

## New Mexico Oil Conservation Division, District I

1625 N. French Drive

Hobbs, NM 88240

Form 3160-5  
(August 2007)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010**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.  
NMNM0145685

6. If Indian, Allottee or Tribe Name

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

## 1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator  
EOR Operating Co

## 3a. Address

200 N. Loriane, Suite 1440 Midland, TX 79701

## 3b. Phone No. (include area code)

432-687-0303

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
990 FSL & 330 FWL  
Sec 30 T 08S R 35E7. If Unit of CA/Agreement, Name and/or No.  
Horton Federal8. Well Name and No.  
#149. API Well No.  
30-041-1011010. Field and Pool or Exploratory Area  
Milnesand - San Andres11. Country or Parish, State  
Roosevelt Co, NM

## 12. CHECK THE 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 checked="" type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       |   |
|  | <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 recompleting 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 recompletion 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.)

EOR Operating Co. requests approval to plug and abandon this well according to attached proposed procedure and wellbore diagram.

Est start date 5/12/11

\*\*Note: EOR plans to use BCM & Associates to plug a total of 13 wells (for both EOR, 12 wells & Ridgeway, 1 well) and has scheduled to complete these 13 P&As prior to 6/30/11

HOBBSCO

JUN 02 2011

RECEIVED

ELG 6-2-2011

APPROVED FOR 3 MONTH PERIOD  
ENDING AUG 19 2011

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

Jana True

Title Production Asst

Signature

Date 04/29/2011

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

/S/ DAVID R. GLASS

Title PETROLEUM ENGINEER

Date

MAY 19 2011

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)

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

## Plugging Procedure

Horton Federal #14

API No. - 30-041-10110

1. Prepare location and test anchors
2. MIRU plugging rig
3. Notify OCD/HFO 24 hours prior to commencement of P & A procedure.
4. NDWH/NU BOP
5. RIH w-4 ½ CIBP on 2 3/8 WS @ 4620' (+/-) - within 100' of top perf - 4667'
  - a. Spot 35' of cement on CIBP
  - b. Let cement cure - bump plug @ 4585' (+/-)
6. Load well with plugging mud and conduct MIT to 500 psi. , test for leak off.
  - a. Bleed pressure off after MIT.
7. TIH to 4585' and spot 25 SX cement plug
- a. Wait on cement and tag
8. MIRU WL and RIH w/perf gun to 3057'
  - a. perforate @ 2 JSPF
  - b. POOH w/WL
  - c. Rig WL down move off loc.
9. TIH w/WS - ~~spot 25~~ SX cement plug @ 3057' *Squeeze 40 To Have Solid Plug F/3057-2957'*
  - a. Wait on cement
  - b. Tag plug *@ 3057' Or Above*
10. MIRU WL and RIH w/perf gun to 1529'
  - a. perforate @ 2 JSPF
  - b. POOH w/WL
  - c. Rig WL down move off loc.
11. TIH w/WS - ~~spot 25~~ SX cement plug @ 1529' *Squeeze 40 To Have Solid Plug F/1529-1429'*
  - a. Wait on cement
  - b. Tag plug *@ 1429' Or Above*
12. MIRU WL and RIH w/perf gun to 425'
  - a. perforate @ 2 JSPF
  - b. POOH w/WL
  - c. Rig WL down move off loc.
13. TIH w/WS - ~~spot 25~~ SX cement plug @ 425' *Squeeze 40 455' To Have Solid Plug F/455-355'*
  - a. 8 5/8 csng. Shoe @ 405'
  - b. Wait on cement
  - c. Tag plug
14. TIH to tag plug @ ~~400' (+/-)~~ *355' Or Above*
  - ~~a. Spot cement plug~~ *Perforate @ 60' & Squeeze W/25 SX. To Have Solid Plug F/60-0'*
  - ~~b. circulate cement to surface~~
  - ~~c. TOH w/WS~~
15. RDMO Plugging Rig
  - a. Install P & A marker plate
  - b. Cut off dead men
  - c. Remediate Location



## **BUREAU OF LAND MANAGEMENT**

**Roswell Field Office  
2909 West Second Street  
Roswell, New Mexico 88201  
(575) 627-0272**

### **Permanent Abandonment of Federal Wells Conditions of Approval**

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 the BLM Roswell Field Office, prior to the 90<sup>th</sup> day, with the reason for not meeting the deadline and a date when the BLM Roswell Field Office can expect the well to be plugged. Failure to do so will result in enforcement action.**
  2. Notification: Contact the BLM Roswell Field Office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, during office hours call (575) 627-0205 or after office hours call (575) 420-2832. Engineer on call during office hours phone (575) 627-0275 or phone (after hours) call (575) 626-5749.
  3. Blowout Preventers: A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The minimum BOP requirement is a 2M system for a well not deeper than 9090 feet; a 3M system for a well not deeper than 13636 feet; and a 5M system for a well not deeper than 22727 feet.
  4. Mud Requirement: Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at a rate of 25 sacks (50 pounds each) of gel per 100 barrels of 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 not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. In lieu of a cement plug in cased hole, a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 50 feet of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient.
- Unless otherwise specified in the approved procedure, the cement plug shall consist of either class "C" for up to 7500 feet of depth, mixed at 14.8 lbs./gal with 6.3 gallons of fresh water per sack or class "H" for deeper than 7500 feet plugs, mixed at 16.4 lbs./gal with 4.3 gallons of fresh water per sack.
6. Monument: Upon abandonment of the well, all casing 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. The following information shall be permanently inscribed on the dry hole marker: Well name and number, the name of the operator, the lease serial number, the surveyed location (the quarter-quarter section, township and range or other authorized survey designation acceptable to the authorized officer; such as metes and bounds).
  7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and five copies of the Subsequent Report of Abandonment, Form 3160-5 to the BLM Roswell Field Office. 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.**

Following the submittal and approval of the Subsequent Report of Abandonment, a Notice of Intent for Final Abandonment with the proposed surface restoration procedure must be submitted for approval.