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

Sundry Print Report

02/23/2023

Well Name: BOIS D` ARC SWD

Well Location: T21N / R5W / SEC 22 / NESE / 36.03314 / -107.344091

County or Parish/State: SANDOVAL / NM

Well Number: 1

Type of Well: OTHER

Allottee or Tribe Name:

Lease Number: NMNM105533

Unit or CA Name:

Unit or CA Number:

US Well Number: 3004320981

Well Status: Water Disposal Well

Operator: EOG RESOURCES INCORPORATED

Notice of Intent

Sundry ID: 2714942

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 02/09/2023

Time Sundry Submitted: 05:10

Date proposed operation will begin: 02/09/2023

Procedure Description: EOG Resources, Inc., requests to plug and abandon the Bois D Arc Divide 22 #100 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_100_Proposed_Wellbore_Diagram_20230209170906.pdf

Bois_D_Arc_divide_22_100_Final_Reclamation_Plan_20230209170906.pdf

Bois_D_Arc_Divide_22_100__Existing_Wellbore_Diagram_20230209170906.pdf

EOG_Bois_D_Arc_divide_22_100_P_A_Procedure_20230209170906.pdf

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Conditions of Approval

Additional

21N05W22IKd_Bois_D_Arc_Divide_22_100_SWD_20230223144843.pdf

Authorized

2714942_NOIA_SWD1_3004320981_KR_02232023_20230223152135.pdf

General_Requirement_PxA_20230223151834.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 05:09 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: Accepted

Disposition Date: 02/23/2023

Signature: Kenneth Rennick

EOG Resources

Plug And Abandonment Procedure

Bois D Arc Divide 22 #100

2025' FSL & 675' FEL, Section 22, 21N, 05W

Sandoval County, NM / API 30-043-20981

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 7" bit or casing scraper on 2-3/8" work string, release packer @ 5850' and round trip as deep as possible above top perforation at 6,058'.

6. P/U 7" CR, TIH and set CR at +/- 6,008'. 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 **(Lower Dakota Perforations and Formation Top 6,008'-5,899', 21 Sacks Type I/II Cement)**

   Mix 21 sx Type I/II cement and spot a balanced plug inside casing to cover the Lower Dakota perforations and formation top.

10. Plug 2 **(Dakota Formation Top 5,718'-5,568', 29 Sacks Type I/II Cement)**

    Mix 29 sx Type I/II cement and spot a balanced plug inside casing to cover the Dakota formation top.

11. Plug 3 **(Gallup Formation Top 4,640'-4,490', 29 Sacks Type I/II Cement)**

    Mix 29 sx Type I/II cement and spot a balanced plug inside casing to cover the Gallup formation top.

12. Plug 4**(Mancos Formation Top 4,108'-3,958', 29 Sacks Type I/II Cement)**

    Mix 29 sx Type I/II cement and spot a balanced plug inside casing to cover the Mancos formation top.

13. Plug 5**(Point Lookout Formation Top 3,801'-3,651', 29 Sacks Type I/II Cement)**

    Mix 29 sx Type I/II cement and spot a balanced plug inside casing to cover the Point Lookout formation top.

14. Plug 6**(Menefee Formation Top 2,972'-2,822', 29 Sacks Type I/II Cement)**

    Mix 29 sx Type I/II cement and spot a balanced plug inside casing to cover the Menefee formation top.

15. Plug 7**(Cliff House Formation Top 2,236'-2,086', 29 Sacks Type I/II Cement)**

    Mix 29 sx Type I/II cement and spot a balanced plug inside casing to cover the Cliff House formation top.

16. Plug 8 **(Pictured Cliffs, Fruitland, Kirtland, and Ojo Alamo Formation Tops 1,489'-840', 122 Sacks Type I/II Cement)**

    Mix 122 sx Type I/II cement and spot a balanced plug inside casing to cover the Cliff House, Fruitland, Kirtland, and Ojo Alamo formation tops.

17. Plug 9 **(Surface Casing Shoe 380'-Surface, 140 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 140 sx cement and spot a balanced plug from 380' 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 380' and the annulus from the squeeze holes to surface. Shut in well and WOC.

18. 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.

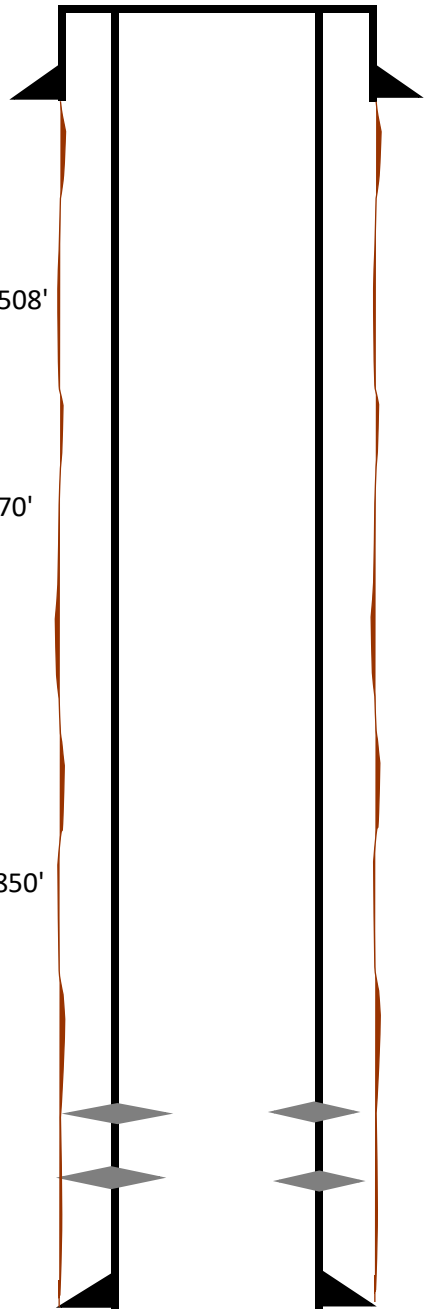
Existing Wellbore Diagram

EOG Resources INC
Bois D Arc Divide 22 #100
API: 30-043-20981
Sandoval County, New Mexico

Surface Casing

9.625" 36# @ 332 ft
OH: 12.25"

Formation
Ojo Alamo - 940'
Kirtland - 1093'
Fruitland - 1242'
Pictured Cliffs - 1439'
Cliff House - 2186'
Menefee - 2922'
Point Lookout - 3751'
Mancos - 4058'
Gallup - 4590'
Dakota - 5668'
L. Dakota - 5999'



Production Casing
7" 23# @ 6135 feet
OH: 8.75"

MV Perforations
6058 feet - 6093 feet

TD- 6135'
PBTD- 6095'

Proposed Wellbore Diagram

EOG Resources INC
Bois D Arc Divide 22 #100
API: 30-043-20981
Sandoval County, New Mexico

Surface Casing
9.625" 36# @ 332 ft
OH: 12.25"

Plug 5
3801 feet - 3651 feet
150 foot plug
29 Sacks of Type I/II Cement

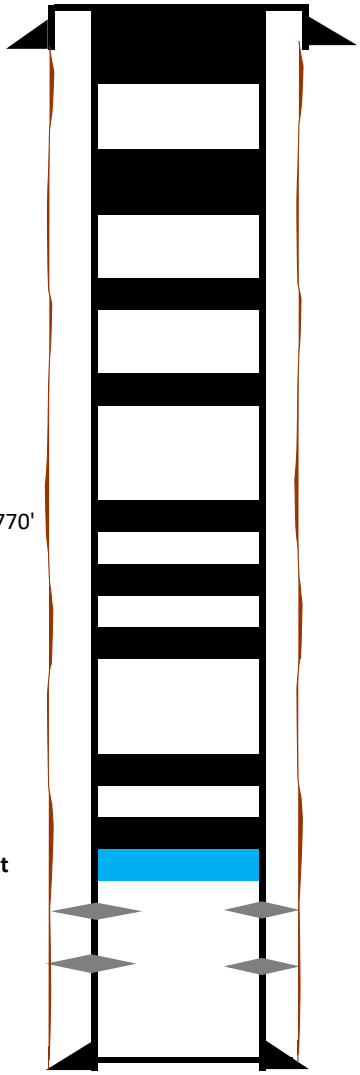
Formation
Ojo Alamo - 940'
Kirtland - 1093'
Fruitland - 1242'
Pictured Cliffs - 1439'
Cliff House - 2186'
Menefee - 2922'
Point Lookout - 3751'
Mancos - 4058'
Gallup - 4590'
Dakota - 5668'
L. Dakota - 5999'

Plug 4
4108 feet - 3958 feet
150 foot plug
29 Sacks of Type I/II Cement

Plug 3
4640 feet - 4490 feet
150 foot plug
29 Sacks of Type I/II Cement

Plug 2
5718 feet - 5568 feet
150 foot plug
29 Sacks of Type I/II Cement

Plug 1
6008 feet - 5899 feet
109 foot plug
21 sacks of Type I/II Cement



Plug 9
380 feet - Surface
380 foot plug
140 Sacks of Type I/II Cement

Plug 8
1489 feet - 840 feet
649 foot plug
122 Sacks of Type I/II Cement

Plug 7
2236 feet - 2086 feet
150 foot plug
29 Sacks of Type I/II Cement

Plug 6
2972 feet - 2822 feet
150 foot plug
29 Sacks of Type I/II Cement

Perforations
6058 feet - 6093 feet

Production Casing
7" 23# @ 6135 feet
OH: 8.75"

TD- 6135'

PBTD- 6095'

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

AFMSS 2 Sundry ID 2714942

Attachment to notice of Intention to Abandon

Well: Bois D'Arc Divide SWD 1

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_2S.

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.

BLM FLUID MINERALS
P&A Geologic Report

Date Completed: 2/23/2023

Well No. Bois D' Arc Divide 22 #100 SWD (API# 30-043-20981)		Location	750 FSL	&	1650 FWL	
Lease No. NMNM105533		Sec. 22	T21N		R05W	
Operator EOG Resources Inc.		County	Sandoval	State	New Mexico	
Total Depth 3848'	PBTD 3825'	Formation	Dakota			
Elevation (GL)		Elevation (KB)	7308'			

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose					
Nacimiento			Surface	940	Surface/possible freshwater sands
Ojo Alamo Ss			940	1093	Aquifer (possible freshwater)
Kirtland Shale			1093	1204	Possible gas
Fruitland			1204	1439	Coal/Gas/Water
Pictured Cliffs Ss			1439	1544	Probable Gas
Lewis Shale			1544	2186	
Chacra					
Cliff House Ss (La Ventana)			2186	2922	O&G
Menefee			2922	3751	O&G
Point Lookout Ss			3751	4058	O&G
Mancos Shale			4058	4590	Probable O&G
Gallup			4590	5668	Probable O&G
Greenhorn			5668	5708	Possible O&G
Graneros Shale			5708	5758	Possible O&G
Dakota Ss			5758	PBTD	Water
Morrison					

Remarks:
P & A

- Sundry ID: 2714942
- BLM database has well name as the Bois D' Arc SWD #001. Operator and NMOCD have name as listed at the top of this document. API # matches.
- Dakota perfs 6058' – 6093'.

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 190178

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 190178
	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