

<b>Well Name:</b> LONG ARROYO MQ FEDERAL COM	<b>Well Location:</b> T14S / R27E / SEC 26 / NENE /	<b>County or Parish/State:</b> CHAVES / NM
<b>Well Number:</b> 2	<b>Type of Well:</b> CONVENTIONAL GAS WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM19181	<b>Unit or CA Name:</b> LONG ARROYO MQ FEDERAL CO	<b>Unit or CA Number:</b> NMNM72311
<b>US Well Number:</b> 300056170100S1	<b>Well Status:</b> Producing Gas Well	<b>Operator:</b> EOG RESOURCES INCORPORATED

Accepted for record – NMOCD gc 7/20/2021

Notice of Intent

<b>Type of Submission:</b> Notice of Intent	<b>Type of Action</b> Plug and Abandonment
<b>Date Sundry Submitted:</b> 07/08/2021	<b>Time Sundry Submitted:</b> 03:30
<b>Date proposed operation will begin:</b> 07/28/2021	
<b>Procedure Description:</b> Please see attached. Thank you.	

Surface Disturbance

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

NOI Attachments

**Procedure Description**  
Long\_Arroyo\_MQ\_Federal\_Com\_2\_7\_8\_21\_20210708153006.pdf

Conditions of Approval

**Specialist Review**  
General\_Conditions\_of\_Approval\_20210719114156.pdf  
Conditions\_of\_Approval\_20210719114156.pdf

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<b>US Well Number:</b> 300056170100S1	<b>Well Status:</b> Producing Gas Well	<b>Operator:</b> EOG RESOURCES INCORPORATED

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.

<b>Operator Electronic Signature:</b> TINA HUERTA	<b>Signed on:</b> JUL 08, 2021 03:30 PM
<b>Name:</b> EOG RESOURCES INCORPORATED	
<b>Title:</b> Regulatory Specialist	
<b>Street Address:</b> 104 SOUTH FOURTH STREET	
<b>City:</b> Artesia	<b>State:</b> NM
<b>Phone:</b> (575) 748-4168	
<b>Email address:</b> tina_huerta@eogresources.com	

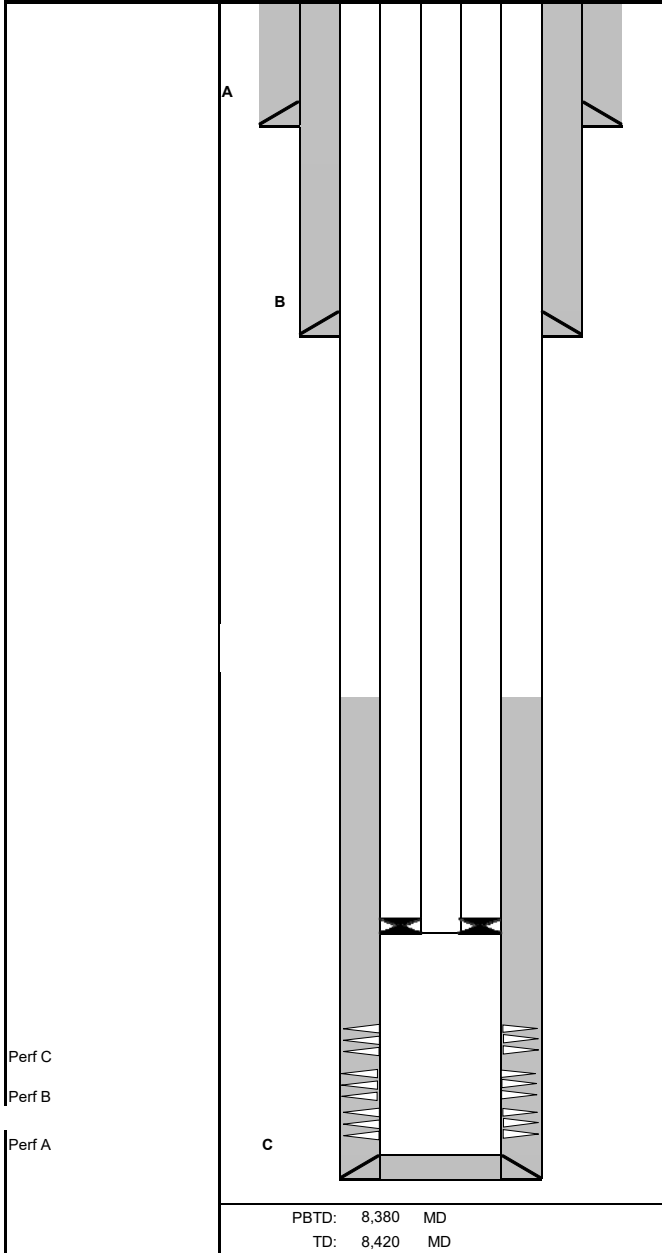
Field Representative

<b>Representative Name:</b>		
<b>Street Address:</b>		
<b>City:</b>	<b>State:</b>	<b>Zip:</b>
<b>Phone:</b>		
<b>Email address:</b>		

BLM Point of Contact

<b>BLM POC Name:</b> JENNIFER SANCHEZ	<b>BLM POC Title:</b> Petroleum Engineer
<b>BLM POC Phone:</b> 5756270237	<b>BLM POC Email Address:</b> j1sanchez@blm.gov
<b>Disposition:</b> Approved	<b>Disposition Date:</b> 07/19/2021
<b>Signature:</b> Jennifer Sanchez	

# Long Arroyo MQ Federal 2 Current



Sec-TWN-RNG:		Sec. 26-14S-27E		API: 30-005-61701					
FOOTAGES:		660' FNL & 990' FEL		GL: 3438					
				KB:					
CASING DETAIL									
#	HOLE SIZE	SIZE	WGHT	GRADE	Top	Bottom	Sx Cmt	Circ/TOC	TOC Method
A	17 1/2	13 3/8	48	J-55	0	295	250	Circ	
B	12 1/4	8 5/8	24	J-55	0	1,648	1100	Circ	
C	7 7/8	5 1/2	15.5/17	J-55	0	8,420	375	5770	Calculated
FORMATION TOPS									
		Formation	Top			Formation	Top		
		San Andres	1469						
		Glorieta	2805						
		Abo	4960						
		Wolfcamp LS	6101						
		Cisco	6876						
		Strawn	7528						
		Atoka	7812						
		Morrow Clas.	7889						
		Mississipian LS	8244						
TUBING DETAIL									
#	Joints	Description	Length	OD	ID	Grade	Wt (lb/ft):	Top (ftKB):	Btm (ftKB):
		2-7/8" Tubing and packer						7,834	
		Packer @ 7834'							
Perforation Detail									
	Formation	Top	Bottom	Treatment					
A	Morrow	8211	8,221	w/1500g 7 1/2% acid, N2 + balls. SF w/1500g 7 1/2% acid, 15000g gel acid, CO2, 27000# (7000#-100 mesh + 20000# 20/40 sand)					
B	Morrow	7,992	7,995	w/1000g 7 1/2% Morrow acid with 1000 SCF/barrel N2 and ball sealers. Frac'd w/16000 gals crosslink gel, 36 tons CO2 and 15000# 20/40 resin coated sand					
C	Atoka	7,903	7,905	w/2000 gals 7.5% Morrow acid with 1000 SCF N2 per bbl					
D									
E									

# Long Arroyo MQ Federal 2 Proposed

Plug 11: Surface Plug

Plug 10: Casing Shoe

Plug 9: Casing Shoe + San Andres Top

Plug 8: Glorieta Top

Plug 7: Abo Top

Plug 6: TOC

Plug 5: Wolfcamp Top

Plug 4: Cisco Top

Plug 3: Strawn Top

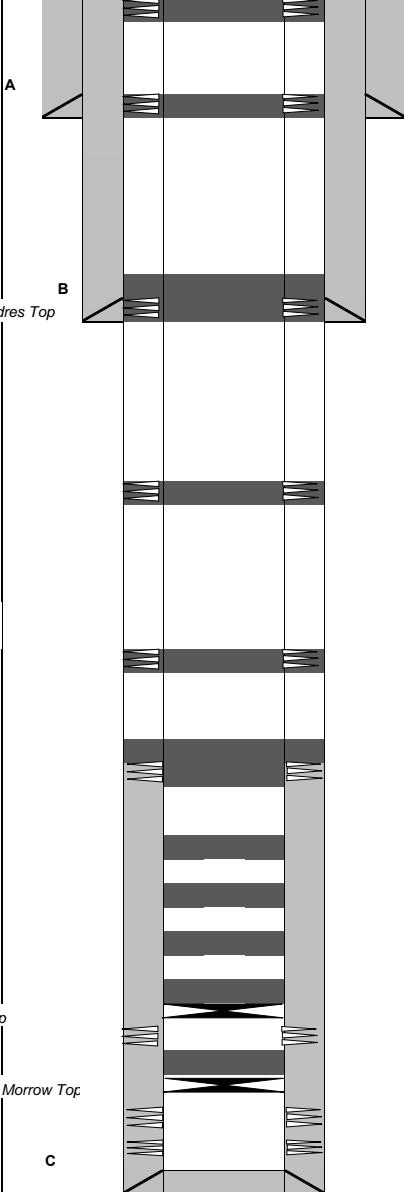
Plug 2: Atoka Perfs + Atoka Top

Perf C

Plug 1: CIBP + Morrow Perfs + Morrow Top

Perf B

Perf A



PBTD: 8,380 MD  
TD: 8,420 MD

Sec-TWN-RNG:  
FOOTAGES:

Sec. 26-14S-27E  
660' FNL & 990' FEL

API: 30-005-61701  
GL: 3438  
KB:

## CASING DETAIL

#	HOLE SIZE	SIZE	WGHT	GRADE	Top	Bottom	Sx Cmt	Circ/TOC	TOC Method
A	17 1/2	13 3/8	48	J-55	0	295	250	Circ	
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C	7 7/8	5 1/2	15.5/17	J-55	0	8,420	375	5770	Calculated

## FORMATION TOPS

	Formation	Top		Formation	Top
	San Andres	1469			
	Glorieta	2805			
	Abo	4960			
	Wolfcamp LS	6101			
	Cisco	6876			
	Strawn	7528			
	Atoka	7812			
	Morrow Clas.	7889			
	Mississippian LS	8244			

## Perforation Detail

	Formation	Top	Bottom	Treatment		
A	Morrow	8211	8,221			
B	Morrow	7,992	7,995			
C	Atoka	7,903	7,905			

## Plugs

#	SX	Class	Top	Bottom	Δ	Notes	Tag
1	12	H	7905	7972	67	Morrow Perfs (Plug reaches Atoka Perfs)	Y
2	25	H	7642	7862	220	Atoka Perfs + Atoka Top	Y
3	25	H	7358	7578	220	Strawn Top	N
4	25	C	6679	6926	247	Cisco Top	N
5	25	C	5904	6151	247	Wolfcamp LS Top	N
6	35	C	5652	5830	178	TOC	Y
7	40	C	4838	5010	172	Abo Top	Y
8	35	C	2705	2855	150	Glorieta Top	Y
9	70	C	1414	1698	284	Casing Shoe + San Andres Top	Y
10	30	C	224	345	121	Casing Shoe	Y
11	14	C	0	55	55	Surface Plug	Y

**Long Arroyo MQ Federal Com 2  
30-005-61701  
EOG Resources Incorporated  
July 19, 2021  
Conditions of Approval**

- 1. Operator shall place CIBP at 7,972' and places 12 sx of Class H cement on top as proposed. WOC and TAG.**
- 2. Operator shall place CIBP at 7,853' (50'-100' above top most perf) and places 25 sx of Class H cement on top. WOC and TAG.**
- 3. Operator shall place a balanced Class H cement plug from 7,578'-7,358' as proposed.**
- 4. Operator shall place a balanced Class C cement plug from 6,926'-6,679' as proposed.**
- 5. Operator shall place a balanced Class C cement plug from 6,151'-5,904' to seal the top of the Wolfcamp as proposed.**
- 6. Operator shall perf and squeeze at 5,830'. Operator shall place a balanced Class C cement plug from 5,830'-5,652' as proposed. WOC and TAG.**
- 7. Operator shall perf and squeeze at 5,010'. Operator shall place a balanced Class C cement plug from 5,010'-4,838' to seal the top of the Abo. WOC and TAG.**
- 8. Operator shall perf and squeeze at 2,855'. Operator shall place a balanced Class C cement plug from 2,855'-2,705' to seal the top of the Glorieta as proposed. WOC and TAG.**
- 9. Operator shall perf and squeeze at 1,698'. Operator shall place a balanced Class C cement plug from 1,698'-1,598' to seal the 8-5/8" casing shoe. WOC and TAG.**
- 10. Operator shall perf and squeeze at 345'. Operator shall place a balanced Class C cement plug from 345'-224' to seal the 13-3/8" casing shoe and the top of the Yates. WOC and TAG.**
- 11. Operator shall perf and squeeze at 100'. Operator shall place a balanced Class C cement plug from 100'- surface as proposed.**

**12. See Attached for general plugging stipulations.**

**JAM 07192021**

**BUREAU OF LAND MANAGEMENT**  
**Roswell Field Office**  
**2909 W. Second Street**  
**Roswell, New Mexico 88201**  
**575-627-0272**

**General Requirements for Plug Backs**

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within **ninety (90)** days from this approval.

**If you are unable to plug back the well by the 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged back. Failure to do so will result in enforcement action.**

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plug back operations. Call 575-627-0205.

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of **brine** water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement.

**Before pumping cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either **Neat Class "C"**, for up to 7,500 feet of depth or **Neat Class "H"**, for deeper than 7,500 feet plugs.

6. **Subsequent Plug back Reporting:** Within 30 days after plug back work is completed, file one original and three copies of the Subsequent Report, Form 3160-5 to BLM. The report should give in detail the manner in which the plug back work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date work was completed.**

7. **Trash:** All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

**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 36980

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 36980
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
gcordero	None	7/20/2021