

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

<b>Well Name:</b> BOIS D` ARC DIVIDE 22	<b>Well Location:</b> T21N / R5W / SEC 22 / SESE / 36.0295024 / -107.343276	<b>County or Parish/State:</b> SANDOVAL / NM
<b>Well Number:</b> 2	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM105533	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3004320982	<b>Well Status:</b> Gas Well Shut In	<b>Operator:</b> EOG RESOURCES INCORPORATED

### Notice of Intent

**Sundry ID:** 2714710

**Type of Submission:** Notice of Intent

**Type of Action:** Plug and Abandonment

**Date Sundry Submitted:** 02/09/2023

**Time Sundry Submitted:** 04:30

**Date proposed operation will begin:** 02/09/2023

**Procedure Description:** EOG Resources, Inc., requests to plug and abandon the BOIS D ARC DIVIDE 22 #002 per attached procedure, existing & proposed wellbore and reclamation plan.

### Surface Disturbance

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

### NOI Attachments

**Procedure Description**

Bois\_D\_Arc\_Divide\_22\_002\_Proposed\_Wellbore\_Diagram\_20230209103602.pdf

EOG\_Bois\_D\_Arc\_Divide\_22\_002\_P\_A\_Procedure\_20230209103602.pdf

Bois\_D\_Arc\_Divide\_22\_002\_Final\_Reclamation\_Plan\_20230209103602.pdf

Bois\_D\_Arc\_Divide\_22\_002\_Existing\_Wellbore\_Diagram\_20230209103602.pdf

Well Name: BOIS D ARC DIVIDE 22

Well Location: T21N / R5W / SEC 22 / SESE / 36.0295024 / -107.343276

County or Parish/State: SANDOVAL / NM

Well Number: 2

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM105533

Unit or CA Name:

Unit or CA Number:

US Well Number: 3004320982

Well Status: Gas Well Shut In

Operator: EOG RESOURCES INCORPORATED

### Conditions of Approval

#### Additional

21N05W22PKmv\_Bois\_D\_Arc\_Divide\_22\_002\_20230223101054.pdf

#### Authorized

General\_Requirement\_PxA\_20230223104929.pdf

2714710\_NOIA\_22\_2\_3004320982\_KR\_02232023\_20230223104856.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 04:30 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 #002

690' FSL & 615' FEL, Section 22, 21N, 05W

Sandoval County, NM / API 30-043-20982

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 to existing CIBP at 3650'. TOO. L/D scraper.
6. TIH to 3650'. Rig up to pump cement down tubing. Pump water to establish rate down tubing.
7. Circulate wellbore with 9.5 ppg salt gel.

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

8. Plug 1 (**Point Lookout Perforations and Formation Top 3,650'-3,600', 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.

9. Plug 2 (**Menefee Formation Top 2,997'-2,847', 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.

10. Plug 3 (**Cliff House Formation Top 2,215'-2,065', 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.

11. P/U 5-1/2" CR, TIH and set CR at +/- 1,408'.

12. Plug 4 (**Fruitland Perforations. Pictured Cliffs Formation Top ~1,458'-', 1,408 25 Sacks Type I/II Cement**)

While stung into retainer. Mix 25 sx Type I/II cement. Squeeze a plug through the retainer and into the Fruitland Perforations to cover the Fruitland Perforations and Pictured Cliffs formation top.

13. Plug 5 (**Fruitland, and Ojo Alamo Formation Tops 1,408'-950', 52 Sacks Type I/II Cement**)

Sting out of the retainer. Mix 52 sx Type I/II cement and pump a balanced plug on top of the retainer to cover the Fruitland and Ojo Alamo formation tops.

**14. Plug 6 (Surface Casing Shoe 244'-Surface, 74 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 74 sx cement and spot a balanced plug from 244' 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 244' and the annulus from the squeeze holes to surface. Shut in well and WOC.

15. 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.

# Existing Wellbore Diagram

EOG Resources INC  
Bois D Arc Divide 22 #002  
API: 30-043-20982  
Sandoval County, New Mexico

### Surface Casing

8.625" 24# @ 194 ft  
OH: 12.25"

### Formation

Ojo Alamo - 1050'  
Fruitland - 1232'  
Pictured Cliffs - 1473'  
Lewis - 1561'  
Cliff House - 2165'  
Menefee - 2947'  
Point Lookout - 3768'

### Fruitland Perforations

1458 feet - 1464 feet

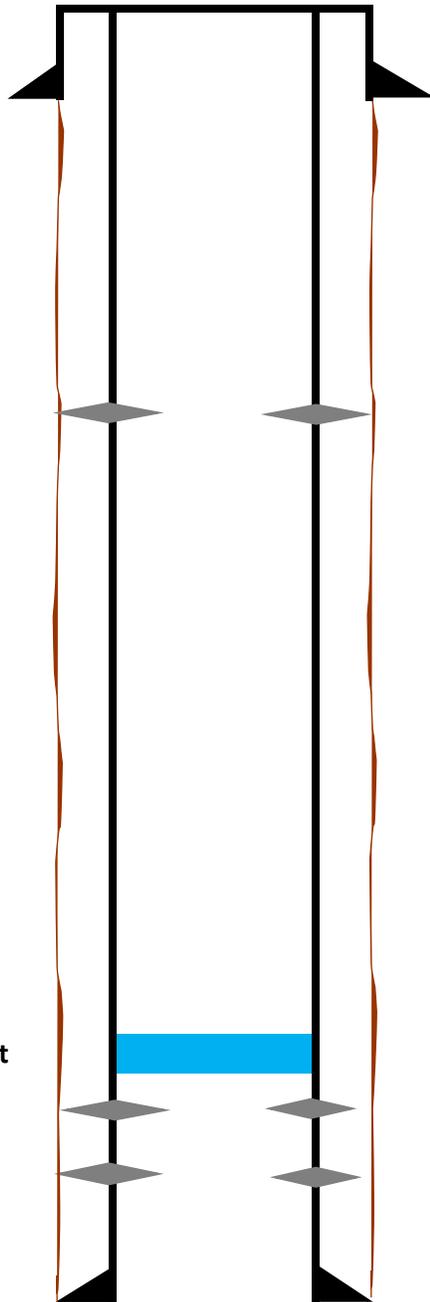
### Mesa Verde Perforations

3695 feet - 3766 feet

CIBP @ 3650 feet

### Production Casing

5.5" 15.5# @ 4060 feet  
OH: 7.875"



TD @ 4066 feet  
PBTB @ 4008 feet

# Proposed Wellbore Diagram

EOG Resources INC  
Bois D Arc Divide 22 #002  
API: 30-043-20982  
Sandoval County, New Mexico

**Plug 5**  
1408 feet - 950 feet  
458 foot plug  
52 Sacks of Type I/II Cement

**Plug 4**  
Approx. 1458 feet - 1408 feet  
Squeeze  
25 Sacks of Type I/II Cement

**Plug 3**  
2215 feet - 2065 feet  
150 foot plug  
17 Sacks of Type I/II Cement

**Plug 2**  
2997 feet - 2847 feet  
150 foot plug  
17 Sacks of Type I/II Cement

**Plug 1**  
3650 feet - 3600 feet  
50 foot plug  
6 sacks of Type I/II Cement

**Fruitland Perforations**  
1458 feet - 1464 feet

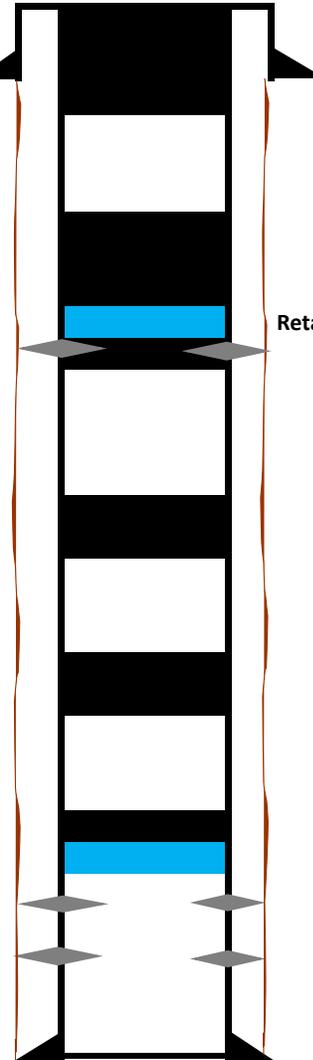
**Mesa Verde Perforations**  
3695 feet - 3766 feet

**Surface Casing**  
8.625" 24# @ 194 ft  
OH: 12.25"

**Formation**  
Ojo Alamo - 1050'  
Fruitland - 1232'  
Pictured Cliffs - 1473'  
Lewis - 1561'  
Cliff House - 2165'  
Menefee - 2947'  
Point Lookout - 3768'

CIBP @ 3650 feet

**Production Casing**  
5.5" 15.5# @ 4060 feet  
OH: 7.875"



**Plug 6**  
244 feet - Surface  
244 foot plug  
74 Sacks of Type I/II Cement

**Fruitland Perforations**  
1458 feet - 1464 feet

TD @ 4066 feet  
PBD @ 4008 feet

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

AFMSS 2 Sundry ID 2714710

Attachment to notice of Intention to Abandon

Well: Bois D'Arc Divide 22 2

**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. 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 #002 (API# 30-043-20982)	Location	690	FSL	&	615	FEL
Lease No. NMNM105533	Sec. 22	T21N			R05W	
Operator EOG Resources Inc.	County	Sandoval		State	New Mexico	
Total Depth 4066'	PBTD 4008'	Formation Mesaverde (Menefee), Fruitland Coal				
Elevation (GL)		Elevation (KB) 7250'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose					
Nacimiento			Surface	1050	Surface/possible freshwater sands
Ojo Alamo Ss			1050	1120	Aquifer (possible freshwater)
Kirtland Shale			1120	1232	Possible gas
Fruitland			1232	1473	Coal/Gas/Water
Pictured Cliffs Ss			1473	1561	Probable Gas
Lewis Shale			1561	2165	
Chacra					
Cliff House Ss (La Ventana)			2165	2947	Gas
Menefee			2947	3768	Gas
Point Lookout Ss			3768	PBTD	Gas
Mancos Shale					
Gallup					
Greenhorn					
Graneros Shale					
Dakota Ss					
Morrison					

Remarks:

P &amp; A

- Fruitland Coal perfs 1458' – 1464'.
- Mesaverde (Menefee) perfs 3695' – 3766'. CIBP @ 3650' since 1/27/2005.

Reference Well:

1) **Formation Tops**  
Same

**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 189857

**CONDITIONS**

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 189857
	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