

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Lime Rock Resources A, L.P.

3a. Address

Heritage Plaza, 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)

Unit O, 330' FSL & 1,650' FEL Section 29-T26S-R33E

5. Lease Serial No.

NM 67717

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

304067
Arapahoe "AKP" Federal #1

9. API Well No.

30-025-31540

10. Field and Pool or Exploratory Area

Rattlesnake Flat, Delaware

11. Country or Parish, State

Lea 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 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 type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" 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	

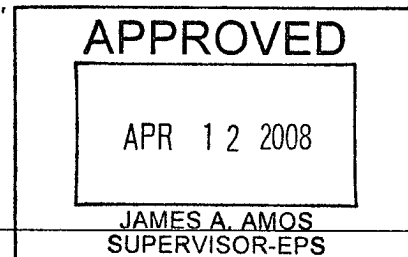
13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths 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.)

Plugging Procedure:

1. Pull rods and pump. Load hole with mud. POOH with tubing.
2. Set 5-1/2" cast iron bridge plug at 4,770' and dump 35' cement on top of plug.
3. Perforate 5-1/2" casing at 2,770'. Spot cement plug from 2,770' to 2,670'. Tag top of plug.
4. Perforate 5-1/2" casing at 772'. Spot cement plug from 772' to 672'. Tag top of plug.
5. Perforate 5-1/2" casing at 80'. Circulate cement back to surface.
6. Cut off wellhead and install dry hole marker.
7. Cut off anchors, fill in cellar, and restore location.

Spot 30 sx plug on top of CIBP. Covers CIBP and B/Salt
No lower
Than 2650,
120' plug.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**



14 I hereby certify that the foregoing is true and correct Name (Printed/Typed)

C. Tim Miller

Title

Vice President - Operations

Signature

C. Tim Miller

Date

4/1/08

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

PETROLEUM ENGINEER

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

KTB

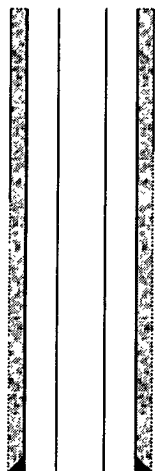
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)



LIME ROCK
RESOURCES

EXISTING



8-5/8", 24#, J-55, ST&C Surface Casing @ 722'

TOC @ 4,000'

Delaware Perfs: 4,820-30'; 4,837-39'; 4,846-52' & 4,855-59 (32 - 0.42" DIA holes)

Delaware Perfs: 4,892-98' (14 - 0.42" DIA holes)

PBTD @ 5,032'

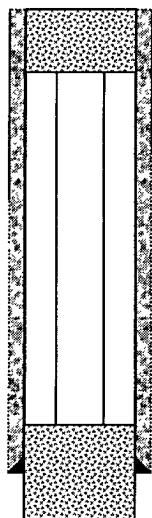
5-1/2"; 15.5#, J-55; LT&C Casing @ 5,197'

Cement plug
from 5,197-
5,300'

TD @ 6,815'

Lime Rock Resources
Arapaho AKP Federal 1
Sec 29O-26S-33E
Lea County, NM

PROPOSED ABANDONMENT



**Perforate @ 80'
and circulate
cement back
to surface**

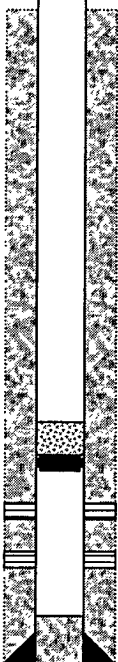
8-5/8", 24#, J-55, ST&C Surface Casing @ 722'

Perforate @ 772' and spot 35 sx plug from 772' to 672' (tag top of plug)



Perforate @ 2,770' and spot 35 sx plug from 2,770' to 2,670' (tag top of plug)

TOC @ 4,000'



Cast Iron Bridge Plug @ 4,770' w/ 35' cement on top of plug

Delaware Perfs: 4,820-30'; 4,837-39'; 4,846-52' & 4,855-59 (32 - 0.42" DIA holes)

Delaware Perfs: 4,892-98' (14 - 0.42" DIA holes)

PBTD @ 5,032'

5-1/2"; 15.5#; J-55; LT&C Casing @ 5,197'

Cement plug
from 5,197-
5,300'

TD @ 6,815'

**Lime Rock Resources
Arapaho AKP Federal 1
Sec 29O-26S-33E
Lea County, NM**

BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972

Permanent Abandonment of Federal Wells
Conditions of Approval

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within ninety (90) days from the approval date of this Notice of Intent to Abandon.

If you are unable to plug the well by the 90th day, provide this office, prior to the 90th day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-393-3612.

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet, and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. In lieu of a cement plug in a cased hole, a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient.

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

6. **Dry Hole Marker:** All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement. The following information shall be permanently inscribed on the dry hole marker: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds).

7. **Subsequent Plugging Reporting:** Within 30 days after plugging work is completed, file one original and five copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**

8. **Trash:** All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration conditions of approval will be developed and furnished to you