

HOBBS OCD

SEP 23 2013

Form 3160-5  
(March 2012)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Operator Copy  
RECEIVED

FORM APPROVED  
OMB NO. 1004-0137  
Expires October 31, 2014

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3180-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well  
 Oil Well  Gas Well  Other Proposed SWD

2. Name of Operator  
EOG Resources, Inc.

3a. Address  
P.O. Box 2267 Midland, TX 79702

3b. Phone No. (include area code)  
432-686-3689

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
2310 FNL & 990 FWL, SWNW  
Sec 25, T26S, R33E

5. Lease Serial No.

MMNM122622

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

Endurance 25, Fed 2

9. API Well No.

30-025-41067

10. Field and Pool, or Exploratory Area  
SWD; Delaware

11. County or Parish, State

Lea NM

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

TYPE OF SUBMISSION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

- |   |   |  |   |
|---|---|--|---|
| <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off   |
| <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity   |
| <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other |
| <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       | <u>Convert to SWD</u>                     |
| <input 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 recomplete 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 final site is ready for final inspection.)

EOG Resources requests permission to convert this well to SWD as follows:

1. Set a CIBP at +/- 7200'.
2. Perforate injection interval from 5955' to 7070'.
3. Set 7" Nickel Plated Packer @ +/- 5905' on 3-1/2" IPC injection tubing.
4. Notify BLM and Perform MIT test to 500 psi.
5. Start injection.

SUBJECT TO LIKE  
APPROVAL BY STATE

TDC by CBL 6/21/13 of 7" casing is 4920'

NMOCD order # SWD-1424-A

Approximate start of conversion will be Mid-August +/- 8/12/13.

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

FOR RECORD ONLY

SWD-1424-A

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Stan Wagner

Title Regulatory Analyst

Signature

Date 7/26/2013

APPROVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date AUG 9 2013  
/s/ Chris Walls

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

BUREAU OF LAND MANAGEMENT  
CARLETON FIELD OFFICE

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it unlawful 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.

SEP 23 2013

## **Conditions of Approval**

**Endurance 25 Fed 2**

**API 30-025-41067**

August 9, 2013

1. A balanced Class H cement plug is required from 9550-9250 to isolate the Bone Spring formation.
2. Pressure test the 9-5/8" X 7" annulus to 500 psi. Document the pressure test on a 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 test.
3. Operator must submit for approval an annulus monitoring system for this well because the cement tieback is questionable. See below best management practice for annulus monitoring systems.
4. Submit evaluation that proposed injection formation perforations are not productive in paying quantities. That evaluation is to be reviewed by BLM prior to initiating injection.
5. Notify BLM 575-393-3612 before plug back procedures. The procedures are to be witnessed.
6. Surface disturbance beyond the existing pad must have prior approval.
7. Casing added or replaced requires a prior notice of intent (BLM Form 3160-5) approval of the design.
8. Closed loop system required.
9. Workover approval is good for 90 days (completion to be within 90 days of approval).

### **General Conditions of Approval: Well with a 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.
  - a) The minimum test pressure should be 500 psig for 30 minutes or 300 psig for 60 minutes, with 200 psig differentials 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.
  - b) Document the pressure test on a 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.
  - c) At least 24 hours before the test: In Eddy County email Paul R. Swartz [paul\\_swartz@blm.gov](mailto:paul_swartz@blm.gov), (phone 575-200-7902). If there is no response phone 575-361-2822. In Lea County email Andy Cortez [andy\\_cortez@blm.gov](mailto:andy_cortez@blm.gov), (phone 575-393-3612 or 575-631-5801). Note the contact notification method, time, & date in your subsequent report.
  - d) 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.
  - e) Use of tubing internal protection, 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 is required. 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.
  - f) Submit the original subsequent sundry with three copies to BLM Carlsbad.
- 2) Compliance with a NMOCD Administrative Order is required, submit documentation of that authorization.
  - a) Approved Injection pressure compliance is required.

- b) If injection pressure exceeds the approved pressure you are required to reduce that pressure and notify the BLM within 24 hours.
- c) When Injection pressure is within 50 psig of the maximum pressure, install automation equipment that will prevent exceeding that maximum.
  - 1) Submit a subsequent report (Sundry Form 3160-5) describing the installed automation equipment within 30 days.
- 3) Other unexplained significant variations of rate or pressure to be reported within 5 days of notice.
- 4) The casing/tubing annulus is required to be monitored for communication with injection fluid or loss of casing integrity.
- 5) The annulus is to be maintained full of packer fluid at atmospheric pressure. Installation of equipment that will display on site, continuous open to the air fluid level is required. A BLM Inspector may request verification of this fluid level at any time.
- 6) Submit a subsequent report (Sundry Form 3160-5) describing the installation of packer fluid level monitoring equipment within 30 days of beginning injection.
- 7) The operator shall keep monthly records documenting that the casing annulus is fluid filled. A suggested format for these records is available from the BLM Carlsbad Field Office. Copies of those records shall be furnished at the request of a BLM authorized officer.
- 8) Loss of packer fluid above five barrels per month requires notification of the BLM authorized officer within 5 days.
- 9) Gain of annular fluid requires notification within 24 hours. Cease injection and maintain a production casing pressure of Opsia. Notify the BLM's authorized officer (Paul R. Swartz [paul.swartz@blm.gov](mailto:paul.swartz@blm.gov) phone 575-200-7902). If there is no response phone 575-361-2822.
- 10) Also submit to this office a (Sundry Form 3160-5) Notice of Intent (NOI) for planned well work involving a formation change, casing repair/replacement, and injection well fracture treatment for approval by BLM and NMOC. Verbal approval for the plan may be given by a BLM authorized officer, with the NOI filed within five business days. Packer and tubing repair (normal maintenance procedures) do not require a NOI, but a subsequent sundry needs to be filed. [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) (see CFR § 3162.3-2 43 & CFR § 3160.0-9 (c)(1)).
  - a) 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 required 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 is required. 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.

CRW 080933