

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
OCD Artesia

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

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.

5. Lease Serial No.
LC-057798

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side

8. Well Name and No.
LOGAN 35 FEDERAL #5

9. API Well No.
30-015-30475

10. Field and Pool, or Exploratory Area
Red Lake, Glorieta-Yeso NE (96836)
Red Lake, Qn-Grayburg-San Andres (51300)
AND
Eddy County, New Mexico

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
LIME ROCK RESOURCES II-A, L.P.

3a. Address
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)

2210' FSL & 1950' FWL Unit L
Sec. 35, T17S, R27E

RECEIVED
MAY 20 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"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<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 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
			<input type="checkbox"/> Water Shut-Off
			<input type="checkbox"/> Well Integrity
			<input checked="" type="checkbox"/> Other DHC APPLICATION

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 recomplete 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.)

LIME ROCK requests administrative approval to downhole commingle the existing (TA) Red Lake, Glorieta-Yeso NE (96836) and the existing producing Red Lake, Queen-Grayburg-San Andres (51300). Both intervals have common ownership, & we have not experienced any significant cross flows, & all the fluids are compatible. Downhole commingling will improve recovery of liquids & gas, eliminate redundant surface equipment, & maximize productivity. Notice has been filed concurrently on form C-107A with the State.

Lime Rock plans to commingle by removing the RBP, which is set above the Yeso perms. Lime Rock is requesting approval to commingle the two pools upon completion of rig operations. The production allocation will be calculated by subtracting the total well production after two months of commingled production from the current (San Andres) production of 7 BOPD and 40 MCF/D. We plan to submit these calculations and the resulting allocation to your office after the well has been on line for about 30 days.

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Permit Name (Printed/Typed) **Mike Pippin** Title **NMOCD** Date **April 1, 2013**
Signature *Mike Pippin* Date **April 1, 2013**
Petr. Engr. (Agent)

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	

APPROVED
MAY 16 2013
[Signature]
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.

SUBJECT TO LIKE APPROVAL BY STATE

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

District II
1301 W. Grand Avenue, Arroyo, NM 88210

District III
1900 Rio Grande Road, Adick, NM 87410

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87503

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

LIME ROCK RESOURCES II-A, L.P. c/o Mike Pippin LLC (agent), 3104 N. Sullivan, Farmington, NM 87401
Operator Address

LOGAN 35 FEDERAL #5 Well No. **K SEC. 35 T17S R27E** Eddy County
Lease Unit Letter-Section-Township-Range

OGRID No. 277558 Property Code 308970 API No. 30-015-30475 Lease Type: Federal State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	RED LAKE; Queen-Grayburg-San Andres		RED LAKE: Glorieta-Yeso NE
Pool Code	51300		96836
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	1989'-2922'		3061'-3274'
Method of Production (Flowing or Artificial Lift)	Pumping		Plan to Pump
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	Producing		Shut-in below RBP
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: 10/31/12 RATES: 7 BOPD 40 MCF/D 8 BWPD	Date: Rates:	Date: Rates:
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 communitized 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 March 29, 2013

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

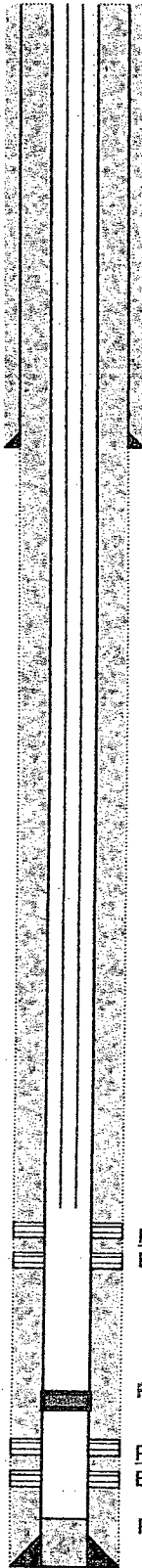
E-MAIL ADDRESS mike@pippinllc.com



LIME ROCK
RESOURCES

Proposed Remove RBP and Comingle

Logan 35 Federal #5
Sec 35-17S-27E (NE K)
2210' FML, 1950' FWL
Elevation - 3,622' GR
3,634' KB
API # 30-015-30475
Eddy County, NM



8-5/8", 24#, J-55 ST&C Casing @ 1,142'. Circ 90 sx to Surface. (12/30/2000)

Perfs: 1,989' - 2,922' (1 SPF - 43 holes @ 0.41" EHD)

Stimulation: 3,000 gal 15% HCL NEFE. Frac w/ 330,000 gal of gel carrying 244,700# of 16/30 sand.

Remove RBP at 3,011'

Perfs: 3,061' - 3,274' (1 SPF - 25 holes @ 0.40" EHD)

Stimulation: 2,000 gal 15% HCL NEFE w/ 50 1(.3 SG) Balls Sealers. Frac w/ 115,000 gal of gel carrying 60,000# of 20/40 sand.

PBTD @ 3,743'

5-1/2", 17#, J-55; ST&C Casing @ 3,795'. Circ 90 sx to Surface. (1/05/2001)

TD @ 3,797'

GEOLOGY

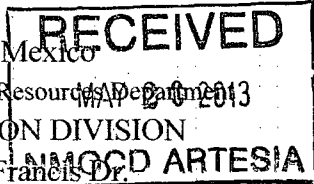
Zone	Top
Bowers	689'
Queen	886'
Grayburg	1,306'
Premier	1,578'
San Andres	1,618'
Glorieta	2,960'
Yeso	3,040'

SURVEYS

Degrees	Depth
1	197'
1	346'
3/4	557'
1/2	1,135'
3/4	2,118'
1/4	2616'
3/4	3,111'
1/2	3,603'
1	3,758'

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-10
Revised October 12, 2007
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-30475		² Pool Code 96836		³ Pool Name Red Lake; Glorieta-Yeso NE	
⁴ Property Code 308970		⁵ Property Name LOGAN 35 FEDERAL			⁶ Well Number 5
⁷ OGRID No. 277558		⁸ Operator Name LIME ROCK RESOURCES II-A, L.P.			⁹ Elevation 3622' 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
K	35	17-S	27-E		2210	SOUTH	1950	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.			

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.

	¹⁷ OPERATOR CERTIFICATION	
	<p>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 leased 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Mike Pippin</i> 3/29/13 Signature Date</p> <p>Mike Pippin Printed Name</p>	
	¹⁸ SURVEYOR CERTIFICATION	
<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>7/24/98 Date of Survey</p> <p>Gary L. Jones Signature and Seal of Professional Surveyor</p> <p>7977 Certificate Number</p>		

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NMOCD ARTESIA

EXHIBIT # 2

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Instruction on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

OIL CONSERVATION DIVISION

DISTRICT III
1000 Rio Brazos Rd., Artesia, NM 87410

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 51300	Pool Name Red Lake (Q-GB-SA)
Property Code	Property Name LOGAN "35" FEDERAL	Well Number 5
OGRID No. 6137	Operator Name DEVON ENERGY CORP.	Elevation 3622'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	35	17 S	27 E		2210	SOUTH	1950	WEST	EDDY

Bottom Hole Location If Different From Surface

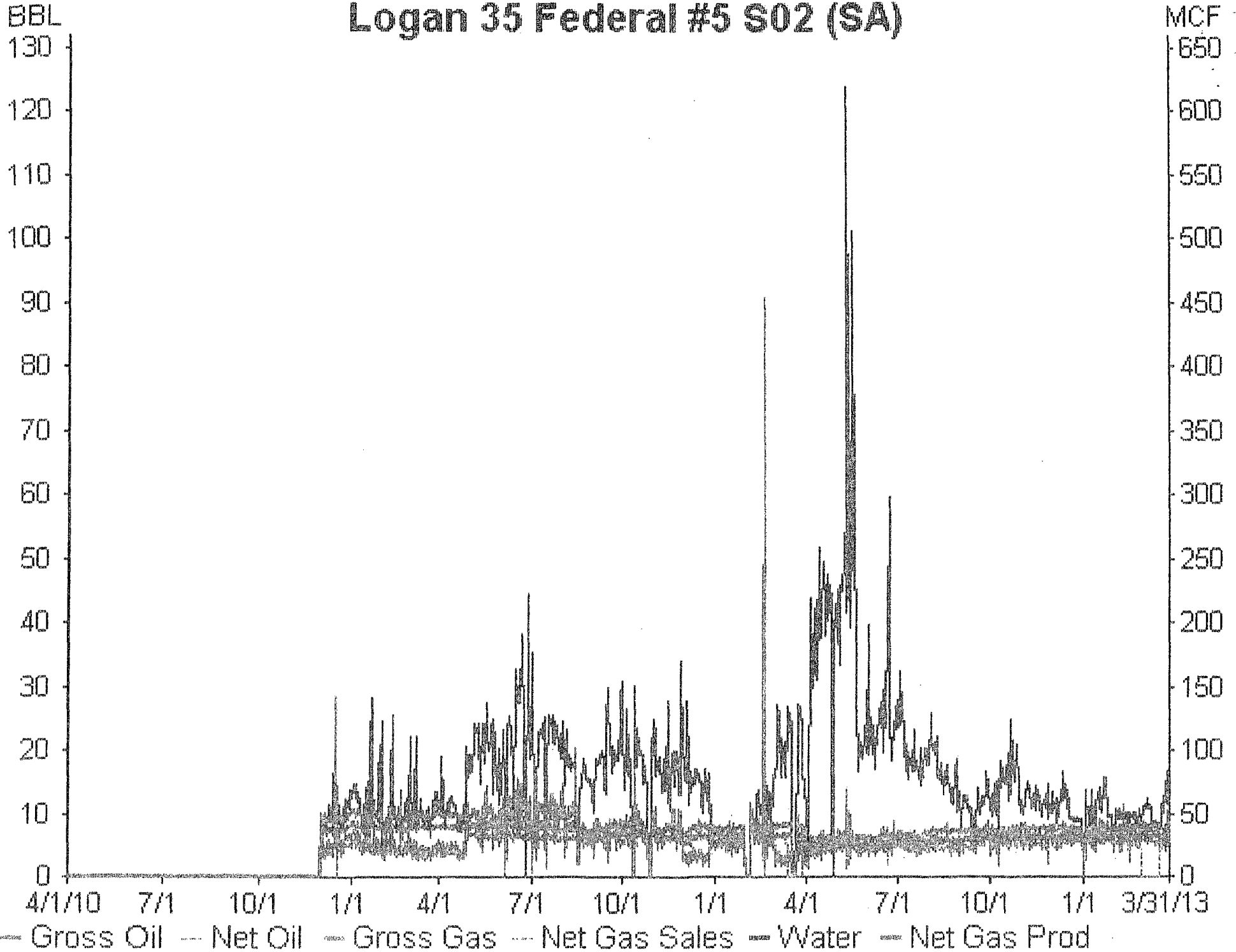
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

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 style="text-align: center;">OPERATOR CERTIFICATION</p> <p><i>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</i></p> <p style="text-align: center;"><i>E. L. Buttross Jr.</i> Signature</p> <p style="text-align: center;">E.L. Buttross, Jr. Printed Name</p> <p style="text-align: center;">District Engineer Title</p> <p style="text-align: center;">8/26/98 Date</p> <hr/> <p style="text-align: center;">SURVEYOR CERTIFICATION</p> <p><i>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.</i></p> <p style="text-align: center;">Date Surveyed JULY 26 1998</p> <p style="text-align: center;">Signature Professional Surveyor</p> <p style="text-align: center;">7977</p> <p style="text-align: center;">P.O. No. 8297M</p> <p style="text-align: center;">Certificate No. 7977</p>
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Logan 35 Federal #5 S02 (SA)



Logan 35 Federal 5
30-015-30475
Lime Rock Resources II-A, L.P.
May 16, 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 16, 2013.

- 1. Must conduct a casing integrity test before any work 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.** Make arrangements 24 hours before the test for BLM to witness. E-mail Paul R. Swartz pswartz@blm.gov or phone 575-200-7902, if there is no response, 575-361-2822. If no answer, leave a voice mail or email with the API#, workover purpose, and a call back phone number. Note the contact, time, & date in your subsequent report.
- 2. If test fails, a remedial plan must be submitted to the BLM and approved before any work can be done.**
- 3. Operator shall perform a production test on the Red Lake, Glorieta-Yeso NE and the Red Lake, Queen-Grayburg- San Andres individually and submit results to the BLM.**
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 with both formations. The completion report shall include production from each formation. Operator to include well bore schematic of current well condition when work is complete.**

JAM 051613