

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

RECEIVED

MAY 28 2013

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill, re-enter, or
abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

5. Lease Serial No.

NMNM 048344

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

WILLIAMS A FEDERAL #8

3

30-015-36513

10. Field and Pool, or Exploratory Area

Artesia, Glorieta-Yeso (96830)

AND

Eddy County, New Mexico

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

LRE OPERATING, LLC.

3a. Address c/o Mike Pippin LLC

3104 N. Sullivan, Farmington, NM 87401

3b. Phone No. (include area code)

505-327-4573

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

1090' FSL & 1550' FWL Unit N

Sec. 29, T17S, R28E

12. CHECK 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 checked="" type="checkbox"/> Recomplete <input checked="" type="checkbox"/> Other Recomplete to San Andres
	<input type="checkbox"/> Change Plans <input 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 Operations (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 recompleate 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 recompleation 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.)

LRE would like to recompleate this Yeso oil well to the San Andres as follows: MIRUSU. TOH w/rods & pump. Set a 5-1/2" CBP @ ~3150' & PT to ~3500 psi. Perf lower SA @ about 2700'-3031' w/~40 holes. Stimulate w/~3300 gal 15% NEFE HCL acid & frac w/~95,500# 16/30 sand in X-linked gel. Set a 5-1/2" CBP @ ~2650' & PT to ~3500 psi. Perf middle SA @ about 2300'-2601' w/~34 holes. Stimulate w/~3000 gal 15% NEFE HCL acid & frac w/~78,000# 16/30 sand in X-linked gel. Set a 5-1/2" CBP @ ~2250' & PT to ~3500 psi. Perf upper SA @ about 2000'-2200' w/~24 holes. Stimulate w/~2000 gal 15% NEFE HCL acid & frac w/~59,000# 16/30 sand in X-linked gel. CO after frac, drill CBPs & 2250' & 2650' & CO to CBP @ 3150'. Land 2-7/8" tbg @ ~3126' & run pump & rods. Release workover rig & complete as a single San Andres oil well. The existing Glorieta-Yeso perfs (54 holes @ 3371'-3510') will be SI below the CBP @ 3150'. After about two months of San Andres production, the well will be evaluated for DHC.

Accepted for record 5/25/2013

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

Name (Printed/Typed)

Mike Pippin

Title

Petroleum Engineer (Agent)

Signature

Mike Pippin

Date

May 10, 2013

THIS SPACE FOR FEDERAL OR STATE 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

MAY 22 2013

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

Title 18 U.S.C. Section 1001, makes 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.



**LIME ROCK
RESOURCES**

LRE Operating, LLC
San Andres 3 Stage Recompletion
AFE #R13010

**Williams A Federal #8
Sec 29-17S-28E (N)
1090' FSL, 1550' FWL
Elevation – 3,679'
API #: 30-015-36513
Eddy County, NM**

- TOH w/ rods, pump. N/A BOP.
- POOH, run bit and scraper, Test CSG w PKR and RBP, LD tubing.
- MIRU WLU and perforate, acidize, and frac the San Andres in three stages as described below.
- PU 2-7/8" tubing and drill CBP's and clean out to CBP at 3150'.
- TIH w/ tubing (TAC at 1900', SN at 3061', 4' slotted sub, 2 jt MA w BP at ~3126')
- TIH w/pump and rods and turn to production.
- Produce the San Andres interval until production declines
- Produce the San Andres and Yeso when a commingle permit is obtained

8-5/8", 24#, J-55, ST&C Casing @ 420'. 375 sks.
Circulated 140 sx to surface.

2-7/8"; 6.5#, J-55 Tubing, TAC at 1900', SN at 3061', 4' slotted
sub, 2 jt MA w BP at ~ 3126'

Proposed San Andres Perfs and Stimulation

Stage 3 San Andres: 2000'-2200', 1 spf, 24 holes
2000 g 15% HCL acid and 36 bio balls, 35,000 g X-link 20# gel, 45,500 lbs
16/30 Brady, 13,500 lbs 16/30 resin coated sand, staged 1-4.5 ppg, at 65 BPM

Stage 2 San Andres: 2300'-2601', 1 spf, 34 holes
3000 g 15% HCL acid and 51 bio balls, 52,500 g X-link 20# gel, 60,000 lbs 16/30 Brady,
18,000 lbs 16/30 resin coated sand, staged 1-4.5 ppg, at 65 BPM

Stage 1 San Andres: 2700'-3031', 1 spf, 40 holes
3300 g 15% HCL acid and 60 bio balls, 58,000 g X-link 20# gel, 73,000 lbs 16/30 Brady,
22,500 lbs 16/30 resin coated sand, staged 1-4.5 ppg, at 65 BPM.

CBP at
3150'

Perfs: 3,371' – 3,510' (1 SPF, 54 holes) (3/27/09)

Stim Info: 3,500 gal 15% NEFE; 20k gal heated 20%
HCL, 30k gal heated 40# linear gel, 3000 gal 15% HCL
cool down + 4400 gal 40# linear gel. (3/30/09)

PBTD @ 3,538'

5-1/2"; 17#, K-55, ST&C Casing @ 3,603'. 400 sks lead & 400
sks tail. Circulated 137 sx to surface. (01/17/2009). Marker
joints at 3034', 2522', 1999', 1475'.

TD @ 3,603'

GEOLOGY

Zone	Top
Queen	1,147'
Grayburg	1,562'
San Andres	1,871'
Glorietta	3,271'
Yeso	3,364'

SURVEYS

Degrees	Depth
1/2°	939'
1/2°	1,417'
3/4°	1,923'
1°	2,427'
3/4°	2,926'
1-1/2°	3,600'

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-36513		² Pool Code 51300	³ Pool Name RED LAKE, Queen-Grayburg-San Andres
⁴ Property Code 309877	⁵ Property Name WILLIAMS A FEDERAL		⁶ Well Number 8
⁷ OGRID No. 281994	⁸ Operator Name LRE OPERATING, LLC.		⁹ Elevation 3679' GL

¹⁰ Surface Location

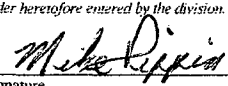
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	29	17-S	28-E		1090	SOUTH	1550	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<div style="text-align: center; font-size: 2em;">29</div>				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well in this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <div style="display: flex; justify-content: space-between;"> <div>  Signature </div> <div>5/10/13 Date</div> </div> <div style="border-top: 1px solid black; padding-top: 5px;"> Mike Pippin Printed Name </div>
				¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 3/25/08 Date of Survey
				Signature and Seal of Professional Surveyor: Dan R. Reddy
				5412 Certificate Number

**Williams A Federal 8
30-015-36513
LRE Operating, LLC.
May 22, 2013
Conditions of Approval**

Notify BLM at 575-361-2822 a minimum of 24 hours prior to commencing work.

Work to be completed by August 22, 2013.

- 1. The operator shall place CIBP at 3300'. Place 25 sx of neat class C cement on top. Tag required.**
- 2. Must conduct a casing integrity test before any perforating or fracturing can be done. Submit results to BLM. The CIT is to be performed on the production casing per Onshore Oil and Gas Order 2.III.B.1.h.**
- 3. If no DHC is done for the Glorieta-Yeso perforations, an NOI must be submitted to isolate the Glorieta formation according to NMOCD regulations.** (This can be done before the well is plugged and/or abandoning the San Andres formation.)
4. Before casing or a liner is added or replaced, prior BLM approval of the design is required. Use notice of intent Form 3160-5.
5. Surface disturbance beyond the originally approved pad must have prior approval.
6. Closed loop system required.
7. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
8. Operator to have H2S monitoring equipment on location.
9. A minimum of a 2000 (2M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (2M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.

10. Subsequent sundry required detailing work done and completion report for the new formation. Operator to include well bore schematic of current well condition when work is complete.

JAM 052213