

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM 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.  
NMLC-046250 (b)

6. If Indian, Allottee or Tribe Name

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

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
LRE Operating, LLC

3a. Address

1111 Bagby Street, Suite 4600, Houston, Texas 77002

3b. Phone No (include area code)

713-292-9510

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

1650' FNL and 990' FWL, Sec 29, T17S, R28E, Unit E

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

8. Well Name and No.  
Williams B Federal #1

9. API Well No.  
30-015-35627

10. Field and Pool or Exploratory Area  
Artesia; Glorieta-Yeso (96830)

11. Country or Parish, State  
Eddy County, New Mexico

**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 checked="" 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 checked="" type="checkbox"/> Other <u>Add Perforations to</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>current Perforations</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 recompleat 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 recompleat 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.)

LRE Operating, LLC (current operator as well was formerly operated by Lime Rock Resources A, L.P.), requests approval to add the following perforations:

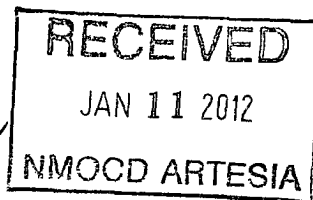
3233', 3242', 3259', 3278', 3309', and 3336', in the Glorieta (2 spf, 0.41" holes, 12 perforations) along with 3460'-3462', 3478', 3494'-3496', 3501-3503' in the Yeso (2 spf, 0.41" holes, 14 perforations),

to existing perforations in the Yeso from 3356' to 3446' (27 perforations in place), and fracture stimulate the Glorieta-Yeso with about:

3500 gal 7-1/5% acid, 79800 gal 20# Borate X-linked gel, 129000#'s 16/30 Brady sand and 18000#'s 16/30 resin coated sand at 65 BPM. Following the fracture stimulation treatment, the well will be cleaned out to a PBD of 3530' MD. Once the wellbore is free of frac sand, the tubing will be run back to 3150', a pump will be added on rods, and the well will be placed back on production.

Accepted for record  
NMOCD

TCS  
1/11/2012



ACCEPTED FOR RECORD

JAN 7 2012

BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

14 I hereby certify that the foregoing is true and correct

Name (Printed/Typed)  
Robert S. (Sid) Ashworth

Title Production Engineer

Signature

*Sid Ashworth*

Date 12/07/2011

**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

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)

**Williams B Federal #1**  
**Sec 29-17S-28E (E)**  
**1650' FNL, 990' FWL**  
**Elevation – 3,607'**  
**API #: 30-015-35627**  
**Eddy County, NM**

**LRE Operating, LLC**  
**PayAdd Workover:**  
**Add Glorieta-Yeso Perforations and Frac Current**  
**AFE W11021**

8-5/8",  
 24#, K-55,  
 ST&C  
 Casing @  
 457'.  
 Circulated  
 130 sx to  
 surface.

- TOH w/ rods, pump N/U BOP.
- TIH w/ 2-7/8" tubing. Tag PBTD. TOOH and clean out wellbore to PBTD is necessary.
- POOH / LD tubing.
- MIRU WLU and add perms from 3,233' – 34', 3,242' – 43', 3,259' – 3,260', 3,278' – 3,279', 3,309' – 3,310' & 3,336' – 37' (6' net, 12 holes – 2 SPF) in the Glorieta and 3,460' – 62', 78' – 79', 94' – 96' & 3,501' – 03' (7' net, 14 holes – 2 SPF) to existing perms @ 3,356' – 3,446' (27' net, 27 holes) in the Upper Yeso RD WLU.
- Breakdown new perms w/ about 3500 gal 7.5% acid and ball sealers
- Frac w/about 129,000# 16/30 sand & 18,000# 16/30 RC sand in 79.8k gal of 25# X-linked gel
- Flow back until pressure falls below 500 psi
- PU 2-7/8" tubing and RIH.
- Run 2-7/8" tbg & tag bottom. Clean out if necessary and POOH. TIH w/ tubing and production equipment to 3,150'.
- Run pump, & rods & initiate producing load water.

2-7/8"; 6.5#, J-55 Tubing @ 3,150' After PayAdd Capital Workover

**GEOLOGY**

<u>Zone</u>	<u>Top</u>
Yates	628'
7 Rivers	740'
Queen	1,044'
Grayburg	1,432'
San Andres	1,834'
Glorieta	3,220'
Yeso	3,334'

**SURVEYS**

<u>Degrees</u>	<u>Depth</u>
3/4°	465'
1/4°	982'
3/4°	1,518'
3/4°	2,536'
1°	3,043'
3/4°	3,575'

**Proposed Perfs:** 3233' – 34', 42' – 43', 59' – 60', 78' – 79', 3,309' – 10', 36' – 37', 3,460' – 62', 78' – 79', 94' – 96' & 3,501' – 03' (2 SPF, 26 holes)

**Proposed Stim:** 3500 gal 7.5% NEFE; Frac w/ 79.8k gal 20 # x-linked Borate gel + 129,000# 16/30 Brady + 18,000# 16/30 CRC.

**Perfs.** 3356', 63, 65, 71, 75, 76, 81, 87, 88, 92, 93, 96, 3400, 04, 11, 12, 16, 17, 18, 19, 20, 25, 26, 32, 33, 40, 46' (1 SPF, 27 holes)

**Stim Info:** 3000 gal 15% NEFE; 20k gal heated 20% HCL, 27.7k gal heated 40# linear gel, 3000 gal 15% HCL cool down (8/15/07)

PBTD @ 3,530'

5-1/2"; 15.5#;  
 K-55; ST&C  
 Casing @  
 3,564'  
 Circulated 16  
 sx to surface.  
 (06/29/2007)

TD @ 3,575'