

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

HOBBS OCD

DEC 04 2013

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.

RECEIVED

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

5. Lease Serial No.  
NMNM28881

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.  
NM061P3585C4998. Well Name and No.  
DIAMOND 31 FED 019. API Well No.  
30-025-29000-00-S110. Field and Pool, or Exploratory  
PITCHFORK RANCH11. County or Parish, and State  
LEA COUNTY, NM1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator  
EOG RESOURCES INCORPORATED  
Contact: STAN WAGNER  
E-Mail: stan\_wagner@eogresources.com3a. Address  
MIDLAND, TX 797023b. Phone No. (include area code)  
Ph: 432-686-36894. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 31 T24S R34E NESW 1980FSL 1980FWL

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input checked="" type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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 recomple 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 shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall 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 Resources requests permission to convert this well to SWD as follows:

1. Perforate 7" casing from 5450' to 7050'.
2. Acidize perforations with 72 bbls Acetic acid.
3. RIH with 3-1/2" IPC injection tubing and packer set at 5400'.
4. Notify both BLM and NMOC of MIT test. Perform MIT test.
5. With good MIT test, place well on injection.

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

\* A plugback sundry was approved 11/1/13. Work is scheduled to begin the week of 11/11/13 if BLM approval of this sundry is received.\*

SWD Order # SWD-1440

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #225655 verified by the BLM Well Information System For EOG RESOURCES INCORPORATED, sent to the Hobbs Committed to AFMSS for processing by JOHNNY DICKERSON on 11/07/2013 (14JLD0744SE)	
Name (Printed/Typed) STAN WAGNER	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 11/05/2013

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By WESLEY INGRAM	Title PETROLEUM ENGINEER	Date 12/03/2013
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 Hobbs

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.

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

DEC 09 2013

## **Conditions of Approval**

**EOG Resources, Inc.**  
**Diamond 31 Fed Com 1**  
**API 30-025-29000**  
**T24S-R34E, Sec 31**  
December 3, 2013

1. Due to being within the Lesser Prairie Chicken habitat, this workover activity will be restricted to the hours of 9:00am through 3:00am for the period of March 1 through June 15. Exceptions to these restrictions may be granted by BLM's Johnny Chopp <jchopp@blm.gov> 575.234.2227 or Bob Ballard <bballard@blm.gov> 575.234.5973.
2. A new "Well Location and Acreage Dedication Plat" (NMOCD Form C-102) is required with the notice of intent package when completing to a different formation.
3. Operator is removing well from the communitized formation. Operator shall submit a sundry renaming the well by removing "Com" from the well name.
4. Subject to like approval by the New Mexico Oil Conservation Division.
5. **Provide BLM with an electronic copy (Adobe Acrobat Document) cement bond log record from 7200 or below to top of cement. The CBL may be attached in an e-mail to pswartz@blm.gov. The CFO BLM on call engineer may be reached at 575-706-2779.**
6. **Notify BLM 575-393-3612 Lea Co a minimum of 24 hours prior to commencing work.** Some procedures shall be witnessed. If no answer, leave a voice mail with the API#, workover purpose, and a call back phone number. Note the contact, time and date in your subsequent report.
7. Surface disturbance beyond the existing pad must have prior approval.
8. A closed loop system is required. The operator shall properly dispose of drilling/circulating contents at an authorized disposal site. Tanks are required for all operations, no excavated pits.
9. Functional H<sub>2</sub>S monitoring equipment shall be on location.
10. 5000 (5M) Blow Out Prevention Equipment to be used. All BOP/BOPE and workover procedures shall establish fail safe well control. Rams sized for the work string(s) used are required. Manual BOP closure system including a blind ram and pipe ram(s) designed to close on all equipment shall be installed regardless of BOP design. A function test of the installed BOP/BOPE shall be performed to 500 psig prior to commencing work and during workover operations when well conditions allow. Related equipment, (choke manifolds, kill trucks, gas vent or flare lines, etc.) shall be employed when needed for reasonable well control requirements.

11. All waste (i.e. trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
12. **Set a balanced cement plug at 9330 ft to cover the Bone Spring formation top by at least 50' feet. This plug can replace the plug in Step 6 of the NOI dated 09/03/2013.**
13. **The BLM PET witness is to run tubing tally and agree to cement placement. Sample each plug for cement curing time and tag and/or pressure test WOC time as requested by BLM PET witness.**
14. Class H > 7500ft & C < 7500ft) cement plugs(s) will be necessary. The minimum pumped volume of 25 sacks of cement slurry is to exceed a 100ft cement plug across the drilled wellbore. Add 10% to the 100 ft slurry volume for each 1000 ft of plug depth. For any plug that requires a tag or pressure test a minimum WOC time of 4 hours(C) & 8 hours(H) is recommended. Formation isolation plugs of Class "C" to be mixed 14.8#/gal, 1.32 ft<sup>3</sup>/sx, 6.3gal/sx water and "H" to be mixed 15.6#/gal, 1.18ft<sup>3</sup>/sx, 5.2gal/sx water.
15. Minimum requirement for mud placed between plugs is 25 sacks of salt water gel per 100 barrels in 9 lb/gal brine.
16. **After setting the top plug and before perforating, perform a BLM PET witnessed (charted) casing integrity test of 1200 psig. Pressure leakoff may require remediation prior to continuing with procedure. Include a copy of the chart in the subsequent sundry for this workover.**
17. **The operator shall properly evaluate the injection zone utilizing open hole logs, swab testing and/or any other method to confirm that hydrocarbons cannot be produced in paying quantities. This evaluation shall be reviewed by the BLM prior to injection commencing.**
18. **Operator shall restrict the injection to the approved interval.**
19. **If off-lease water will be disposed in this well, the operator shall provide proof of right-of-way approval. If the well will be used for commercial disposal, operator shall have a right of way in place prior to injection.**
20. **File subsequent report sundry Form 3160-5 within 30 days of completed work.**
21. **Submit the BLM Form 3160-4 Recompletion Report within 30 days of the date all BLM approved procedures are complete.**
22. **Workover approval is good for 90 days (completion to be within 90 days of approval). A detailed justification is required for extension of that date.**

### Operations for a Well with an Inj Packer

- 1) Conduct a Mechanical Integrity Test of the tubing/casing annulus after a tubing, packer or casing seal is established. Repair that seal any time more than five barrels of packer fluid is replaced within 30 days.
- 2) The minimum test pressure should be 500 psig for 30 minutes or 300 psig for 60 minutes, with a minimum 200 psig differential between tubing and casing pressure (at test time) but no more than 70% of casing burst pressure as described by Onshore Order 2.III.B.1.h. (The tubing or reservoir pressure may need to be reduced). An alternate method for a BLM approved MIT is to have the fluid filled system open to atmospheric pressure and have a loss of less than five barrels in 30 days witnessed by a BLM authorized officer.
- 3) Document the pressure test on a one hour full rotation calibrated recorder chart registering within 25 to 85 per cent of its full range. Greater than 10% pressure leakoff will be viewed as a failed MIT. Less than 10% pressure leakoff will be evaluated site specifically and may restrict injection approval.
- 4) Make arrangements 24 hours before the test for BLM to witness. In Lea County phone 575-393-3612. If no answer, leave a voice mail or email with the API#, workover purpose, and a call back phone number. Note the contact, time, & date in your subsequent report.
- 5) Submit a subsequent Sundry Form 3160-5 relating the MIT activity. Include a copy of the recorded MIT pressure chart. List the name of the BLM witness, or the notified person and date of notification. NMOCD is to retain the original recorded MIT chart.
- 6) Use of tubing internal protection, tubing on/off equipment just above the packer, a profile nipple, and an in line tubing check valve below the packer or between the on/off tool and packer is a "Best Management Practice". The setting depths and descriptions of each are to be included in the subsequent sundry. List (by date) descriptions of daily activity of any previously unreported wellbore workover.
- 7) **Submit the original subsequent sundry with three copies to BLM Carlsbad.**
- 8) Compliance with a NMOCD Administrative Order is required, submit documentation of that authorization. Approved injection pressure compliance is required. If injection pressure exceeds the approved pressure you are required to reduce that pressure and notify the BLM within 24 hours.
- 9) When injection pressure is within 50 psig of the maximum pressure, install automation equipment that will prevent exceeding that maximum. Submit a subsequent report (Sundry Form 3160-5) describing the installed automation equipment within 30 days.
- 10) Unexplained significant variations of rate or pressure to be reported within 5 days of notice.
- 11) The casing/tubing annulus is required to be monitored for communication with injection fluid or loss of casing integrity. A BLM inspector may request verification of a full annular fluid level at any time.
- 12) A "Best Management Practice" is to maintain the annulus full of packer fluid at atmospheric pressure. Equipment that will display on site, continuous open to the air fluid level is necessary to achieve this goal.

- 13) Loss of packer fluid above five barrels per month indicates a developing problem. Notify BLM Carlsbad Field Office, Petroleum Engineering within 5 days.
- 14) A suggested format for monthly records documenting that the casing annulus is fluid filled is available from the BLM Carlsbad Field Office.
- 15) Gain of annular fluid requires notification within 24 hours. Cease injection and maintain a production casing pressure of 0psia. Notify the BLM's authorized officer ("Paul R. Swartz" 575-200-7902). If there is no response phone 575-361-2822.
- 16) Submit a (Sundry Form 3160-5) subsequent report (daily reports) describing all wellbore activity and Mechanical Integrity Test as per item 1) above. Include the date(s) of the well work, and the setting depths of installed equipment: internally corrosive protected tubing, tubing on/off equipment just above the packer, and an in line tubing check valve below the packer or between the on/off tool and packer. The setting depths and descriptions of each are to be included in the subsequent sundry. List daily descriptions of any previously unreported wellbore workover(s) and reason(s) the well annular fluid was replaced.

Access information for **use of Form 3160-5** "Sundry Notices and Reports on Wells"

NM Fed Regs & Forms - [http://www.blm.gov/nm/st/en/prog/energy/oil\\_and\\_gas.html](http://www.blm.gov/nm/st/en/prog/energy/oil_and_gas.html)

§ 43 CFR 3162.3-2 Subsequent Well Operations.

§ 43 CFR 3160.0-9 (c)(1) Information collection.

§ 3162.4-1 (c) Well records and reports.