

Well Name: BOIS D` ARC DIVIDE 22	Well Location: T21N / R5W / SEC 22 / NWSE / 36.032863 / -107.348491	County or Parish/State: SANDOVAL / NM
Well Number: 3	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM105533	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004320983	Well Status: Producing Oil Well	Operator: EOG RESOURCES INCORPORATED

Notice of Intent

Sundry ID: 2714724

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 02/09/2023	Time Sundry Submitted: 04:32
Date proposed operation will begin: 02/09/2023	

Procedure Description: EOG Resources, Inc., requests to plug and abandon the BOIS D ARC DIVIDE 22 #003 per attached procedure, existing & proposed wellbore and reclamation plan.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- EOG\_Bois\_D\_Arc\_Divide\_22\_003\_P\_A\_Procedure\_20230209103747.pdf
- Bois\_D\_Arc\_Divide\_22\_003\_Final\_Reclamation\_Plan\_20230209103728.pdf
- Bois\_D\_Arc\_Divide\_22\_003\_Existing\_Wellbore\_Diagram\_20230209103728.pdf
- Bois\_D\_Arc\_Divide\_22\_003\_Proposed\_Wellbore\_Diagram\_20230209103728.pdf

Well Name: BOIS D ARC DIVIDE 22	Well Location: T21N / R5W / SEC 22 / NWSE / 36.032863 / -107.348491	County or Parish/State: SANDOVAL / NM
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Lease Number: NMNM105533	Unit or CA Name:	Unit or CA Number:
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Conditions of Approval

Additional

21N05W22JKmv\_Bois\_D\_Arc\_Divide\_22\_003\_20230223105501.pdf

Authorized

2714724\_NOIA\_22\_3\_3004320983\_KR\_02232023\_20230223112201.pdf

General\_Requirement\_PxA\_20230223111413.pdf

Operator

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

Operator Electronic Signature: LACEY GRANILLO	Signed on: FEB 09, 2023 04:32 PM
Name: EOG RESOURCES INCORPORATED	
Title: Contractor Regulatory Specialist	
Street Address: 104 SOUTH FOURTH STREET	
City: ARTESIA	State: NM
Phone: (575) 909-5284	
Email address: LACEY_GRANILLO@EOGRESOURCES.COM	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5055647742	BLM POC Email Address: krennick@blm.gov
Disposition: Approved	Disposition Date: 02/23/2023
Signature: Kenneth Rennick	

## **EOG Resources**

### **Plug And Abandonment Procedure**

#### **Bois D Arc Divide 22 #003**

1915' FSL & 1970' FEL, Section 22, 21N, 05W

Sandoval County, NM / API 30-043-20983

1. Hold pre-job safety meeting. Comply with all NMOCD, BLM safety and environmental regulations. Test rig anchors prior to moving in rig if not rigged to base beam.
2. Check casing, tubing, and Bradenhead pressures.
3. Remove existing piping on casing valve. RU blow lines from casing valves and begin blowing down casing pressure. Kill well as necessary. Ensure well is dead or on a vacuum.
4. ND wellhead and NU BOP. Function test BOP.
5. P/U 5-1/2" bit or casing scraper on 2-3/8" work string and round trip as deep as possible above top perforation at 3,637'.
6. P/U 5-1/2" CR, TIH and set CR at +/- 3,587'. Pressure test tubing to 1000 psi. Sting out of CR. Load hole, and pressure test casing to 800 psi. If casing does not test, then spot or tag subsequent plugs as appropriate. POOH w/ tubing.
7. Rig up to pump cement down tubing. Pump water to establish rate down tubing.

8. Circulate wellbore with 9.5 ppg salt gel.

**NOTE: All Plugs Include 100% excess outside casing and 50% Excess inside casing**

9. Plug 1 **(Point Lookout Perforations and Formation Top 3,587'-3,537', 6 Sacks Type I/II Cement)**

Mix 6 sx Type I/II cement and spot a balanced plug inside casing to cover the Point Lookout perforations and formation top.

10. Plug 2 **(Menefee Formation Top 2,480'-2,330', 17 Sacks Type I/II Cement)**

Mix 17 sx Type I/II cement and spot a balanced plug inside casing to cover the Menefee formation top.

11. Plug 3 **(Cliff House Formation Top 2,260'-2,110', 17 Sacks Type I/II Cement)**

Mix 17 sx Type I/II cement and spot a balanced plug inside casing to cover the Cliff House formation top.

12. Plug 4 **(Pictured Cliffs Formation Top 1,526'-1,376', 17 Sacks Type I/II Cement)**

Mix 17 sx Type I/II cement and spot a balanced plug inside casing to cover the Pictured Cliffs formation top.

13. Plug 5 **(Fruitland and Kirtland Formation Tops 1,280'-1,130', 17 Sacks Type I/II Cement)**

Mix 17 sx Type I/II cement and spot a balanced plug inside casing to cover the Fruitland and Kirtland formation tops.

**14. Plug 6 (Ojo Alamo Formation Top 1,100'-950', 17 Sacks Type I/II Cement)**

Mix 17 sx Type I/II cement and spot a balanced plug inside casing to cover the Ojo Alamo formation top.

**15. Plug 7 (Surface Casing Shoe 240'-Surface, 73 Sacks Type I/II Cement)**

Attempt to pressure test the bradenhead annulus to 300 psi; note the volume to load. If BH annulus holds pressure, then establish circulation out casing valve with water. Mix approximately 73 sx cement and spot a balanced plug from 240' to surface, circulate good cement out of casing valve. TOH and LD tubing. Shut well in and WOC. If BH annulus does not test, then perforate at the appropriate depth and attempt to circulate cement to surface filling the casing from 240' and the annulus from the squeeze holes to surface. Shut in well and WOC.

**16. ND cementing valves and cut off wellhead. Fill annuli with cement as necessary. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. RD, MOL and restore location per BLM stipulations.**

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## Existing Wellbore Diagram

EOG Resources INC  
Bois D Arc Divide 22 #003  
API: 30-043-20983  
Sandoval County, New Mexico

### Surface Casing

8.625" 24# @ 190'  
OH: 12.25"

### Formation

Ojo Alamo - 1050'  
Fruitland - 1230'  
Pictured Cliffs - 1476'  
Lewis - 1562'  
Cliff House - 2210'  
Menefee - 2430'  
Point Lookout - 3753'

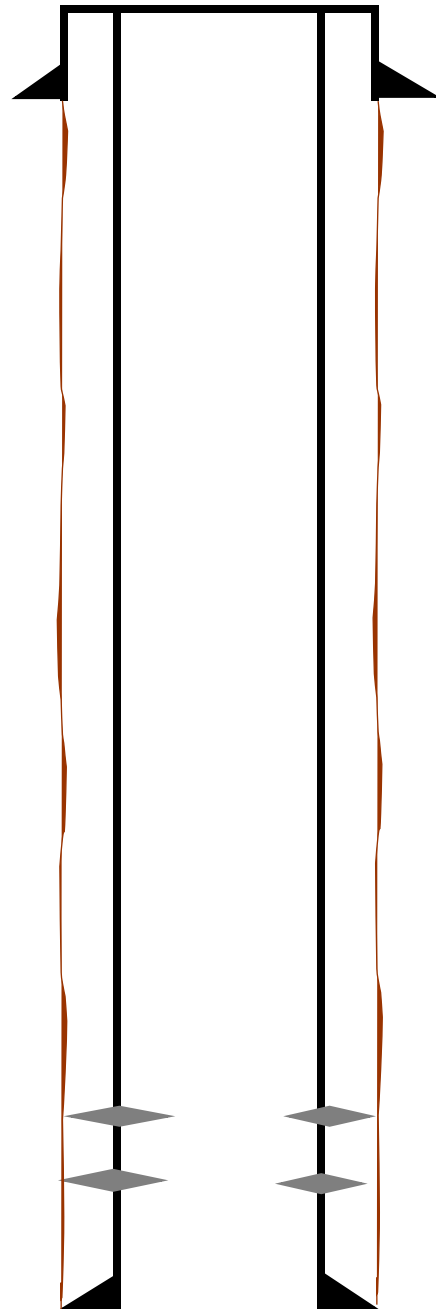
Mesaverde

### Perforations

3637 feet - 3723 feet

Production Casing 5.5"  
15.5# @ 4070' OH:  
7.875"

TD @ 4075' MD  
PBTD @ 4006' MD



## Proposed Wellbore Diagram

EOG Resources INC  
Bois D Arc Divide 22 #003  
API: 30-043-20983  
Sandoval County, New Mexico

### Surface Casing

8.625" 24# @ 190'  
OH: 12.25"

### Formation

Ojo Alamo - 1050'  
Fruitland - 1230'  
Pictured Cliffs - 1476'  
Lewis - 1562'  
Cliff House - 2210'  
Menefee - 2430'  
Point Lookout - 3753'

### Plug 5

1280 feet - 1130 feet  
150 foot plug  
17 Sacks of Type I/II Cement

### Plug 4

1526 feet - 1376 feet  
150 foot plug  
17 Sacks of Type I/II Cement

### Plug 3

2260 feet - 2110 feet  
150 foot plug  
17 Sacks of Type I/II Cement

### Plug 2

2480 feet - 2330 feet  
150 foot plug  
17 Sacks of Type I/II Cement

### Plug 1

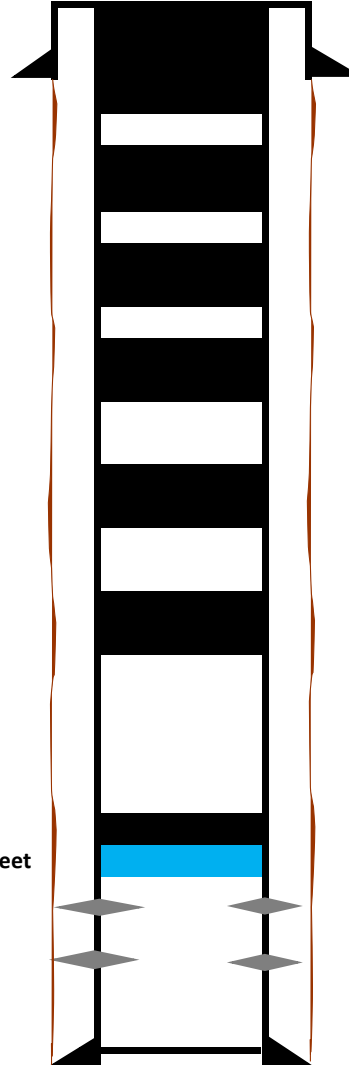
3587 feet - 3537 feet  
50 foot plug  
6 sacks of Type I/II Cement

### Perforations

3637 feet - 3723 feet

Production Casing 5.5"  
15.5# @ 4070' OH:  
7.875"

Retainer @ 3587 feet



### Plug 7

240 feet - Surface  
240 foot plug  
73 Sacks of Type I/II Cement

### Plug 6

1100 feet - 950 feet  
150 foot plug  
17 Sacks of Type I/II Cement

TD @ 4075' MD  
PBTD @ 4006' MD

**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
FARMINGTON DISTRICT OFFICE  
6251 COLLEGE BLVD.  
FARMINGTON, NEW MEXICO 87402**

AFMSS 2 Sundry ID 2714724

Attachment to notice of Intention to Abandon

Well: Bois D'Arc Divide 22 3

**CONDITIONS OF APPROVAL**

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. The following modifications to your plugging program are to be made:
  - a. Bring the top of Plug #6 (Ojo Alamo) up to 850' to cover BLM pick for the Ojo Alamo top at 950'.
3. Farmington Office is to be notified at least 24 hours before the plugging operations commence at (505) 564-7750.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.

K. Rennick 2/23/2023



**GENERAL REQUIREMENTS FOR  
PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES  
FARMINGTON FIELD OFFICE**

- 1.0 The approved plugging plans may contain variances from the following minimum general requirements.
- 1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.
  - 1.2 Requirements may be added to address specific well conditions.
- 2.0 Materials used must be accurately measured. (densometer/scales)
- 3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.
- 3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.
- 4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.
- 4.1 The cement shall be as specified in the approved plugging plan.
  - 4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.
  - 4.3 Surface plugs may be no less than 50' in length.
  - 4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.
  - 4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.
  - 4.6 **A cement bond log or other accepted cement evaluation tool is required to be run if one had not been previously ran or cement did not circulate to surface during the original casing cementing job or subsequent cementing jobs.**

5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by tagging with the work string.

- 5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.
- 5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.
- 5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.
- 5.4 If perforations are required below the surface casing shoe, a 30 minute minimum wait time will be required to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. Short or long term venting may be necessary to evacuate trapped gas. **If only a water flow occurs with no associated gas, shut well in and record the pressures. Contact the Engineer as it may be necessary to change the cement weight and additives.**

6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.

- 6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.
- 6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.

7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain H<sub>2</sub>S.

8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), five copies, with the Field Manager, Bureau of Land Management, 6251 College Blvd., Suite A, Farmington, NM 87402. The report should show the manner in which the plugging work was carried out, the extent, by depth(s), of cement plugs placed, and the size and location, by depth(s), of casing left in the well. Show date well was plugged.

9.0 All permanently abandoned wells are to be marked with a permanent monument as specified in 43 CFR 3162.6(d). Unless otherwise approved.

10.0 If this well is located in a Specially Designated Area (SDA), compliance with the appropriate seasonal closure requirements will be necessary.

All of the above are minimum requirements. Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1. You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

(October 2012 Revision)

# BLM FLUID MINERALS P&A Geologic Report

**Date Completed:** 2/23/2023

Well No. Bois D' Arc Divide 22 #003 (API# 30-043-20983)		Location	1915	FSL	&	1970	FEL
Lease No. NMNM105533		Sec. 22	T21N			R05W	
Operator EOG Resources Inc.		County	Sandoval		State	New Mexico	
Total Depth 4075'	PBTD 4006'	Formation Mesaverde (Menefee), Fruitland Coal					
Elevation (GL)		Elevation (KB)					

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose					
Nacimiento			Surface	950	Surface/possible freshwater sands
Ojo Alamo Ss			950	1116	Aquifer (possible freshwater)
Kirtland Shale			1116	1230	Possible gas
Fruitland			1230	1476	Coal/Gas/Water
Pictured Cliffs Ss			1476	1562	Probable Gas
Lewis Shale			1562	2210	
Chacra					
Cliff House Ss (La Ventana)			2210	2924	O&G
Menefee			2924	3753	O&G
Point Lookout Ss			3753	PBTD	O&G
Mancos Shale					
Gallup					
Greenhorn					
Graneros Shale					
Dakota Ss					
Morrison					

Remarks:

P & A

Reference Well:

1) **Formation Tops**

Same

- Bring the top of Plug #6 (Ojo Alamo) up to 850' to cover BLM pick for the Ojo Alamo top at 950'.

- Mesaverde (Menefee) perfs 3637' – 3723'.

Prepared by: Chris Wenman

**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 189876

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 189876
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	2/24/2023
kpickford	Adhere to BLM approved COAs and plugs. See BLM COAs and GEO report.	2/24/2023