

<b>Well Name:</b> PHILLIPS KH FEDERAL COM	<b>Well Location:</b> T14S / R27E / SEC 23 / NWSE /	<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> NMNM17214	<b>Unit or CA Name:</b> PHILLIP KH FEDERAL COM	<b>Unit or CA Number:</b> NMNM72058
<b>US Well Number:</b> 300056345200S1	<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> 07:50
<b>Date proposed operation will begin:</b> 07/22/2021	
<b>Procedure Description:</b> Please see attached. Thank you.	

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

**Procedure Description**

Phillips\_KH\_Federal\_Com\_2\_7\_8\_21\_20210708074953.pdf

Conditions of Approval

**Specialist Review**

Conditions\_of\_Approval\_20210719144746.pdf

General\_Conditions\_of\_Approval\_20210719144746.pdf

<b>Well Name:</b> PHILLIPS KH FEDERAL COM	<b>Well Location:</b> T14S / R27E / SEC 23 / NWSE /	<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> NMNM17214	<b>Unit or CA Name:</b> PHILLIP KH FEDERAL COM	<b>Unit or CA Number:</b> NMNM72058
<b>US Well Number:</b> 300056345200S1	<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 07:50 AM
<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	

EOG Resources, Inc. plans to plug and abandon this well as follows:

1. MIRU all safety equipment as needed. NU BOP. POOH with production equipment.
2. Set a CIBP at 7994 ft with 25 sx Class H cement on top to 7774. WOC and tag. This will cover Morrow top and perms.
3. Set a CIBP at 7606 ft with 40 sx Class H cement on top to 7253 ft. WOC and tag. This will cover L Canyon, Strawn, Atoka, Morrow tops and Atoka perms.
4. Spot a 25 sx Class C cement plug from 6967 ft – 6720 ft. This will cover Cisco top.
5. Spot a 25 sx Class C cement plug from 6170 ft – 5923 ft. This will cover Wolfcamp top.
6. Spot a 25 sx Class C cement plug from 5074 ft – 4827 ft. This will cover Abo top.
7. Spot a 25 sx Class C cement plug from 4277 ft – 4030 ft. This will cover Tubb top.
8. Perforate at 3015 ft. Spot a 26 sx Class C cement plug from 3015 ft – 2759 ft. This will cover casing shoe and Glorieta top.
9. Perforate at 1370 ft. Spot a 34 sx Class C cement plug from 1370 ft – 1220 ft. WOC and tag. This will cover TOC.
10. Perforate at 994 ft. Spot a 32 sx Class C cement plug from 994 ft – 890 ft. WOC and tag. This will cover Grayburg top.
11. Perforate at 876 ft. Spot a 40 sx Class C cement plug from 876 ft – 745 ft. WOC and tag. This will cover Queen and Seven Rivers top.
12. Perforate at 710 ft. Spot a 32 sx Class C cement plug from 710 ft – 606 ft. WOC and tag. This will cover Yates top.
13. Perforate at 470 ft. Spot a 32 sx Class C cement plug from 470 ft – 366 ft. WOC and tag. This will cover casing shoe.
14. Perforate at 52 ft. Spot a 16 sx Class C cement plug from 52 ft up to surface. WOC and tag. Back fill as needed.
15. Cut off wellhead and install dry hole marker. Clean location as per regulated.

Wellbore schematics attached

# Phillips KH Federal Com 2 Current

Sec-TWN-RNG: Sec. 23-14S-27E  
FOOTAGES: 1980'FSL & 1650'FEL

API: 30-005-63452  
GL: 3503  
KB: 3520

## 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	420	400	Circ	
B	12 1/4	9 5/8	36	J-55	0	2,965	1025	Circ	
C	8 3/4	5 1/2	15.5, 17	J-55,P-110	0	8,350	1700	1320	CBL

## FORMATION TOPS

	Formation	Top		Formation	Top
	Yates	660		Atoka	7654
	Seven Rivers	798		Morrow	7886
	Queen	826		Chester	8200
	Grayburg	944			
	Glorieta	2833			
	Tubb	4227			
	Abo	5024			
	Wolfcamp	6120			
	Cisco	6917			
	L Canyon	7382			
	Strawn	7528			

## TUBING DETAIL

#	Joints	Description	Length	OD	ID	Grade	Wt (lb/ft)	Top (ftKB)	Btm (ftKB)
		2 7/8 tubing and packer						7,508	

## Perforation Detail

	Formation	Top	Bottom	Treatment
A	Morrow	8,176	8,200	Acidize w/2400g 7-1/2% Morrow acid and 144 BS
				Frac w/40# 70Q foam frac w/687 bbls and 75,000# 18/40 Versaprop
				total N2 793,482 and total CO2 160 tons
B	Morrow	8,044	8,068	Acidize w/2400g 7-1/2% Morrow acid and BS and N2
C	Atoka	7,656	7,690	Acidize w/1400g 7-1/2% Morrow acid, 1000 SCF N2/bbl and BS
				Frac w/70Q linear 40# foam 52,900# 18/40 Versaprop

PBTD: 8,300 MD  
TD: 8,350 MD

Prepared by: TH

Perf C

Perf B

Perf A

A

B

C

TOC 1320

*Plug 13: Surface plug*

*Plug 12: Casing shoe*

*Plug 11: Yates top*

Plug 10: Queen Top + Seven Rivers top

### Plug 9: Grayburg top

### Plug 8: TOC plug

### Plug 7: Casing shoe + Glorieta top

### Plug 6: Tubb top

Plug 5: Abo top

### Plug 4: Wolfcamp top

### Plug 3: Cisco top

Plug 2: CIBP + L Canyon +  
Strawn top + Atoka top +  
Morrow top + Atoka perms

Perf C

Plug 1: CIBP + Morrow top + Morrow perfs

Perf B

Perf A

PBTD:	8,300	MD
TD:	8,350	MD

Sec-TWN-RNG:	Sec. 23-14S-27E
FOOTAGES:	1980'FSL & 1650'FEL

API:	30-005-63452
GL:	3503
KB:	3520

### CASING DETAIL

[illegible]

## FORMATION TOPS

		Formation	Top			Formation	Top	
		Yates	660			Cisco	6917	
		Seven Rivers	798			L Canyon	7382	
		Queen	826			Strawn	7528	
		Grayburg	944			Atoka	7654	
		Glorieta	2833			Morrow	7886	
		Tubb	4227			Chester	8200	
		Abo	5024					
		Wolfcamp	6120					

### Perforation Detail

	Formation	Top	Bottom	Treatment
				Acidize w/2400g 7-1/2% Morrow acid and 144 BS Frac w/40# 70Q foam frac w/687 bbls and 75,000# 18/40 Versaprop total N2 793,482 and total CO2 160 tons
A	Morrow	8,176	8,200	
B	Morrow	8,044	8,068	Acidize w/2400g 7-1/2% Morrow acid and BS and N2
C	Atoka	7,656	7,690	Acidize w/1400g 7-1/2% Morrow acid, 1000 SCF N2/bbl and BS Frac w/70Q linear 40# foam 52,900# 18/40 Versaprop

## Plugs

#	SX	Class	Top	Bottom	Δ	Notes	Tag
1	25	H	7,774	7,994	220	CIBP + Morrow top + Morrow perfs	Y
2	40	H	7,253	7,606	353	CIBP + L Canyon + Strawn + Atoka top + Morrow top + Atoka perfs	Y
3	25	C	6,720	6,967	247	Cisco top	
4	25	C	5,923	6,170	247	Wolfcamp top	N
5	25	C	4,827	5,074	247	Abo top	N
6	25	C	4,030	4,277	247	Tubb Top	N
7	26	C	2,759	3,015	256	Casing Shoe + Glorieta top	N
8	34	C	1,220	1,370	150	TOC plug	Y
9	32	C	890	994	104	Grayburg top	Y
10	40	C	745	876	131	Queen top + Seven Rivers top	Y
11	32	C	606	710	104	Yates top	Y
12	32	C	366	470	104	Casing Shoe	Y
13	16	C	0	52	52	Surface Plug	Y

Prepared by: Naomi F 3/22/21

**Phillips KH Federal Com 2  
30-005-63452  
EOG Resources Incorporated  
July 19, 2021  
Conditions of Approval**

1. Operator shall place CIBP at 7,994' and places 25 sx of Class H cement on top as proposed. WOC and TAG.
2. Operator shall place CIBP at 7,606' (50'-100' above top most perf) and places 40 sx of Class H cement on top as proposed. WOC and TAG.
3. Operator shall place a balanced Class C cement plug from 6,967'-6,720' as proposed.
4. Operator shall place a balanced Class C cement plug from 6,170'-5,923' as proposed to seal the top of the Wolfcamp.
5. Operator shall place a balanced Class C cement plug from 5,074'-4,827' as proposed to seal the top of the Abo.
6. Operator shall place a balanced Class C cement plug from 4,277'-4,030' as proposed.
7. Operator shall perf and squeeze at 3,015'. Operator shall place a balanced Class C cement plug from 3,015'-2,759' as proposed to seal the 9-5/8" shoe and the top of the Glorieta. WOC and TAG.
8. Operator shall perf and squeeze at 1,370'. Operator shall place a balanced Class C cement plug from 1,370'-1,220' as proposed. WOC and TAG.
9. Operator shall perf and squeeze at 994'. Operator shall place a balanced Class C cement plug from 994'-890' as proposed. WOC and TAG.
10. Operator shall perf and squeeze at 876'. Operator shall place a balanced Class C cement plug from 876'-745' as proposed. WOC and TAG.
11. Operator shall perf and squeeze at 710'. Operator shall place a balanced Class C cement plug from 710'-606' as proposed. WOC and TAG.

12. Operator shall perf and squeeze at 470'. Operator shall place a balanced Class C cement plug from 470'-220' to seal the 13-3/8" casing shoe and the top of the Yates Formation. WOC and TAG.
13. Operator shall perf and squeeze at 100'. Operator shall place a balanced Class C cement plug from 100' - surface as proposed.
14. 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 36997

**CONDITIONS**

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 36997
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

**CONDITIONS**

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