NMOCD-REC'D 10/22/2020

Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO.
30-015-21572

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.
V-2531

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name
State D SWD

8. Well Number
1

1. Type of Well: Oil Well ☐ Gas Well ☐ Other SWD

2. Name of Operator
EOG Resources, Inc.

9. OGRID Number
7377

3. Address of Operator
104 South Fourth Street, Artesia, NM 88210

10. Pool name or Wildcat
SWD; Devonian

4. Well Location
Unit Letter N : 660 feet from the South line and 1980 feet from the West line
Section 16 Township 20S Range 24E NMPM Eddy County

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
3761'GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☒	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:	☐			OTHER:			☐

Notify OCD 24 hrs. prior to any work done

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

EOG Resources, Inc. plans to plug and abandon this well as follows:

1. MIRU all safety equipment as needed. Kill well as needed throughout the job. POOH with production equipment.
2. RIH with a GR/JB to 10,472'. Set a CIBP at 10,472' with 10' Class "H" cement on top. CIBP @ 10492' & DB 35' cl H cmt - WOC & Tag
3. Set a CIBP at 9673' and tag. Spot 25 sx Class "H" cement on top. WOC. This will cover Devonian perfs and DV tool at 9618'.
4. Tag TOC. Spot a 25 sx Class "H" cement plug from 8746'-8926' covering top of Morrow.
5. Spot a 25 sx Class "H" cement plug from 8392'-8572' covering top of Atoka.
6. Spot a 25 sx Class "H" cement plug from 7194'-7364' covering top of Canyon.
7. Spot a 30 sx Class "C" cement plug from 5160'-5409' covering top of Wolfcamp and DV tool at 5210'.
8. Spot a 30 sx Class "C" cement plug from 1858'-2160' covering top of Yeso and Glorieta.
9. Perforate at 1275'. Attempt to establish circulation. If fluid does not circulate proceed to step 10. If fluid does circulate proceed to step 11.
10. Spot a 25 sx Class "C" cement plug from 1225'-1275' covering 8-5/8" casing shoe. WOC. Must Tag @ 1175'
11. Spot a 25 sx Class "C" in/out cement plug from 1225'-1275' covering 8-5/8" casing shoe. WOC. Must Tag @ 1175'
12. Tag TOC at 1225'. Perforate at 468'. Attempt to establish circulation. If fluid does not circulate proceed to step 13. If fluid does circulate proceed to step 14.
13. Spot a 25 sx Class "C" cement plug from 320'-468' covering San Andres and 12-1/4" casing shoe. WOC.
14. Spot a 50 sx Class "C" cement plug from 320-468' covering San Andres and the 12-1/4" casing shoe. WOC.
15. Tag TOC at 320'. Spot a 25 sx Class "C" cement plug from 100' up to surface. 1" as needed.
16. Cut off wellhead and install dry hole marker. Clean location as per regulated.

Wellbore schematics attached

Must use closed loop system - do not dump fluids on ground

Spud Date: Rig Release Date:

****SEE ATTACHED COA's****

MUST BE PLUGGED BY 11/4/2021

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Tina Huerta TITLE Regulatory Specialist DATE October 22, 2020

Type or print name Tina Huerta E-mail address: tina_huerta@eogresources.com PHONE: 575-748-4168

For State Use Only

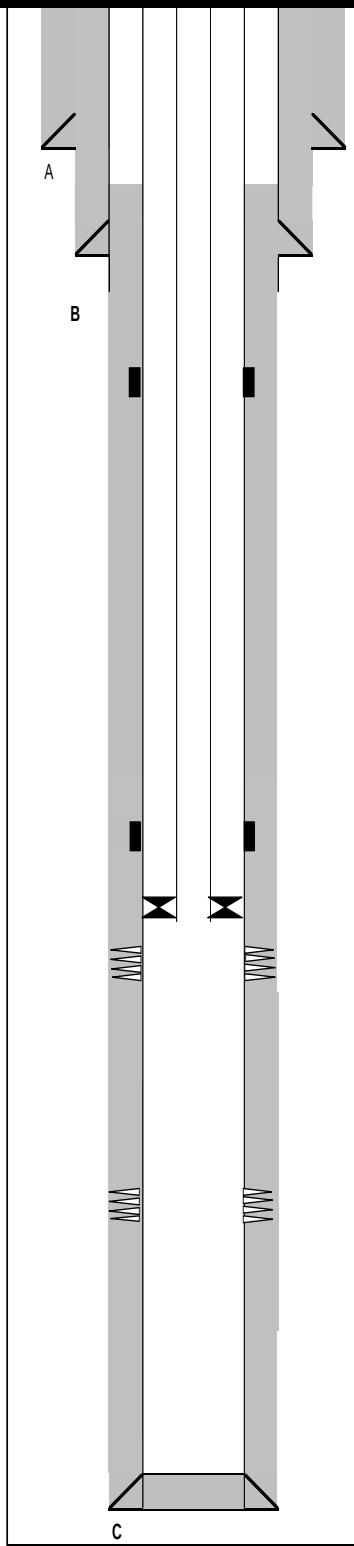
APPROVED BY: TITLE Staff Manager DATE 11/4/2020

Conditions of Approval (if any):

State D SWD #1 Before

Sec-TWN-RNG:	Sec. 16-20S-24E	API:	30-015-21572
FOOTAGES:	660' FSL & 1980' FWL	GL:	
CURRENT		KB:	

COMMENTS



DV tool @ 5210'

DV tool @ 9618'

Perforation set A

Perforation set B

PBTD: MD

TD: 11,220 MD

CASING DETAIL

#	HOLE SIZE	SIZE	WGHT	GRADE	Top	Bottom	Sx Cmt	Circ/TOC	TOC Method
A	17.5"	12.75"	50	J-55	0	370	450	Circ	
B	11"	8.625"	24	J-55	0	1,225	700	Circ	
C	7.875"	5.5"	17 % 20	J-55	0	11220	3000	Circ	

FORMATION TOPS

Formation	Top	Formation	Top
San Andres	418	Devonian	9721
Glorieta	1908	Montoya	10168
Yeso	2025	Cable Conyon	10466
Wolfcamp	5334	Ellenburger	10500
Canyon Lime	7279	Bliss Sand	11020
Atoka	8482	Granite	11084
Morrow	8836		
Chester Lime	9134		
Miss Lime	9242		
Woddford	9700		

TUBING DETAIL

#	Joints	Description	Length	OD	ID	Grade	Wt (lb/ft):	Top (ftKB):	Btm (ftKB):
		2-7/8" N-80 IPC	9642	2.875	2.307				

Perforations

	Formation	Depths
A	Devonian	9723' - 10457'
B	Ellenberger	10512' - 11052'

State D SWD #1 After

Sec-TWN-RNG:	Sec. 16-20S-24E	API:	30-015-21572
FOOTAGES:	660' FSL & 1980' FWL	GL:	
CURRENT		KB:	

COMMENTS

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DV tool @ 9618'

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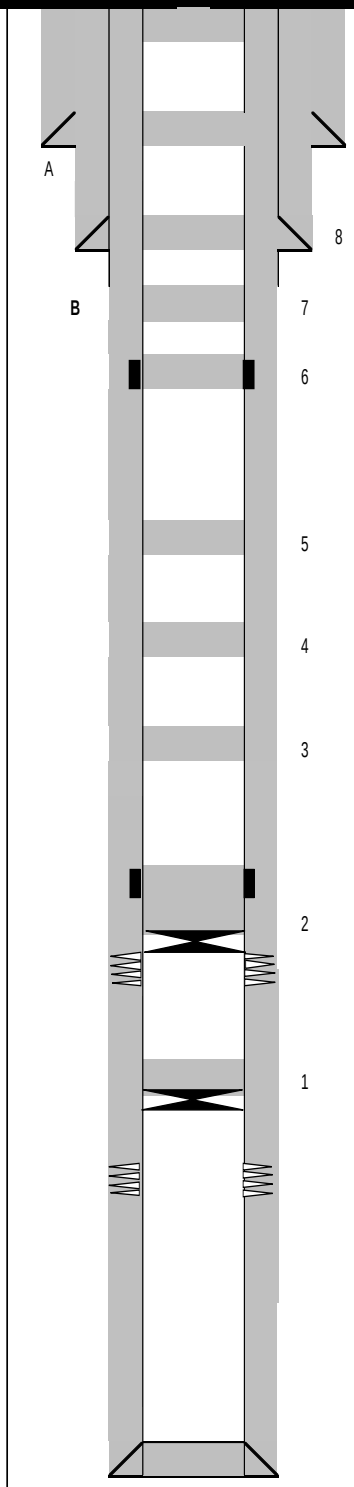

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Formation Tops

Formation	Top
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Morrow	8836
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Woddford	9700
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Montoya	10168
Cable Conyon	10466
Ellenburger	10500
Bliss Sand	11020
Granite	11084

Cement Plugs

1	CIBP @ 10,472' w/ 10' of class H cement on top
2	CIBP @ 9,673' w/ 25 sxs class H cement on top
3	25 sx class H plug from 8926' - 8746' covering the Morrow
4	25 sx class H plug from 8572' - 8392' covering the Atoka
5	25 sx class H plug from 7364' - 7194' covering the Canyon Lime
6	30 sx class C plug from 5409' - 5160' covering the Wolfcamp & DV tool.
7	30 sx class C plug from 2160' - 1858' covering the Yeso and Glorieta
8	25 sx class C plug from 1275' - 1225' covering the 8.625" casing shoe.
9	25sx class C plug from 468' - 320' covering the Sandres top and 12.75" casing shoe.
10	25 sx class C plug from 100' to surface.

Prepared by: Sanderson

CONDITIONS FOR PLUGGING AND ABANDONMENT

OCD - Southern District

The following is a guide or checklist in preparation of a plugging program, this is not all inclusive and care must be exercised in establishing special plugging programs in unique and unusual cases, **Notify NMOCD District Office II at (575)-748-1283 at least 24 hours before beginning work. After MIRU rig will remain on well until it is plugged to surface. OCD is to be notified before rig down. Company representative will be on location during plugging procedures.**

1. A notice of intent to plug and abandon a wellbore is required to be approved before plugging operations are conducted. A cement evaluation tool is required in order to ensure isolation of producing formations, protection of water and correlative rights. A cement bond log or other accepted cement evaluation tool is to be provided to the division for evaluation if one has not been previously run or if the well did not have cement circulated to surface during the original casing cementing job or subsequent cementing jobs. Insure all bradenheads have been exposed, identified and valves are operational prior to rig up.
2. Closed loop system is to be used for entire plugging operation. Upon completion, contents of steel pits are to be hauled to a permitted disposal location.
3. Trucking companies being used to haul oilfield waste fluids to a disposal – commercial or private – shall have an approved NMOCD C-133 permit. A copy of this permit shall be available in each truck used to haul waste products. It is the responsibility of the operator as well as the contractor, to verify that this permit is in place prior to performing work. Drivers shall be able to produce a copy upon request of an NMOCD Field inspector.
4. Filing a subsequent C-103 will serve as notification that the well has been plugged.
5. A final C-103 shall be filed (and a site inspection by NMOCD Inspector to determine if the location is satisfactorily cleaned, all equipment, electric poles and trash has been removed to Meet NMOCD standards) before bonding can be released.
6. If work has not begun within 1 Year of the approval of this procedure, an extension request must be file stating the reason the well has not been plugged.
7. **Squeeze pressures are not to exceed 500 psi, unless approval is given by NMOCD.**
8. Produced water **will not** be used during any part of the plugging operation.
9. Mud laden fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
10. All cement plugs will be a minimum of 100' in length or a minimum of 25 sacks of cement, whichever is greater. 50' of calculated cement excess required for inside casing plugs and 100% calculated cement excess required on outside casing plugs.
11. **Class 'C' cement will be used above 7500 feet.**
12. **Class 'H' cement will be used below 7500 feet.**
13. **A cement plug is required to be set 50' above and 50' below, casing stubs, DV tools, attempted casing cut offs, cement tops outside casing, salt sections and anywhere the casing is perforated, these plugs require a 4 hour WOC and then will be tagged**
14. **All Casing Shoes Will Be Perforated 50' below shoe depth and Attempted to be Squeezed, cement needs to be 50' above and 50' Below Casing Shoe inside the Production Casing.**

16. When setting the top out cement plug in production, intermediate and surface casing, wellbores should remain full at least 30 minutes after plugs are set
17. **A CIBP is to be set within 100' of production perforations, capped with 100' of cement, WOC 4 hours and tag.**
18. A CIBP with 35' of cement may be used in lieu of the 100' plug if set with a bailer. This plug will be placed within 100' of the top perforation, **(WOC 4 hrs and tag).**
19. No more than **3000' is allowed between cement plugs in cased hole and 2000' in open hole.**
20. Some of the Formations to be isolated with cement plugs are: These plugs to be set to isolate formation tops
    A) Fusselman
    B) Devonian
    C) Morrow
    D) Wolfcamp
    E)Bone Springs
    F) Delaware
    G) Any salt sections
    H) Abo
    I) Glorieta
    J) Yates.
    K) **Potash---** (In the R-111-P Area (Potash Mine Area), a solid cement plug must be set across the salt section. Fluid used to mix the cement shall be saturated with the salts that are common to the section penetrated and in suitable proportions, not more than 3% calcium chloride (by weight of cement) will be considered the desired mixture whenever possible, **WOC 4 hours and tag, this plug will be 50' below the bottom and 50' above the top of the Formation.**
21. **If cement does not exist behind casing strings at recommended formation depths,** the casing can be cut and pulled with plugs set at recommended depths. If casing is not pulled, perforations will be shot and cement squeezed behind casing, WOC and tagged. These plugs will be set 50' below formation bottom to 50' above formation top inside the casing

DRY HOLE MARKER REQUIRMENTS

The operator shall mark the exact location of the plugged and abandoned well with a steel marker not less than four inches in diameter, 3' below ground level with a plate of at least ¼" welded to the top of the casing and the dry hole marker welded on the plate with the following information welded on the dry hole marker:

1. Operator name 2. Lease and Well Number 3.API Number 4. Unit Letter 5. Quarter Section (feet from the North, South, East or West) 6. Section, Township and Range 7. Plugging Date 8. County (SPECIAL CASES)-------AGRICULTURE OR PRARIE CHICKEN BREEDING AREAS

In these areas, a below ground marker is required with all pertinent information mentioned above on a plate, set 3' below ground level, a picture of the plate will be supplied to NMOCD for record, the exact location of the marker (longitude and latitude by GPS) will be provided to NMOCD (We typically require a current survey to verify the GPS)

SITE REMEDIATION DUE WITHIN ONE YEAR OF WELL PLUGGING COMPLETION