

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 reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

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

5. Lease Serial No.

NMLC 046250B

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

WILLIAMS B FEDERAL #7

9. API Well No.

30-015-37196

10. Field and Pool, or Exploratory Area

Artesia: Glorieta-Yeso (96830)
Red Lake, San Andres (97253)

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)

2310' FNL & 330' FWL Unit E

Sec. 29, T17S, R28E

RECEIVED

SEP 19 2013

NMOCD ARTESIA

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 & DHC
	<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 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.)

LRE would like to recompleate this Yeso oil well into the San Andres & DHC as follows: MIRUSU. TOH w/rods, pump, & tbg. Set a 5-1/2" CBP @ 3200' & PT to 3500 psi. Perf Lower SA @ ~2800'-3043 w/~26 holes. Treat new perfs w/~2500 gal 15% HCL & frac w/~76,500# 16/30 sand in 20# X-linked gel. Set a 5-1/2" CBP @ 2766' & PT to 3500 psi. Perf middle SA @ ~2518'-2733 w/~27 holes. Treat new perfs w/~2200 gal 15% HCL & frac w/~70,500# 16/30 sand in 20# X-linked gel. Set a 5-1/2" CBP @ 2498' & PT to 3500 psi. Perf Upper SA @ ~2148'-2477 w/~35 holes. Treat new perfs w/~3300 gal 15% HCL & frac w/~100,000# 16/30 sand in 20# X-linked gel. Set a 5-1/2" CBP @ 2100' & PT to 3500 psi. Perf Upper SA @ ~1782'-2009 w/~26 holes. Treat new perfs w/~2300 gal 15% HCL & frac w/~51,000# 16/30 sand in 20# X-linked gel. CO after frac, drill all 4 CBPs & CO to PBDT @ ~3576'. Land 2-7/8" tbg @ ~3550' & run pump & rods. Release workover rig & complete as a commingled SA/Yeso oil well. The existing Glorieta-Yeso perfs are 89 holes @ 3325'-3504'. This work will not start until the DHC applications in Santa Fe & Carlsbad are approved. We plan to utilize a

SUBJECT TO LIKE
APPROVAL BY STATE

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

Name (Printed/Typed)

Mike Pippin

Signature

Mike Pippin

Title

Petroleum Engineer (Agent)

Date

September 6, 2013

THIS SPACE FOR FEDERAL OR STATE USE

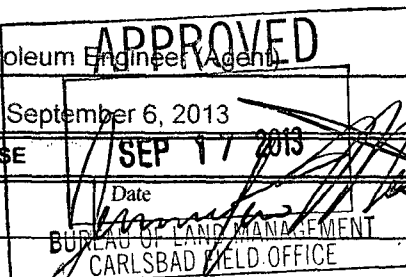
Approved by

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, 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.



District I
1625 N. French Drive, Hobbs, NM 88240

District II
1301 W. Grand Avenue, Artesia, NM 87010

District III
1000 Rio Brazos Road, Aztec, NM 87410

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A
Revised June 10, 2003

Oil Conservation Division

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

APPLICATION TYPE

☒ Single Well
☐ Establish Pre-Approved Pools
EXISTING WELLBORE
☒ Yes ☐ No

APPLICATION FOR DOWNHOLE COMMINGLING

LRE OPERATING, LLC c/o Mike Pippin LLC (agent), 3104 N. Sullivan, Farmington, NM 87401
Operator Address

WILLIAMS B FEDERAL #1 E SEC. 29 T17S R28E Eddy County
Lease Well No. Unit Letter-Section-Township-Range

OGRID No. 281994 Property Code 309867 API No. 30-015-37196 Lease Type: ☒ Federal ☐ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	RED LAKE; -San Andres		ARTESIA: Glorieta-Yeso
Pool Code	97253		96830
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	~1782'-3043'		3325'-3504'
Method of Production (Flowing or Artificial Lift)	Plan to Pump		Pumping
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	690 psi		851 psi
Oil Gravity or Gas BTU (Degree API or Gas BTU)	34.8		38.32
Producing, Shut-In or New Zone	Prospective New Zone		Producing
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: RATES:	Date: Rates:	Date: 9/3/13 Rates: 4 BOPD 82 MCF/D
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas %	Oil Gas %	Oil Gas

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes ☒ No ☐
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes ☐ No ☐

Are all produced fluids from all commingled zones compatible with each other? Yes ☒ No ☐

Will commingling decrease the value of production? Yes ☐ No ☒

If this well is on, or communized with, state or federal lands, has either the Commissioner of Public Lands
or the United States Bureau of Land Management been notified in writing of this application? Yes ☒ No ☐

NMOCD Reference Case No. applicable to this well: _____

Attachments:

- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Mike Pippin TITLE Petroleum Engineer - Agent DATE September 6, 2013

TYPE OR PRINT NAME Mike Pippin TELEPHONE NO. (505) 327-4573

E-MAIL ADDRESS mike@pippinllc.com

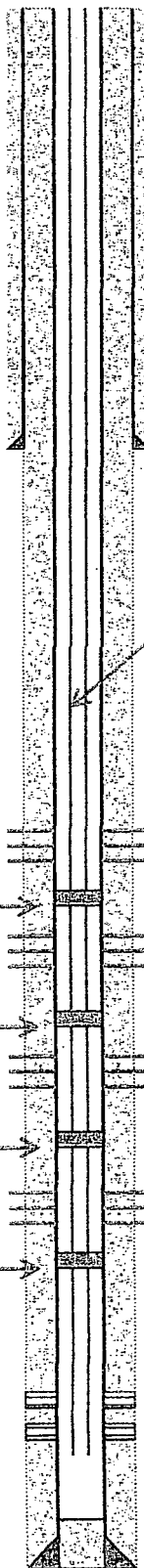


**LIME ROCK
RESOURCES**

LRE Operating, LLC
Proposed 4 Stage San Andres
Recompletion & Commingle With
Yeso
AFE # R13021

Williams B Federal #7
Sec 29-17S-28E (E)
2310' FNL, 330' FWL
Elevation – 3,613'
API #: 30-015-37196
Eddy County, NM

Spud
9/29/09



8-5/8", 24#, J-55, ST&C Casing @ 392'. Cmt w 375
sks. Circulated 170 sx to surface. (9/30/09)

2-7/8", 6.5#, J-55 Tubing, TAC @ 1682', SN @ 3514', 4' slotted sub, 1 jt
MA w BP @ 3550'

San Andres Perfs: Stage # 4
1,782' – 2,009'
(1 & 2 SPF, 0.42" EHD – 26
holes)

Stim Info: 2300 g 15% NEFE HCL & 39 bio
balls; Frac w/37,500 # 16/30 Brady &
13,500 # 16/30 Resin in 20# Xlinked gel

San Andres Perfs: Stage # 3
2,148' – 2,477'
(1 SPF, 0.42" EHD – 35 holes)

Stim Info: 3300 g 15% NEFE HCL & 53 bio
balls; Frac w/82,000 # 16/30 Brady &
18,000 # 16/30 Resin in 20# Xlinked gel

San Andres Perfs: Stage # 2
2,518' – 2,733'
(1 SPF, 0.42" EHD – 27 holes)

Stim Info: 2200 g 15% NEFE HCL & 41 bio
balls; Frac w/52,500 # 16/30 Brady & 18,000 #
16/30 Resin in 20# Xlinked gel

San Andres Perfs: Stage # 1
2,800' – 3,043'
(1 SPF, 0.42" EHD – 26 holes)

Stim Info: 2500 g 15% NEFE HCL & 39 bio balls; Frac w/58,500 #
16/30 Brady & 18,000 # 16/30 Resin in 20# Xlinked gel

Yeso Perfs: 3325'- 3504' (1 SPF, 89 holes)
(10/22/09)

Stim Info: 5408 gal 15% NEFE HCL & 180 bio balls
at 15-18 BPM. 72,575 # 16/30 Brady & 37,043 # 12/20
Brady in Xlinked 20# gel at 60 BPM (10/24/09)

PBTD @ 3,576'

5-1/2", 17#, J-55; LT&C Casing @ 3,617'. 350 sks lead
and 400 sks tail. Circulated 40 sx to surface.
(10/8/2009)

TD @ 3,630'

GEOLOGY

Zone	Top
Queen	1,085'
Grayburg	1,504'
San Andres	1,816'
Glorietta	3,189'
Yeso	3,281'

SURVEYS

Degrees	Depth
1°	405'
3/4°	1036'
1°	1509'
3/4°	2015'
11/4°	2520'
1°	2994'
1 1/4°	3495'
1 1/2°	3626'

WILLIAMS B FEDERAL #007

BBL

140

130

120

110

100

90

80

70

60

50

40

30

20

10

0

MCF

140

130

120

110

100

90

80

70

60

50

40

30

20

10

0

11/15/09

4/15

8/15

12/10

4/6

8/1

11/26

3/22

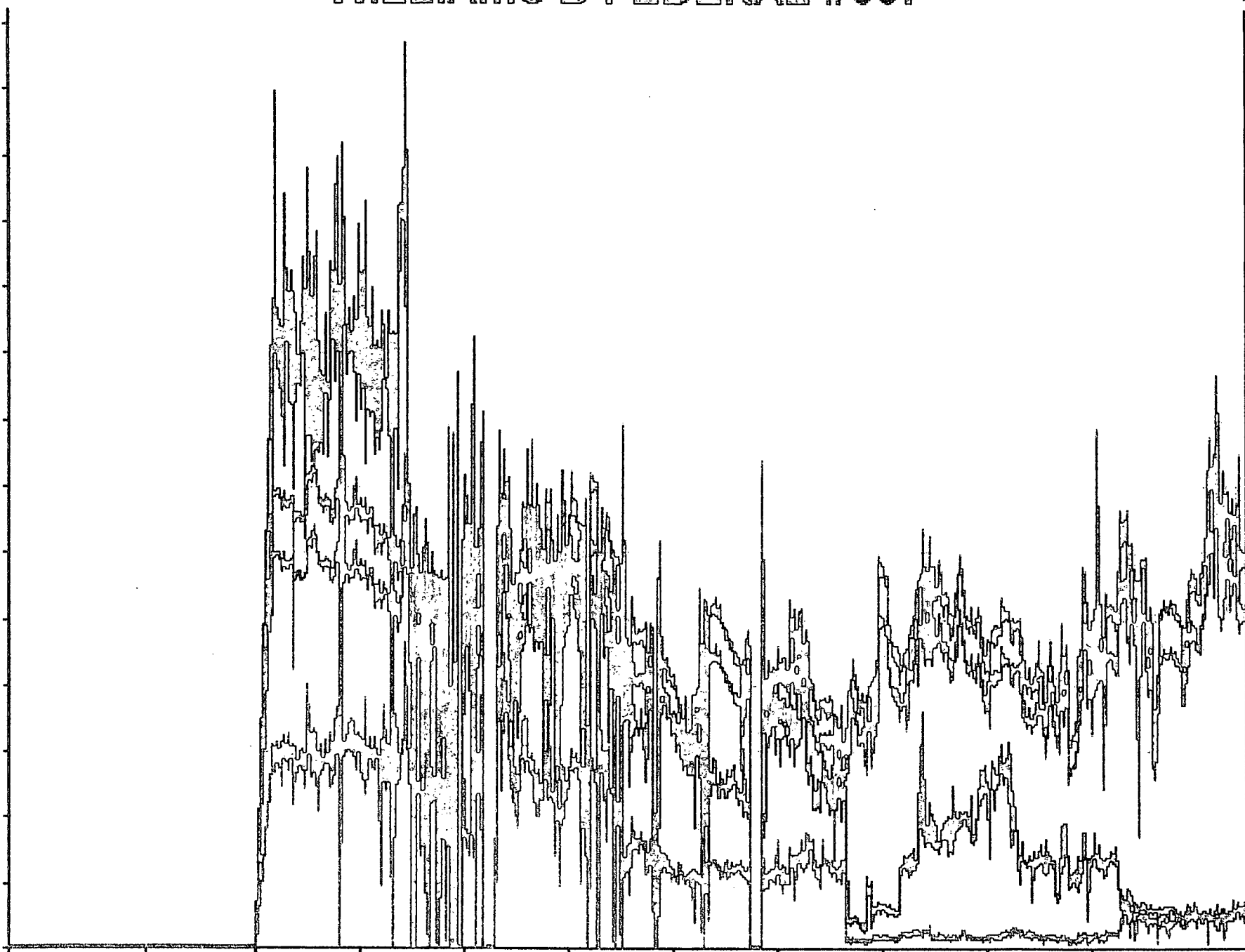
7/18

11/12

3/9

8/29/13

- Gross Oil - Gross Gas - Water - Net Gas Prod



District I

1625 N. French Dr., Hobbs, NM 88240

District II

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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 30-015-37196	² Pool Code 97253	³ Pool Name Red Lake, San Andres
⁴ Property Code 309867	⁵ Property Name WILLIAMS B FEDERAL	⁶ Well Number 7
⁷ OGRID No. 281994	⁸ Operator Name LRE OPERATING, LLC	⁹ Elevation 3613' GL

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
E	29	17-S	28-E		2310	NORTH	330'	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1dn	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;">2310'</div> <div style="text-align: center;">330'</div> <div style="text-align: center;">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 undivided 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. Signature: <u>Mike Pippin</u> Date: <u>8/30/13</u> Mike Pippin Printed Name	
	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. 11/18/08 Date of Survey Signature and Seal of Professional Surveyor: Gary G. Eidson	
	12641 Certificate Number	

DISTRICT I
1025 N. FRANCIS DR., SANTA FE, NM 87505

DISTRICT II
1220 S. CHASE AVENUE, ALBUQUERQUE, NM 87102

DISTRICT III
1025 E. BRUNSON BL., ALBUQUERQUE, NM 87102

DISTRICT IV
1025 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State License - 4 Copies
Fee License - 5 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-37196	Pool Code 96830	Pool Name Artesia; Glorieta-Yeso
Property Code 305444	Property Name WILLIAMS B FEDERAL	Well Number 7
CGED No. 255333	Operator Name LIME ROCK RESOURCES A, L.P.	Elevation 3613'

Surface Location

UL or lot No.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County
E	29	17-S	28-E		2310	NORTH	330	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Inter	Cancellation Code	Order No.
40			

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

<p>330'</p> <p>XXXXXXXXXX</p> <p>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=656936.8 N X=539502.9 E</p> <p>SEE DETAIL</p> <p>LAT.=32.805942° N LONG.=104.204765° W</p> <p>DETAIL</p> <p>3603.9' 3613.4' 600' 3611.4' 3622.2'</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unless mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>George R. Smith</i> 12/29/09 Signature Date George R. Smith POA Agent Printed Name</p> <p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>NOVEMBER 18, 2008 Date Surveyed Signature & Seal of Professional Surveyor 12241 Certificate No. GARY EDDSON 12241 RONALD J. EDDSON 3239</p>
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**Williams B Federal 7
30-015-37196
LRE Operating, LLC.
September 17, 2013
Conditions of Approval**

Work to be completed by December 17, 2013.

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

- 1. 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 to max treating pressure. Contact the BLM if test fails.**
- 2. No DHC shall be done without approval from both the BLM and the State.**
- 3. Operator is approved to drill out the CBPs at 2100', 2498', and 2766' and clean out the well to the CBP at 3200'. Put well on pump.**
- 4. Operator shall produce solely from the San Andres formation in order to establish a typical decline curve obtain reservoir data and submit results to the BLM for future DHC review.**

NOTE: Sundry dated 09/06/2013 for DHC approval will be held until the above mentioned information is received and evaluated.

- 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 091713