

<b>Well Name:</b> LUKE BAV FEDERAL COM	<b>Well Location:</b> T21S / R22E / SEC 3 / NWSE /	<b>County or Parish/State:</b> EDDY / NM
<b>Well Number:</b> 1	<b>Type of Well:</b> CONVENTIONAL GAS WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM102890	<b>Unit or CA Name:</b> 1 LUKE BAV FED COM	<b>Unit or CA Number:</b> NMNM107698
<b>US Well Number:</b> 300153194700S2	<b>Well Status:</b> Inactive	<b>Operator:</b> EOG RESOURCES INCORPORATED

Accepted for record – NMOCD gc 8/20/2021

Notice of Intent

<b>Type of Submission:</b> Notice of Intent	<b>Type of Action</b> Plug and Abandonment
<b>Date Sundry Submitted:</b> 07/12/2021	<b>Time Sundry Submitted:</b> 12:43
<b>Date proposed operation will begin:</b> 08/02/2021	
<b>Procedure Description:</b> Please see attached. Thank you.	

Surface Disturbance

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

NOI Attachments

**Procedure Description**  
Luke\_BAV\_Federal\_Com\_1\_7\_12\_21\_20210712124246.pdf

Conditions of Approval

**Specialist Review**  
Luke\_BAV\_Federal\_Com\_1\_Sundry\_ID\_2507215\_P\_A\_20210731154925.pdf

<b>Well Name:</b> LUKE BAV FEDERAL COM	<b>Well Location:</b> T21S / R22E / SEC 3 / NWSE /	<b>County or Parish/State:</b> EDDY / NM
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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 12, 2021 12:42 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> LONG VO	<b>BLM POC Title:</b> Petroleum Engineer
<b>BLM POC Phone:</b> 5752345972	<b>BLM POC Email Address:</b> LVO@BLM.GOV
<b>Disposition:</b> Approved	<b>Disposition Date:</b> 07/31/2021
<b>Signature:</b> Long Vo	

3-215-22E

API: 30-015-31947

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

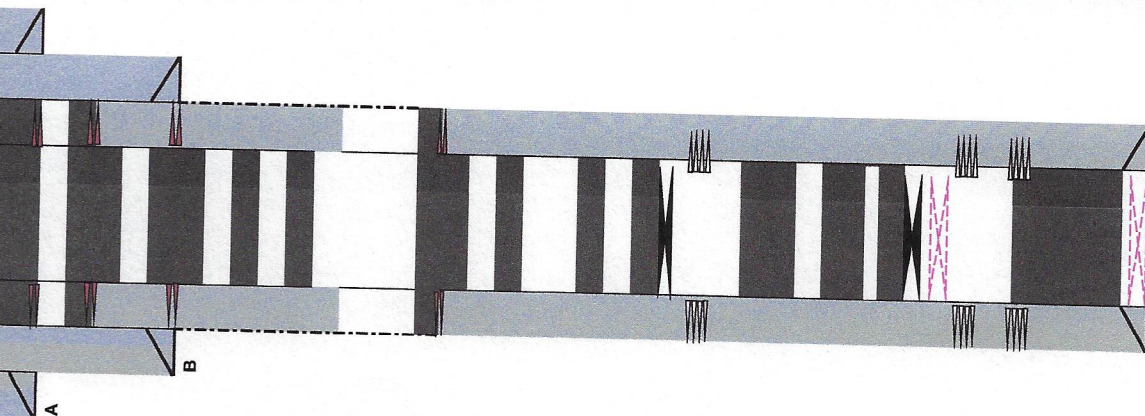
1. MIRU all safety equipment as needed. NU BOP. POOH with production equipment.
2. Spot a 25 sx Class H cement plug from 9372 ft – 9034 ft. WOC and tag. This will cover Chester top.
3. Set a CIBP at 8916 ft with ~~4~~ <sup>25 sx</sup> Class H cement on top to ~~8866~~ <sup>8808'</sup> ft. This will cover Morrow perms. <sup>WOC & TAG</sup>
4. Spot a 25 sx Class H cement plug from 8842 ft – 8504 ft. This will cover Atoka top. <sup>WOC & TAG</sup>
5. Spot a 25 sx Class H cement plug from 8440 ft – 8102 ft. This will cover Strawn top. <sup>WOC & TAG</sup>
6. Set a CIBP at 7799 ft with 4 sx Class C cement on top to 7749 ft. This will cover Canyon perms. <sup>Leak test CSAP</sup>
7. Spot a 25 sx Class C cement plug from 6455 ft – 6077 ft. This will cover Cisco top.
8. Spot a 25 sx Class C cement plug from 5125 ft – 4767 ft. This will cover Wolfcamp top.
9. Perforate at 4382 ft. Spot a 25 sx Class C cement plug from 4382 ft – 4218 ft. WOC and tag. This will cover TOC – lower. <sup>(In/out) TOC ≈ 4300'</sup>
10. Spot a 25 sx Class C cement plug from 3861 ft – 3483 ft. This will cover Abo top.
11. Spot a 25 sx Class C cement plug from 3331 ft – 2953 ft. This will cover Tubbs top.
12. Perforate at 1571 ft. Spot a 25 sx Class C cement plug from 1571 ft – 1233 ft. WOC and tag. This will cover Intermediate casing shoe.
13. Perforate at ~~978~~ <sup>100</sup> ft. Spot a ~~25~~ <sup>230 sx</sup> Class C cement plug from ~~978~~ <sup>900'</sup> ft – ~~822~~ <sup>surface</sup> ft. WOC and tag. This will cover TOC – upper. <sup>Verify @ surface</sup>
14. ~~Perforate at 407 ft. Spot a 104 sx Class C cement plug from 407 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

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED



## Luke BAV Federal Com 1 Proposed



Sec-TWN-RNG: Sec. 03-21S-22E  
 FOOTAGES: 1980' FNL & 1905' FEL  
 API: 30-015-31947  
 GL: 4206  
 KB:

## CASING DETAIL

#	HOLE SIZE	SIZE	WGHT	GRADE	Top	Bottom	Sx Cmt	Circ/TOC	TOC Method
A	17 1/2	13 3/8	48	H-40	0	357	400	Circ	
B	12 1/4	8 5/8	24	J-55		1,402	1285	Circ	
C	7 7/8	4 1/2	11.6	P-110		9,400	990	4300	NMOC Est.
							800	900' - 3940'	CBL

## FORMATION TOPS

Formation	Top	Formation	Top	Formation	Top
Tubbs	3142	Strawn	8271		
Abo	3811	Atoka	8673		
Wolfcamp	4936	Morrow	8948		
Cisco	6266	Chester	9203		
Canyon	7324				

## TUBING DETAIL

#	Joints	Description	Length	OD	ID	Grade	WT (lb/ft)	Top (ftKB)	Btm (ftKB)
		2-3/8" Tubing and packer						7,847	

## PLUGS

#	SX	Class	Top	Bottom	Δ	Notes	Tag
1	25	H	9034	9372	338	Chester Top [Plug only needs to reach 9153' but must run 25 sx.]	Y
2	25	H	8966	8916	50	Morrow Perfs	Y
3	25	H	8504	8842	338	Atoka Top	Y
4	25	H	8102	8440	338	Strawn Top	Y
5	4	C	7749	7799	50	Canyon Perfs	N
6	25	C	6077	6455	378	Cisco Top	N
7	25	C	4767	5125	358	Wolfcamp Top	N
8	25	C	4218	4382	164	TOC - Lower	N
9	25	C	3483	3861	378	Abo Top	Y
10	25	C	2953	3331	378	Tubbs Top	N
11	25	C	1233	1571	338	Int. Csg. Shoe	N
12	25	C	822	900	156	TOC - Upper	Y
13	104	C	0	407	407	Surface Csg. Shoe & Surface Plug	Y

## PERFORATION DETAIL

Formation	Top	Bottom	Formation	Top	Bottom
Morrow	9,073	9,083	Canyon	7,849	7,863
Morrow	8,966	8,974			

## ADDITIONAL DETAIL

Existing CIBP with no cement cap at 8900' needs to be removed for P&A  
 Partial CIBP [infill remnant] pushed to TD at 9358' does not need to be removed for P&A

Prepared by: KJP

PBTD: 9,358 MD  
 TD: 9,400 MD



Medium Cave

## Luke BAV Federal Com 1 Current

Sec-TWN-RNG: Sec. 03-21S-22E  
 FOOTAGES: 1980' FNL & 1905' FEI  
 API: 30-015-31947  
 GL: 4206  
 KB:

## CASING DETAIL

#	HOLE SIZE	SIZE	WGHT	GRADE	Top	Bottom	Sx Cnt	Circ/TOC	TOC Method
A	17 1/2	13 3/8	48	H-40	0	357	400	Circ	
B	12 1/4	8 5/8	24	J-55		1,402	1285		
C	7 7/8	4 1/2	11.6	P-110		9,400	990		

## FORMATION TOPS

	Formation	Top	Formation	Top
	Tubbs	3142		
	Alto	3811		
	Wolfcamp	4936		
	Cisco	6266		
	Canyon	7324		
	Strawn	8271		
	Atoka	8673		
	Morrow	8948		
	Chester	9203		

## TUBING DETAIL

#	Joints	Description	Length	OD	ID	Grade	Wt (lb/ft)	Top (ftKB)	Btm (ftKB)
		2-3/8" Tubing and packer						7,647	

## Perforation Detail

Formation	Top	Bottom	Treatment
A Morrow	9,073	9,083	950 gals 15% NEFE acid 1000 gals 7 1/2% MSA acid
Morrow	8,966	8,974	1000 gals 7 1/2 MSA Acid
B Canyon	7849	7863	63,000 gas 35% water gel 65Q Co2 w/75,000 #20/40 Acidize w/1500g 7-1/2% MSA Acid

Prepared by: Prepared by: DR

PBTD: 9,538 MD  
 TD: 9,400 MD

A

B

C

C

Perf B

Perf A



**BUREAU OF LAND MANAGEMENT**  
**Carlsbad Field Office**  
**620 East Greene Street**  
**Carlsbad, New Mexico 88220**  
**575-234-5972**

**Permanent Abandonment of Federal Wells**  
**Conditions of Approval**

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 the approval date of this Notice of Intent to Abandon.

If you are unable to plug 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. Failure to do so will result in enforcement action.

The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.

2. Notification: Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-393-3612.

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. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. Before pumping or bailing 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. Dry Hole Marker: All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). **The BLM is to be notified a minimum of 4 hours prior to the wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut off shall commence within ten (10) calendar days of the well being plugged. If the cut off cannot be done by the 10<sup>th</sup> day, the BLM is to be contacted with justification to receive an extension for completing the cut off.**

The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement, unless otherwise noted in COA (requirements will be attached). The following information shall be permanently inscribed on the dry hole marker: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds).

7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging 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 well was plugged.**

8. 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.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation objectives.





# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Carlsbad Field Office  
620 E. Greene St.  
Carlsbad, New Mexico 88220-6292  
www.blm.gov/mm



In Reply Refer To: 1310

### Reclamation Objectives and Procedures

**Reclamation Objective:** Oil and gas development is one of many uses of the public lands and resources. While development may have a short- or long-term effect on the land, successful reclamation can ensure the effect is not permanent. During the life of the development, all disturbed areas not needed for active support of production operations should undergo "interim" reclamation in order to minimize the environmental impacts of development on other resources and uses. At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land and water are restored.

The long-term objective of final reclamation is to set the course for eventual ecosystem restoration, including the restoration of the natural vegetation community, hydrology, and wildlife habitats. In most cases this means returning the land to a condition approximating or equal to that which existed prior to the disturbance. The final goal of reclamation is to restore the character of the land and water to its pre-disturbance condition. The operator is generally not responsible for achieving full ecological restoration of the site. Instead, the operator must achieve the short-term stability, visual, hydrological, and productivity objectives of the surface management agency and take steps necessary to ensure that long-term objectives will be reached through natural processes.

To achieve these objectives, remove any and all contaminants, scrap/trash, equipment, pipelines and powerlines (Contact service companies, allowing plenty of time to have the riggers and power lines and poles removed prior to reclamation, don't wait till the last day and try to get them to remove infrastructure). Strip and remove caliche, contour the location to blend with the surrounding landscape, re-distribute the native soils, provide erosion control as needed, rip and seed as specified in the original APD COA. This will apply to well pads, facilities, and access roads. Barricade access road at the starting point. If reserve pits have not reclaimed due to salts or other contaminants, submit a plan for approval, as to how you propose to provide adequate restoration of the pit area.

1. The Application for Permit to Drill or Reenter (APD, Form 3160-3). Surface Use Plan of Operations must include adequate measures for stabilization and reclamation of disturbed lands. Oil and Gas operators must plan for reclamation, both interim and final, up front in the APD process as per Onshore Oil and Gas Order No. 1.
2. For wells and/or access roads not having an approved plan, or an inadequate plan for surface reclamation (either interim or final reclamation), the operator must submit a proposal describing the procedures for reclamation. For interim reclamation, the appropriate time for submittal would be when filing the Well Completion or Recompletion Report and Log (Form 3160-4). For final reclamation, the appropriate time for submittal would be when filing the Notice of Intent, or the Subsequent Report of Abandonment, Sundry Notices and Reports on Wells (Form 3160-5). Interim reclamation is to be completed within 6 months of well completion, and final reclamation is to be completed within 6 months of well abandonment.
3. The operator must file a Subsequent Report Plug and Abandonment (Form 3160-5) following the plugging of a well.
4. Previous instruction had you waiting for a BLM specialist to inspect the location and provide you with reclamation requirements. If you have an approved Surface Use Plan of Operation and/or an approved Sundry Notice, you are free to proceed with reclamation as per approved APD. If you



have issues or concerns, contact a BLM specialist to assist you. It would be in your interest to have a BLM specialist look at the location and access road prior to the removal of reclamation equipment to ensure that it meets BLM objectives. Upon conclusion submit a Form 3160-5, Subsequent Report of Reclamation. This will prompt a specialist to inspect the location to verify work was completed as per approved plans.

5. The approved Subsequent Report of Reclamation will be your notice that the native soils, contour and seedbed have been reestablished. If the BLM objectives have not been met the operator will be notified and corrective actions may be required.
6. It is the responsibility of the operator to monitor these locations and/or access roads until such time as the operator feels that the BLM objective has been met. If after two growing seasons the location and/or access roads are not showing the potential for successful revegetation, additional actions may be needed. When you feel the BLM objectives have been met submit a Final Abandonment Notice (FAN), Form 3160-5, stating that all reclamation requirements have been achieved and the location and/or access road is ready for a final abandonment inspection.
7. At this time the BLM specialist will inspect the location and/or access road. If the native soils and contour have been restored, and the revegetation is successful, the FAN will be approved, releasing the operator of any further liability of the location and/or access road. If the location and/or access road have not achieved the objective, you will be notified as to additional work needed or additional time being needed to achieve the objective.

If there are any questions, please feel free to contact any of the following specialists:

Jim Amos  
Supervisory Petroleum Engineering Tech  
575-234-5909 (Office), 575-361-2648 (Cell)

Arthur Arias  
Environmental Protection Specialist  
575-234-6230

Crisha Morgan  
Environmental Protection Specialist  
575-234-5987

Melissa Horn  
Environmental Protection Specialist  
575-234-5951

Kelsey Wade  
Environmental Protection Specialist  
575-234-2220

Trishia Bad Bear, Hobbs Field Station  
Natural Resource Specialist  
575-393-3612

**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 39668

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 39668
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
gcordero	None	8/20/2021