

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM 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 re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other: INJECTION		5. Lease Serial No. NMNM0145685
2. Name of Operator EOR OPERATING COMPANY		6. If Indian, Allottee or Tribe Name
3a. Address 777 N. ELDRIDGE PARKWAY, SUITE 150 HOUSTON, TX 77079		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 832-485-8522		8. Well Name and No. HORTON FEDERAL 4
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 30 T8S R35E 1650FNL 1650FWL		9. API Well No. 30-041-10104
		10. Field and Pool or Exploratory Area MILNESAND SAN ANDRES
		11. County or Parish, State ROOSEVELT COUNTY, 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 (St)	INT TO PA <u>PM</u> P&A NR _____ P&A R _____
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily A	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposa	

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 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 Company (EOR Operating) requests approval to plug and abandon the Horton Federal #4 according to the attached proposed plugging procedure with well bore diagram.

BCM will plug the well, and is anticipated to start the P&A of the well once the 5 wells currently being plugged are finished.

EOR Operating or a representative will contact the BLM 24 hours prior to beginning plugging procedures.

*Yates plug added 2,855'-2,775'  
other plugs modified see COFS*

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct. Electronic Submission #429069 verified by the BLM Well Information System For EOR OPERATING COMPANY, sent to the Roswell Committed to AFMSS for processing by JENNIFER SANCHEZ on 07/30/2018 ( )	
Name (Printed/Typed) LAURI M STANFIELD	Title OFFICE MANAGER
Signature (Electronic Submission)	Date 07/27/2018
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved By _____	Title _____
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)

**\*\* OPERATOR-SUBMITTED \*\*****FOR RECORD ONLY**  
NM0CD 08/07/2018



Plugging Procedure  
Horton Federal #4  
API – 30-041-10104  
Sec. 30, T8S, R35E  
1960' FNL 1650' FWL

1. Prepare location and test anchors
2. MIRU plugging rig
3. Notify OCD/BLM 24 hours prior to commencement of P&A procedures
4. NDWH/NU BOP
5. RIH w/ 4 1/2" CIBP on 2 3/8" workstring @ 4607' (+/-) within 50' of top perf – 4657'
  - a. Spot 35' of cement on CIBP
  - b. WOC – bump plug @ 4572' (+/-)
6. Load well with a minimum of 9 lb. mud and conduct MIT to 500 psi., test for leak off
  - a. Bleed pressure off after MIT
7. MIRU WL and RIH w/ perf gun to 2572'
  - a. Perforate @ 2 JSPF
  - b. POOH w/WL
  - c. RDWL
8. TIH w/WS – Squeeze 125' cement @ 2572' to 2447' (+/-) *? Pump enough to fill backside + 125' plug.*
  - a. Wait on cement
  - b. Tag plug @ 2447' or above
9. MIRU WL and RIH w/perf gun to 478'
  - a. Perforate @ 2 JSPF
  - b. POOH w/WL
  - c. RDWL
10. TIH w/WS – Squeeze 100' cement @ ~~478'~~ <sup>447'</sup> to ~~378'~~ <sup>347'</sup>
  - a. 8 5/8" casing shoe @ 397'
  - b. Wait on cement
  - c. Tag plug @ ~~378'~~ <sup>357'</sup> or above
11. MIRU WL and RIH w/perf gun to 60'
  - a. Perforate @ 2 JSPF
  - b. POOH w/WL
  - c. RDWL
12. TIH w/WS – Circulate cement plug from 60' to surface
  - a. Wait on cement
  - b. Cut off well head 4' below ground level
13. RDMO plugging rig
  - a. Install P&A marker
  - b. Cut off dead men
  - c. Remediate location



**Horton Federal 4  
30-041-10104  
EOR Operating Company  
July 31, 2018  
Conditions of Approval**

- 1. Operator shall place CIBP at 4,607' (50'-100' above top most perf) and place 35' of Class C cement on top as proposed. WOC and TAG.**
- 2. Operator shall place a balanced Class C cement plug from 2,855'-2,725' to seal the top of the Yates formation. WOC and TAG.**
- 3. Operator shall perf and squeeze as proposed at 2,447'. Operator shall place a balanced Class C cement plug from 2,572'-2,447' to seal the top of the Salt formation. WOC and TAG.**
- 4. Operator shall perf and squeeze at 447'. Operator shall place a balanced Class C cement plug from 447'-347' (50' above and 50' below the shoe) to seal the Shoe. WOC and TAG.**
- 5. Operator shall perf and squeeze at 60' bringing cement to surface.**
- 6. See Attached for general plugging stipulations.**

**JAM 073118**

**BUREAU OF LAND MANAGEMENT**  
**Roswell Field Office**  
**2909 W. Second Street**  
**Roswell, New Mexico 88201**  
**575-627-0272**

**General Requirements for Plug Backs**

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 this approval.

**If you are unable to plug back 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 back. Failure to do so will result in enforcement action.**

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plug back operations. Call 575-627-0205.

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. **Before pumping 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. **Subsequent Plug back Reporting:** Within 30 days after plug back work is completed, file one original and three copies of the Subsequent Report, Form 3160-5 to BLM. The report should give in detail the manner in which the plug back 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 work was completed.**

7. **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.