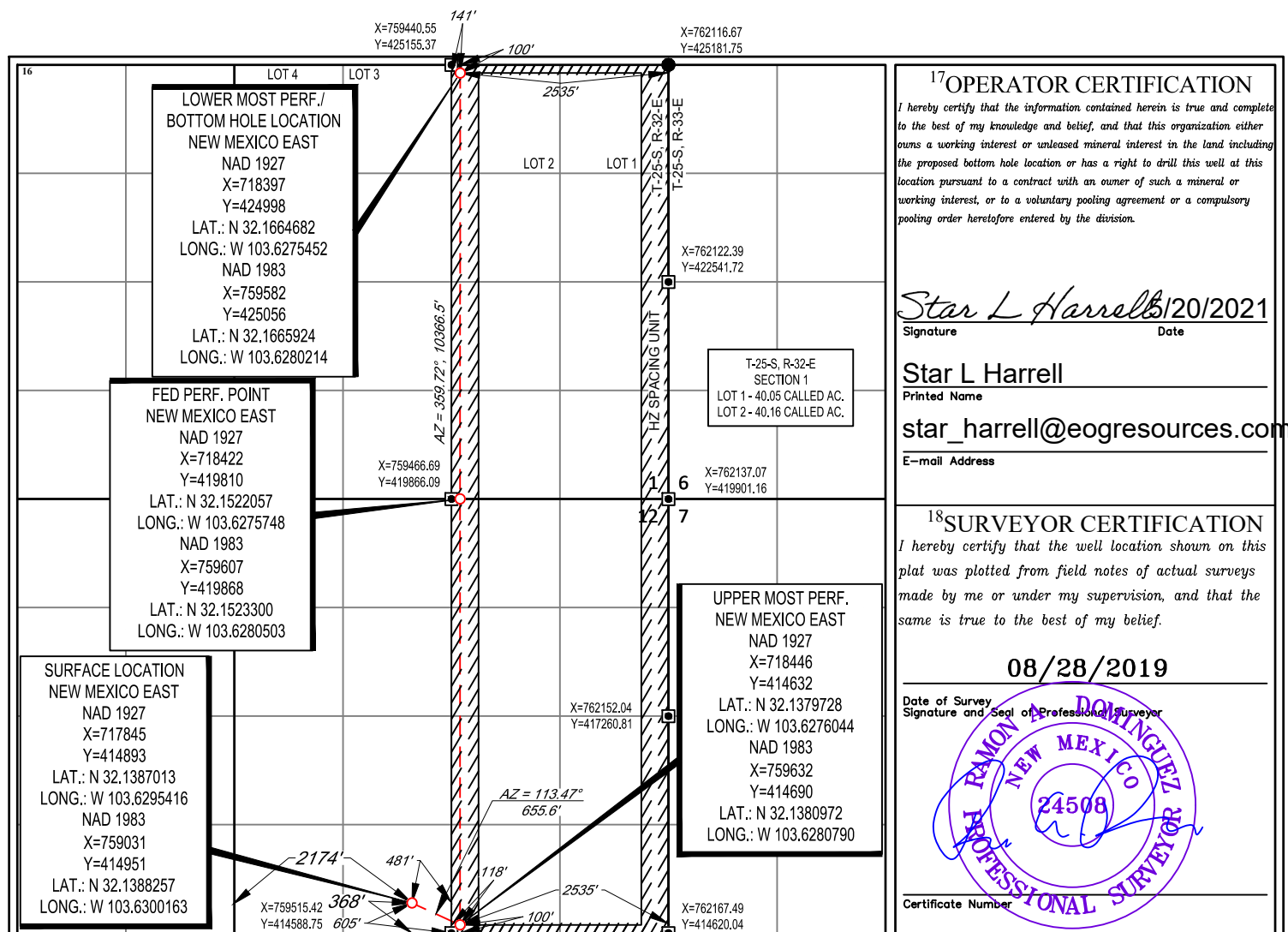
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>N</b>	<b>12</b>	<b>25-S</b>	<b>32-E</b>	<b>-</b>	<b>368'</b>	<b>SOUTH</b>	<b>2174'</b>	<b>WEST</b>	<b>LEA</b>

<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>2</b>	<b>1</b>	<b>25-S</b>	<b>32-E</b>	<b>-</b>	<b>100'</b>	<b>NORTH</b>	<b>2535'</b>	<b>EAST</b>	<b>LEA</b>

<sup>12</sup> Dedicated Acres <b>640.21</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.





## Resolute 12 Fed Com 705H

### Revised Permit Information 05/12/2021:

Well Name: Resolute 12 Fed Com 705H

Location: SHL: 368' FSL & 2174' FWL, Section 12, T-25-S, R-32-E, Lea Co., N.M.

BHL: 100' FNL & 2535' FWL, Section 1, 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' - 1,100'	9.625"	36#	J-55	LTC	1.125	1.25	1.6
8.75"	0' - 11,220'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.6
6.75"	0' - 10,720'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.6
6.75"	10,720' - 11,220'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.6
6.75"	11,220' - 22,566'	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
1,100' 9-5/8"	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)
	80	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 900')
11,220' 7-5/8"	470	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,220')
	1230	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
22,566' 5-1/2"	1010	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,720')

**Resolute 12 Fed Com 705H**

<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 top of cement at the Brushy Canyon (7,420') 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 1,234 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:**

<b>Depth</b>	<b>Type</b>	<b>Weight (ppg)</b>	<b>Viscosity</b>	<b>Water Loss</b>
0 – 1,100'	Fresh - Gel	8.6-8.8	28-34	N/c
1,100' – 11,220'	Brine	10.0-10.2	28-34	N/c
11,220' – 11,877'	Oil Base	8.7-9.4	58-68	N/c - 6
11,877' – 22,566'	Oil Base	10.0-14.0	58-68	4 - 6



## Resolute 12 Fed Com 705H

368' FSL  
2174' FWL  
Section 12  
T-25-S, R-32-E

Revised Wellbore

KB: 3524'  
GL: 3499'

API: 30-025-48367

Bit Size: 12-1/4"  
9-5/8", 36#, J-55, LTC, 0' - 1,100'

Bit Size: 8-3/4"  
7-5/8", 29.7#, HCP-110, FXL, 0' - 11,220'

Bit Size: 6-3/4"  
5-1/2", 20#, P-110EC, DWC/C-IS MS, @ 0' - 10,720'  
5-1/2", 20#, P-110EC, VAM SFC, @ 10,720' - 11,220'  
5-1/2", 20#, P-110EC, DWC/C-IS MS, @ 11,220' - 22,566'

KOP: 11,877'

TOC: 10,720'

Lateral: 22,566' MD, 12,315' TVD  
Upper Most Perf:  
100' FSL & 2535' FWL Sec. 12  
Lower Most Perf:  
100' FNL & 2535' FWL Sec. 1  
BH Location: 100' FNL & 2535' FWL  
Sec. 1  
T-25-S R-32-E

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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 31415

**CONDITIONS**

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 31415
	Action Type: [C-103] NOI Change of Plans (C-103A)

**CONDITIONS**

Created By	Condition	Condition Date
pkautz	None	8/27/2021