

U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

10/18/2021

Well Name: AUDACIOUS 19 FED

Well Location: T25S / R33E / SEC 19 /  
LOT 3 / 32.1150013 / -103.6168727County or Parish/State: LEA /  
NM

Well Number: 501Y

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM110838

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002548983

Well Status: Drilling Well

Operator: EOG RESOURCES  
INCORPORATED**Notice of Intent**

Sundry ID: 2640112

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 10/15/2021

Time Sundry Submitted: 08:59

Date proposed operation will begin: 10/14/2021

**Procedure Description:** DRILLED THIS WELL TO KOP @ 9935', PICKED UP CURVE ASSEMBLY AND COULD NOT GET BACK IN THE CASING PAST 4648'. UTILIZED CLEANOUT ASSEMBLY AND MILLED UNSUCCESSFULLY. RAN CALIPER LOG, GOT DOWN TO 4692'. BELIEVE THAT THE 9 5/8" CASING HAS BACKED OFF AT 4627'. DECISION MADE TO PLUG THE WELL AND SKID THE RIG 33' TO THE EAST. PROPOSED PLUGGING PROCEDURE: 1. Set cement retainer at 4540' MD which is 2 joints above casing backoff and squeeze 50 bbls of cement. (Covers base of Salt down to 100' below 9 5/8" casing shoe). On top of retainer we will spot 100' of cement. 2. Set CIBP @ 3650'. Set 150' cement plug on top of CIBP. (Meets 3,000 ft b/w plug in cased hole requirement) 3. Set 300' cement plug @ 1,250'. Tag @ 950' or shallower. (Covers Surface Casing Shoe and Top of Salt) 4. Set 100' cement plug from 100 ft to surface. REFERENCE ATTACHED CURRENT AND PROPOSED WELLBORE DIAGRAMS

Accepted for Record Only

SUBJECT TO LIKE  
APPROVAL BY BLM**Surface Disturbance**

Is any additional surface disturbance proposed?: No

NMOCD 11/19/21

**NOI Attachments****Procedure Description**

Copy\_of\_Audacious\_19\_Fed\_501Y\_Drilling\_Well\_Sketch\_PA\_\_002\_\_20211018123231.xlsx

Audacious\_19\_Fed\_501H\_Proposed\_WBD\_\_P\_A\_20211018122830.doc

Well Name: AUDACIOUS 19 FED

Well Location: T25S / R33E / SEC 19 /  
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NM

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INCORPORATED**Conditions of Approval****Specialist Review**

Audacious\_19\_Fed\_501Y\_Sundry\_ID\_2640112\_20211018143317.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: KAY MADDOX

Signed on: OCT 18, 2021 12:33 PM

Name: EOG RESOURCES INCORPORATED

Title: Regulatory Specialist

Street Address: 5509 CHAMPIONS DR.

City: MIDLAND

State: TX

Phone: (432) 638-8475

Email address: KAY\_MADDOX@EOGRESOURCES.COM

**Field Representative**

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

**BLM Point of Contact**

BLM POC Name: LONG VO

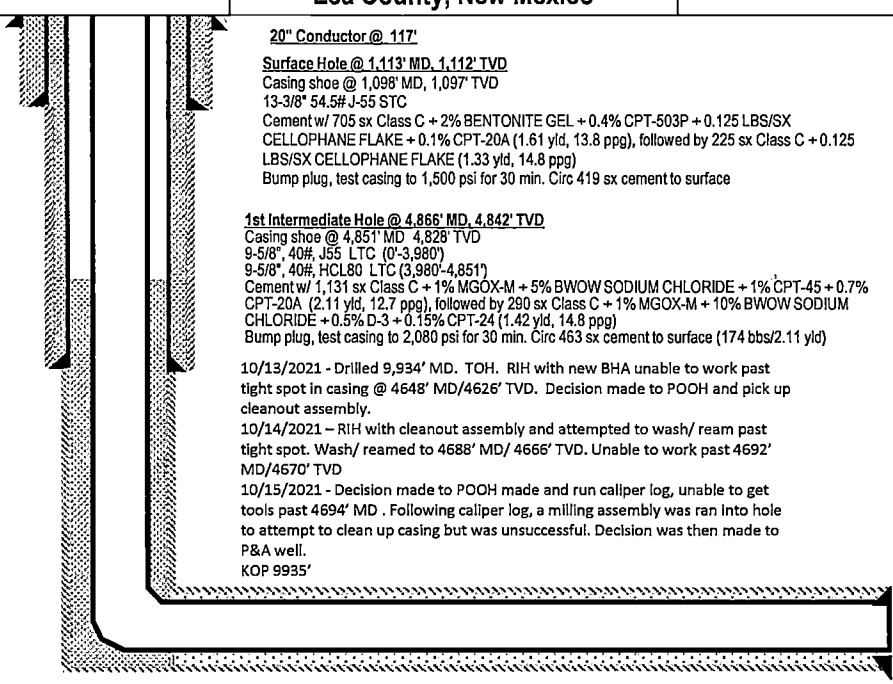
BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752345972

BLM POC Email Address: LVO@BLM.GOV

Disposition: Approved

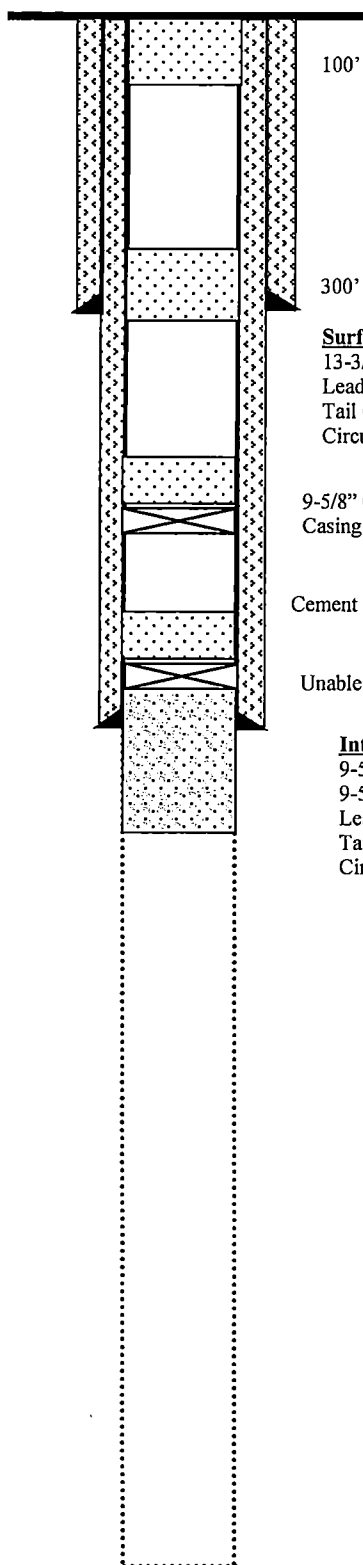
Disposition Date: 10/18/2021

eog resources		CURRENT WELL SKETCH								
DEPTH (ft)	MARKERS (KB)	OGRID: 7377 API: 30-025-48983 AFE: 112759 CONDUCTOR SPUD: 08/17/2021 BR SPUD: 9/08/2021 @ 09:30 hrs FRR: 6/3/2021 @ 05:00 hrs RIG: H&P 389	<b>Audacious 19 Fed #501H</b> <b>Undaunted (2nd Bone Spring Sand)</b> <b>Field</b> <b>Lea County, New Mexico</b>	SURF: 2246' FSL & 939' FWL LOC: Sec. 19 SURVEY: T-25-S, R-33-E GL: 3463' KB: 3489' ZERO: 26.0' AGL	CASING SECTION	HOLE SIZE	MW (ppg)	MUD	BHST (°F)	LOT (ppg)
2,000'	Rustler - 952' Tamarisk Anhydrite -1,032' Top Salt - 1,282'	 <p><b>20" Conductor @ 117'</b>  <b>Surface Hole @ 1,113' MD, 1,112' TVD</b>            Casing shoe @ 1,098' MD, 1,097' TVD            13-3/8" 54.5# J-55 STC            Cement w/ 705 sx Class C + 2% BENTONITE GEL + 0.4% CPT-503P + 0.125 LBS/SX CELLOPHANE FLAKE + 0.1% CPT-20A (1.61 yld, 13.8 ppg), followed by 225 sx Class C + 0.125 LBS/SX CELLOPHANE FLAKE (1.33 yld, 14.8 ppg)            Bump plug, test casing to 1,500 psi for 30 min. Circ 419 sx cement to surface</p> <p><b>1st Intermediate Hole @ 4,866' MD, 4,842' TVD</b>            Casing shoe @ 4,851' MD, 4,828' TVD            9-5/8", 40#, J55 LTC (0'-3,980')            9-5/8", 40#, HCL80 LTC (3,980'-4,851')            Cement w/ 1,131 sx Class C + 1% MGOX-M + 5% BWOW SODIUM CHLORIDE + 1% CPT-45 + 0.7% CPT-20A (2.11 yld, 12.7 ppg), followed by 290 sx Class C + 1% MGOX-M + 10% BWOW SODIUM CHLORIDE + 0.5% D-3 + 0.15% CPT-24 (1.42 yld, 14.8 ppg)            Bump plug, test casing to 2,080 psi for 30 min. Circ 463 sx cement to surface (174 bbs/2.11 yld)</p> <p>10/13/2021 - Drilled 9,934' MD. TOH. RIH with new BHA unable to work past tight spot in casing @ 4648' MD/4626' TVD. Decision made to POOH and pick up cleanout assembly.            10/14/2021 - RIH with cleanout assembly and attempted to wash/ ream past tight spot. Wash/ reamed to 4688' MD/ 4666' TVD. Unable to work past 4692' MD/4670' TVD            10/15/2021 - Decision made to POOH made and run caliper log, unable to get tools past 4694' MD. Following caliper log, a milling assembly was ran into hole to attempt to clean up casing but was unsuccessful. Decision was then made to P&amp;A well.            KOP 9935'</p>			Surface Section	17.5"	8.4	FW	86	N/A
3,000'					Intermediate Section	12-1/4"	9.9	Brine / Produced Water		
4,000'						10.2			117	
7,000'					Production Vertical	8-3/4"	8.7	Brine / Produced Water		
8,000'	Brushy Canyon - 7,463'								117	
9,000'	Bone Spring Lime - 9,059'						N/A			
10,000'	Leonard A - 9,119' Leonard B - 9,421' 1st Bone Spring Sand - 10,021' 2nd Bone Spring Shale - 10,240' 2nd Bone Spring Sand - 10,534' PTD - ~10,515'	Production Lateral	8-1/2"	8.7	OBM					
			9.1			140				
					Drig Eng:	J. Dunn				
					Date:	10/12/2021				
<b>Comments:</b>										
<b>Directions to Location:</b> FROM THE INTERSECTION OF HWY 18 AND HWY 128 IN JAL NM; GO WEST ON HWY 128 FOR 30 MILES, TURN LEFT (SOUTH) ON CR 1 & GO 5.7 MILES, TURN LEFT (EAST) ON COTTON DRAW ROAD & GO 3.6 MILES, TURN LEFT (EAST) & GO 0.25 OF A MILE, TURN RIGHT (SOUTH) & GO 0.1 OF A MILE, TURN LEFT (EAST) ONTO THE AUDACIOUS 19 FED #501H, #502H, #503H & #504H LOCATION										

**EOG Resources**  
**Audacious 19 Fed #501H**  
**LWR Bone Spring**  
 30-025-48983  
 2246' FSL & 939' FWL  
 Section 19 T25S R33E  
 Lea County, New Mexico

**Plug and Abandon WBD**  
**10/14/2021**

Formation Top	TVD
Rustler	869
Top of Salt	1207
Base of Salt	4651
Lamar	4879
Bell Canyon	4909
Cherry Canyon	5910
Brushy Canyon	7452
Bone Spring Lime	9009
Leonard A	9091
Leonard B	9439
First BS Sand	10021
Second BS Shale	10240
Second BS Sand	10534
Second BS B Sd	10659



100' Cement plug, TOC @ surface (14.8 ppg / 1.33 yld)

300' Cement plug, TOC @ 950' MD (14.8 ppg / 1.33 yld)

**Surface Casing @ 1098' MD/TVD**

13-3/8" 54.5# J55 STC  
 Lead Cement: 202 bbls (13.8 ppg / 1.61 yld)  
 Tail Cement: 53 bbls (14.8 ppg / 1.33 yld)  
 Circulated 120 bbls CTS

9-5/8" CIBP set @ ±3650' w/ 150' Cement plug on top  
 Casing pressure tested to 1000 psi for 30 min

Cement Retainer set @ 4540' MD – Squeeze 50 BBL of CMT (14.8 ppg / 1.33 yld) below, 100' on top)

Unable to work past 4692' MD/4670' TVD

**Intermediate Casing @ 4851'/4828'**

9-5/8" 40# J55 LTC (0' – 3979')  
 9-5/8" 40# HCL80 LTC (3979' – 4851')  
 Lead Cement: 426 bbls (12.7 ppg / 2.11 yld)  
 Tail Cement: 46 bbls (14.8 ppg / 1.42 yld)  
 Circulated 174 bbls CTS

10/13/2021 - Drilled 9,934' MD. TOH. RIH with new BHA unable to work past tight spot in casing @ 4648' MD/4626' TVD. Decision made to POOH and pick up cleanout assembly.

10/14/2021 – RIH with cleanout assembly and attempted to wash/ ream past tight spot. Wash/ reamed to 4688' MD/ 4666' TVD.

10/15/2021 - Decision made to POOH made and run caliper log, unable to get tools past 4694' MD. Following caliper log, a milling assembly was ran into hole to attempt to clean up casing but was unsuccessful. Decision was then made to P&A well.

8-3/4" Hole Section TD at 9935' MD/ 9827' TVD  
 Final TD in Leonard B

**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.

**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 56689

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 56689
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kfortner	Like approval from BLM	11/19/2021