

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.*

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

**HOBBS OCD**  
**MAY 23 2018**  
**RECEIVED**

5. Lease Serial No. NMNM106916

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No. East Livingston '31' Federal #1

9. AP Well No. 30-025-36380

10. Field and Pool or Exploratory Area  
Livingston Ridge, Delaware, SE

11. Country or Parish, State  
Lea, NM

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator US Energy Development Corporation

3a. Address 2350 N. Forest Rd. Suite: 31B, Getzville, NY 14068

3b. Phone No. (include area code) (716) 636-0401

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)  
560' FNL & 330' FEL Sec 31 T2S R32E

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"/> 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 Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

INT TO PA **PM**  
P&A NR \_\_\_\_\_  
P&A R \_\_\_\_\_

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 recomplate 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 detennined that the site is ready for final inspection.)

Plan to Plug & Abandon well, reclaim flowline, surface locations and tank battery access road to natural conditions.  
All Proposed Cement Plugs are 14.8 ppg Class C Cement. Other Fluid: 9.0 ppg mud (25 sks salt water gel per 100 bbls brine).  
1) Set CIBP @ 6825'. Spot 25sks cement from 6655'-6825'. Tag at 6655' or above.  
2) Load hole with 9ppg mud.  
3) Perf @ 4623'. Squeeze 55sks cement to 4315'. Tag at 4315' or above.  
4) Perf @ 1060'. Squeeze 50sks cement to 774'. Tag at 774' or above.  
5) Perf @ 60'. Squeeze 15sks cement to surface.

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

*Below ground level day hole marker required*

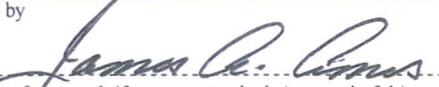
14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) **ANGIE ONE**

Signature 

Title **REGULATORY ANALYST**

Date **5/11/2018**

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by 

Title **Supv. AET** Date **5-19-18**

Office **Carlsbad**

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.

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)

**FOR RECORD ONLY**  
**NMOC 05/29/2018**

# MUZZERING PROCEDURE

Hole Size 17 1/2"

745 SXS Cement

TOC AT Surf.

13 3/8" Casing Set at 824

Hole Size 12 1/4"

1485 SXS Cement

TOC AT Surf.

8 5/8" Casing Set at 4573

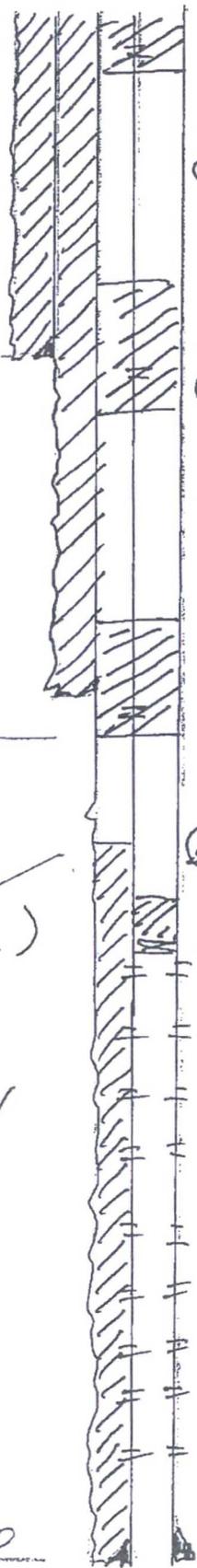
Hole Size 7 7/8"

750 SXS Cement

TOC AT ~~8800~~ 5500 (CBL)

Below ground level  
dry hole marker  
required.

5 1/2" Casing Set at 8800  
TD AT 8800 PBTD 8678



Operator Echo Prod Inc

Well Name/NO. East Livingston 31-7

API 30025 36380

560 (NS) 330 (EW) Sec. 31

T 22 S, R 32 E 2ea CTY

④ Perf @ 60' SQZ cmt to Surface.  
R-III-P

Secretary Polish

Cas/Marker

4200' Tag @ 774.

③ Perf @ 1060, SQZ cmt to 774.

Top Salt 1010

Base Salt 4365 +/-

## FORMATIONS

T/Salt 280 1010

B/Salt 4365 +/-

Del 4565

BS 8460

WOC Tag @ 4315.

② Perf @ 4623 SQZ cmt to 4315.

Cas w/25' SX cmt. To 6655

① Set CBA @ 6825 (min)

DVT

## PERFORATIONS

8376-86

8394-8406

8430-42

6925-7139

James H. Amos

575-234-5909

575-361-2648

**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