

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.  
NMNM14497

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
DIAMOND 5 FED 019. API Well No.  
30-025-28156-00-S110. Field and Pool or Exploratory Area  
PITCHFORK RANCH11. County or Parish, State  
LEA COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

NOV 28 2018

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

EOG RESOURCES INCORPORATED

Contact: KAY MADDOX

E-Mail: KAY\_MADDOX@EOGRESOURCES.COM

3a. Address

MIDLAND, TX 79702

3b. Phone No. (include area code)

Ph: 432-686-3658

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 5 T25S R34E NENW 660FNL 2310FEL

## 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

## TYPE OF SUBMISSION

## TYPE OF ACTION

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Hydraulic Fracturing☐ New Construction☒ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☐ Other

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

EOG PROPOSES TO PLUG AND ABANDON THIS WELL USING THE ATTACHED PROCEDURE. THE CURRENT AND PROPOSED WELLBORE DIAGRAMS ARE ATTACHED.

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

Below ground level dry hole marker required.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #441559 verified by the BLM Well Information System

For EOG RESOURCES INCORPORATED, sent to the Hobbs

Committed to AFMSS for processing by DEBORAH MCKINNEY on 10/30/2018 (19DLM0102SE)

Name (Printed/Typed) KAY MADDOX

Title REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 10/29/2018

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

11-12-18-  
Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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.

(Instructions on page 2)

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

FOR RECORD ONLY  
NMCD 11/28/18



## Diamond 5 Fed #1

API# 30-025-28156

Sect 5, T25S, R34E

660' FNL & 1980' FWL

LEA, NM

1. Pull 2.875" production tubing from PBR @ 12,994'. Tubing has been cut and only 1.5 joints remain in the PBR. If we cannot pull we will need to talk with BLM about filling liner full of cement.
2. Set a 4-1/2" CIBP within 100' of the Morrow "A" Perfs at 14,491'.
3. Set a balanced plug (Class H) from the CIBP up to the top of the Morrow at 14,350' MD. WOC & tag with tubing. *250' Plug or 35' using dump bail.*
4. Circulate well with 9 ppg mud & pressure test the casing to 500 psig.
5. Set a balanced plug (Class H) across the 7" shoe from 12,960' to 13,432'. WOC and tag with tubing.
6. Set a balanced plug (Class H) across the Wolfcamp formation ~~11,040' to 11,300'~~ <sup>12,160' - 12,380'</sup>. WOC and tag with tubing. *Tag option*
7. Set a balanced plug (Class H) across the Bone Spring formation ~~8,820' to 9,070'~~ <sup>9,067' - 9,267'</sup>. WOC and tag with tubing. *Tag option*  
*Add Spacer Plug from 6,144' - 6,304' (25 sk min.)*
8. Perf the 7" casing at 5,300' and establish an injection rate, and squeeze cement (Class C) in the 7" & 7" x 9-5/8" Annulus at 5,100' (Brushy). *WOC Tag. Add Plugs \**
9. Perf the 7" casing at ~~4,450'~~ <sup>4,500'</sup> and establish an injection rate, and squeeze cement (Class C) in the 7" & 7" x 9-5/8" Annulus at ~~4,350'~~ <sup>4,500'</sup>. Close surface and hold 9 ppg fluid in place until the plug sets. WOC and tag the plug at ~~4,350'~~ <sup>4,500'</sup> or shallower.
10. Circulate cement from 60' to surface in all Annuli.
11. Cut off WH three feet below surface.
12. Weld on P&A marker. Cut off anchors three feet below surface. Clean location.

\* Add Plug Perf @ 4070, SQZ cement to 3930. WOC Tag (B/salt).

Add Plug Perf @ 2895, SQZ cement to 2765. WOC Tag (T/salt).

Well Name: Diamond 5 Fed #1  
 Location: 660' FNL & 1980' FWL Sec. 5-25S-34E  
 County/State: Lea County, NM  
 Lat/Long: 32.1332855, -103.5708847 NAD83  
 API #: 30-025-28156  
 Spud Date: 3/26/83  
 Compl. Date: 6/13/83

**Geogresources**

T/Salt 2845  
 B/Salt 4020

**Current Wellbore Diagram:**

KB: 3,438'  
 GL: 3,411'

14-3/4" Hole

13-3/8" 45# H-40 @ 600'  
 Cmt w/ 250 sx @ surf

12-1/4" Hole

CTOC 5000

9-5/8" 36# K-55/S-80 @ 5,150'  
 Cmt w/ 2,350 sx @ surf

8-3/4" Hole

7" 26# S-95/P-110 @ 13,385'  
 Cmt w/ 750 sx - TOC @ 5,000' (calc)

6-1/8" Hole

4-1/2" 13.5# P-110 liner @ 13,012-15,300'  
 Cmt w/ 450 sx, SQZ liner top w/ additional 150 sx

PBTD @ 15,490'  
 TD @ 15,300'

Formation Tops	
Delaware	5,264
Cherry Canyon	6,254
Bone Spring	9,217
Wolfcamp	12,330
Strawn	13,680
Atoka	13,828
Morrow Lime	14,210
Morrow Clastics	14,474

Original Production Tubing ran in 6/1983

PRODUCTION TUBING		Run 6-11-83
32.18'	1 jt 2-7/8" 6.5# N-80 LJ-HS upside dwn	
.40'	1 2-7/8" 6.5# N-80 LJ-HS DP sub	
9.90'	1 2-7/8" 6.5# N-80 LJ-HS sub	
12,957.61'	405 jts 2-7/8" 6.5# N-80 LJ-HS	
29.86'	3-7/8" OD x 2-3/8" ID x 29.86' M/L SA	
13,029.93'		
27.00'	RKB	
13,056.93'	Total	Casing set w/25,000# slackoff.

10/2017 - production tubing was cut at 12,994' WIL MD  
 Ran 1,000' of tubing in the hole for a kill string

1 joint, and a cut joint still in Seal Assembly  
 Top of fish at 12,994' MD from Wire Line

Morrow 'A' perms 14,491'-14,520' 5/15/1993  
 Morrow 'C' perms 15,051'-15,131' 6/12/1983

Sand Plug - 15,490' (tagged 6/9/93) 14,695 on 6/9/93

Fish in hole (TCP Assembly) - Top of Fish @ 13,736'  
 Cement Basket above TCP fish - TOC @ 13,724'

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*Proposed*  
**Current Wellbore Diagram:**

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14-3/4" Hole

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 Cmt w/ 250 sx @ surf

12-1/4" Hole

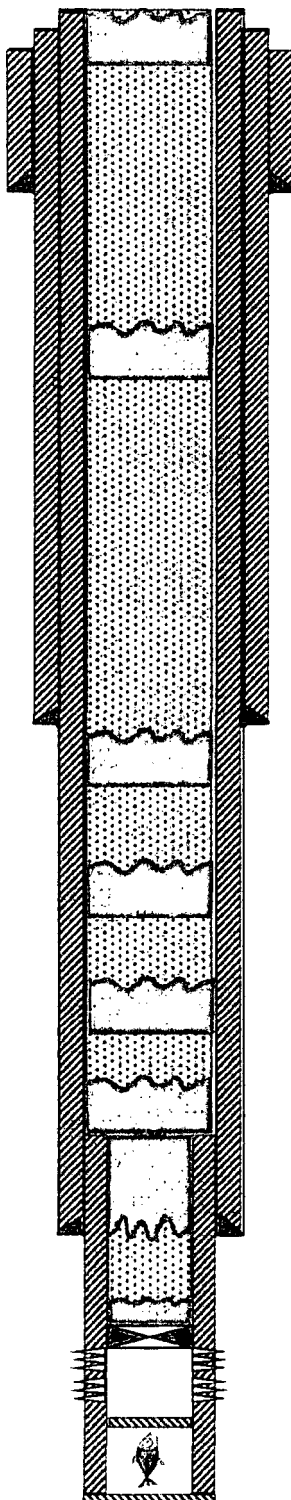
9-5/8" 36# K-55/S-80 @ 5,150'  
 Cmt w/ 2,350 sx @ surf

8-3/4" Hole

7" 26# S-95/P-110 @ 13,385'  
 Cmt w/ 750 sx - TOC @ 5,000' (calc)

6-1/8" Hole

4-1/2" 13 5# P-110 liner @ 13,012-15,300'  
 Cmt w/ 450 sx, SQZ liner top w/ additional 150 sx



Circulate 60' of cement in all annuli

Perf & Squeeze 7" x 7" x 9-5/8" Annulus  
 1,350' - 1,450'

Brushy Plug  
 5,100' - 5,300'

Bone Spring Top Plug  
 6,820' - 9,070'

Wolfcamp Top Plug  
 11,040' - 11,300'

7" shoe and 4 1/2" liner top plug  
 12,960' - 13,430'

plug above CIBP at Morrow top 14,350'  
 CIBP set at +/- 14,491'

Morrow 'A' perms: 14,491'-14,520' 5/15/1993  
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 Cement Basket above TCP fish - TOC @ 13,724'

PBTD @ 15,490'  
 TD @ 15,300'

**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 (LPC Habitat)**

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. Below Ground Level Cap (Lesser Prairie-Chicken Habitat): 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.** Upon the plugging and subsequent abandonment of wells that are located in lesser prairie-chicken habitat, the casings shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be covered with a metal plate at least ¼ inch thick and welded in place. A weep hole shall be left in the plate and/or casing.

NMOCD also requires the operator to notify NMOCD when this type of dry hole marker is used. This can be done on the subsequent report of abandonment which is submitted to the BLM after the well is plugged. State that a below ground cap was installed as required in the COA's from the BLM.

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.

**Timing Limitation Stipulation/ Condition of Approval for Lesser Prairie-Chicken:**

From March 1<sup>st</sup> through June 15<sup>th</sup> annually, abandonment activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted