

Well Name: ATOM ANT FEDERAL	Well Location: T22S / R24E / SEC 10 / NWNW /	County or Parish/State: EDDY / NM
Well Number: 1	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM90505	Unit or CA Name:	Unit or CA Number:
US Well Number: 300152772100S2	Well Status: Inactive	Operator: EOG RESOURCES INCORPORATED

Accepted for record – NMOCD gc 3/18/2021

Notice of Intent

Type of Submission: Notice of Intent	Type of Action Plug and Abandonment
Date Sundry Submitted: 01/18/2021	Time Sundry Submitted: 10:20
Date proposed operation will begin: 03/01/2021	

**Procedure Description:** 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 7082 ft with 7 sx Class H cement on top to 7047 ft. This will cover Wolfcamp 3. Spot a 25 sx Class C cement plug from 4047 ft - 3898 ft. 4. Perforate at 2899 ft. Spot a 25 sx Class C cement plug from 2899 ft - 2750 ft. This will cover 9-5/8 inch casing. WOC and tag. 5. Spot a 25 sx Class C cement plug from 1704 ft - 1555 ft. This will cover top Bone Spring. 6. Spot a 25 sx Class C cement plug from 1295 ft - 1146 ft. This will cover top Delaware. 7. Spot a 25 sx Class C cement plug from 930 ft - 781 ft. This will cover top San Andres. 8. Perforate at 427 ft. Spot a 25 sx Class C cement plug from 427 ft - 278 ft. This will cover 13 3/8 inch casing shoe. WOC and tag. 9. Perforate at 50 ft. Spot a 15 sx Class C cement plug from 50 ft up to surface. Back fill as needed. 10. Cut off wellhead and weld on dry hole marker. Clean location as per regulated. Wellbore schematics attached.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Atom\_Ant\_Federal\_Com\_1\_Proposed\_WBD\_20210118101827.pdf
- Atom\_Ant\_Federal\_Com\_1\_Current\_WBD\_20210118101826.pdf

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Conditions of Approval

Specialist Review

Atom\_Ant\_Fed\_1\_20210121150319.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.

<b>Operator Electronic Signature:</b> HUERTA	<b>Signed on:</b> JAN 18, 2021 10:19 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> NOT ENTERED	

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> ZOTA M STEVENS	<b>BLM POC Title:</b> Petroleum Engineer
<b>BLM POC Phone:</b> 5752345998	<b>BLM POC Email Address:</b> ZSTEVENS@BLM.GOV
<b>Disposition:</b> Approved	<b>Disposition Date:</b> 01/21/2021
<b>Signature:</b> Zota Stevens	

Released to Imaging: 3/18/2021 2:41:26 PM

Atom ANT Federal Com #1 Proposed		Sec-TWN-RNG: FOOTAGES:	10-22S-24E 990' FNL & 990' FWL	API: GL: KB:	33-015-27721 4001
COMMENTS					
8th Plug: Surface Plug	A				
7th Plug: Sur. Csg. Shoe &	B				
6th Plug: San Andres Top					
5th Plug: Delaware Top					
4th Plug: Bone Spring Top					
3rd Plug: Int. csg. Shoe	C				
2nd Plug: Spacing Limitation					
1st Plug: CIBP + sks @ 7082'					
Bone Springs Pefs: 7132'-7306'					
Wolfcamp cmt Plug: 7359'-7500'					
CIBP w/ 25 sks cmt @ 7928'					
Canyon Perfs: 7978'-8028'					
PBTD: MD					
TD: 8.710 MD					
		Prepared by: KJP			
		12/22/2020			

  

CASING DETAIL									
#	HOLE SIZE	SIZE	WGHT	GRADE	Top	Bottom	Sx Cmt	Circ/TOC	TOC by
A	26	20		Conductor	0	40		CIRC	
B	17 1/2	13 3/8	54.5	ST&C	0	353	400	CIRC	
C	12 1/4	9 5/8	36	J-55	0	2,825	1585	CIRC	
D	8 3/4	7	23 & 26	N-80 & J-55	0	8710	1275	CIRC	

  

FORMATION TOPS									
	FORMATION	TOP		FORMATION	TOP				
	Queen	343							
	San Andres	856							
	Delaware	1221							
	Bone Springs	1630							
	Wolfcamp	7402							
	Canyon	7490							

  

Perforation Detail									
	FORMATION	Top	Bottom		Treatment				
	Canyon	7978	8028		Acid				
	Bone Springs	7132	7306		Acid & Frac				

  

Plugs									
#	SX	Class	Top	Bottom	A	Notes	Tag		
1	7	H	7047	7082	35	Top of Wolfcamp	N		
2	25	C	3898	4047	149	3000' Limitation Since Press	N		
3	25	C	2750	2899	149	Intermediate csg. Shoe	Y		
4	25	C	1555	1704	149	Top of Bone Spring	N		
5	25	C	1146	1295	149	Top of Delaware	N		
6	25	C	781	930	149	Top of San Andres	N		
7	25	C	278	427	149	Surface Casing Shoe & Queen	Y		
8	15	C	0	50	50	Surface Plug	Y		

  

ADDITIONAL DETAIL									
11/26/2013	CIBP + 25 sks cmt set at 7928'								
12/18/2013	Balanced cmt plug from 7359' - 7500' Sealing Wolfcamp formation								

1. MIRU all safety equipment as needed. NU BOP. POOH with production equipment.
2. Set CIBP at 7082ft. Spot 25sks of CI H from 7082- 6982'. (Pressure Test)
3. Spot 25 sx Class C from 4047'-3898'. **WOC & TAG**
4. Perf at 2899'. Squeeze 25sx Class C form 2899'-2750'. **WOC &TAG**
5. Spot 25 sx CI C from 1704'- 1555'.
6. Spot 25 sx CI C from 1295' – 1146'.
7. Sport 25 sx CI C from 427'-278'. **WOC & TAG**
8. Perf @ 50'. Spot and Sqz 15sx CI C from 50' up to surface. Back fill as needed.
9. Cut wellhead off and set Dry Hole marker.

**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/nm](http://www.blm.gov/nm)



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. 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, 575-361-2648 (Cell)

- Arthur Arias  
Environmental Protection Specialist  
575-234-6230

Henryetta Price  
Environmental Protection Specialist  
575-234-5951

Shelly Tucker  
Environmental Protection Specialist  
575-234-5979

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 20866

**CONDITIONS OF APPROVAL**

Operator:	EOG RESOURCES INC	P.O. Box 2267	Midland, TX79702	OGRID:	7377	Action Number:	20866	Action Type:	C-103F
OCD Reviewer									Condition
gcordero									None