

KM

Form 3160-5
(April 2004)

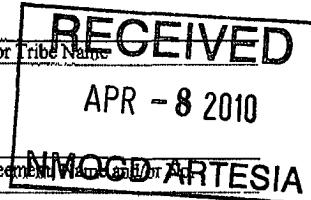
OCD Artesia

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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 reverse side.

FORM APPROVED	
Budget Bureau No. 1004-0137	
Expires: March 31, 2007	
5. Lease Serial No.	
NMNM 0107697	
6. If Indian, Allottee or Tribe Name	
7. If Unit or CA, Agreement, Name and No.	



1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Lynx Petroleum Consultants, Inc.

3a. Address

P.O. Box 1708, Hobbs, NM 88241

3b. Phone No. (include area code)

505-392-6950

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

At surface: 660' FSL & 660' FEL Section 23, T19S, R31E

At proposed prod. Zone: 460' FSL & 660' FEL Section 23, T19S, R31E

8. Well Name and No.

Jones Federal "B" No. 3

9. API Well No.

30-015-10394

10. Field and Pool, or Exploratory Area

Lusk

11. County or Parish; State

Eddy County, NM

12. CHECK APPROPRIATE BOX(S) 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 - Sidetrack	<input checked="" type="checkbox"/> Other <u>MODIFY</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>8 5/8" PRESSURE TEST</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 recompletes 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.)

Propose to pressure test 8-5/8" casing to 1000 psi in lieu of the 1500 psi specified in original Intent dated 9/22/09.

Justification for request is attached.

Verbal approval given previously

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Debbie McKelvey

Title AGENT

Signature

Debbie McKelvey

Date 12/15/09

ACCEPTED FOR RECORD

APR 7 2010
/s/ Chris WallsBUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

DJS 4-8-10

Dec-15-09 02:00P Lynx Petroleum

505 392-7886

P.01

**Jones Federal 'B' No. 3
8-5/8" casing pressure test sundry info**

Propose to pressure test 8-5/8" casing to 1000 psi in lieu of the 1500 psi

Justification: Formation fracture gradient at 8-5/8" casing shoe is 13.0 ppg EMW.

Surface test pressure at shoe is:

$P_s = (F_g - SF - \phi_m) \times .052 \times D_c$ where

P_s = maximum surface pressure with mud of density ϕ_m in the wellbore, psig

F_g = formation fracture gradient, lb./gal. EMW (equivalent mud weight)

SF = safety factor lb./gal.

ϕ_m = mud density lb./gal.

D_c = true vertical depth of casing, ft.

$$P_s = (13 - 0.5 - 8.33) \times .052 \times 3949 = 856 \text{ psig}$$

All holes in the immediate vicinity (including this one) were drilled using either cut brine (8.6-9.3 ppg) or, in some cases saturated brine (10.0 ppg). Drilling ahead with 10.0 ppg at TD will yield a 1.2 ppg "kick tolerance" with 8-5/8" shoe the limiting surface pressure.