Form 3160-4
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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NMOCD ARTESIA

FORM APPROVED
OMB NO. 1004-0137
Expires: November 30, 2000

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. LC-057798

1a. Type of Well ☒ Oil Well ☐ Gas ☐ Dry Other
b. Type of Completion: ☐ New ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other: Commingle DHC-4457

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator
LIME ROCK RESOURCES II-A, L.P. c/o Mike Pippin LLC (Agent)

8. Lease Name and Well No.
LOGAN 35 FEDERAL #1

3. Address
3104: N. Sullivan, Farmington, NM 87401

3a. Phone No. *(include area code)*
505-327-4573

9. API Well No.
30-015-36081

4. Location of Well *(Report locations clearly and in accordance with Federal requirements)* *

At surface 1520' FSL & 1280' FEL Unit (I) Sec. 35, T17S, R27E

At top prod. interval reported below

At total depth

10. Field and Pool, or Exploratory
RED LAKE: Qu-Gray-SA (51300)
RED LAKE, Glorieta-Yeso NE (96836)

11. Sec., T., R., M., or Block and Survey or Area I 35 17 27

12. County or Parish Eddy

13. State NM

14. Date Spudded	15. Date T.D. Reached	16. Date Completed	17. Elevations (DF, RKB, RT, GL)*
04/15/08	04/19/08	☐ P & A ☒ Ready to Prod. COMGL: 6/20/12	3638' GL

18. Total Depth: MD / TVD	19. Plug Back T.D.: MD / TVD	20. Depth Bridge Plug Set: MD / TVD
3585'	3538'	

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
Induction & Density Neutron

22. Was well cored ☒ No ☐ Yes (Submit copy)
Was DST run? ☒ No ☐ Yes (Submit copy)
Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
11"	8-5/8"	24#	0'	1180'		420 sx, C		Surface	0'
7-7/8"	5-1/2"	15.5#	0'	3585'		597 sx, C		Surface	0'

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Set (MD)
2-7/8"	3434'							

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	San Andres	1696'	3060'	2056'-2345'	0.38"		Open
B)	Glorieta-Yeso	3164'		3041'-3453'			Open

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and type of Material
2056'-2345'	3000 gal 15% HCL, & fraced w/116,809# 20/40 Brady, & 22,976# 16/30 Siber Prop sand
3041'-3453'	3000 gal 15% HCL, & fraced w/15,500# 14/30 Lite Prop 125 & 20,500# 16/30 Siber Prop sand

ACCEPTED FOR RECORD
DEC 16 2012
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

28. Production - **Interval A**

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water	Oil Gravity Corr.	Gas Gravity	Production Method
	12/16/10		→	12	60				Pumping

Choke Size	Tbg. Press. Flwg. PSI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water	Gas : Oil Ratio	Well Status
			→	12	60			Pumping

28a. Production - **Interval B+A**

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water	Oil Gravity Corr.	Gas Gravity	Production Method
	07/21/12		→	40	119				Pumping

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water	Gas : Oil Ratio	
			→	40	119			Pumping

(See instructions and spaces for additional data on reverse side)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr.	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr.	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*

To Be Sold

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
San Andres	1696'	3060'	Oil & Gas		Depth
Glorieta	3060'	3164'	Oil & Gas	San Andres	1696'
Yeso	3164'		Oil & Gas	Glorieta	3060'
				Yeso	3164'

32. Additional remarks (include plugging procedure):

LOGAN 35 FEDERAL #1 Commingle

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
5. Core Analysis
7. Other:

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name *(please print)* Mike Pippin 505-327-4573 Title Petroleum Engineer (Agent)

Signature Mike Pippin Date December 3, 2012

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 U. States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

o U.S. GPO: 1999-573-624

LIME ROCK RESOURCES II-A, L.P.
LOGAN 35 FEDERAL #1
Red Lake; Glorieta-Yeso NE & Red Lake, Queen-Grayburg-San Andres
I Section 35 T17S R27E
11/30/2012 – Mike Pippin
API#: 30-015-36081

Commingle Allocation Calculations

On 12/16/10, the upper zone (San Andres) tested at **12 BOPD & 60 MCF/D** from San Andres perfs 2056'-2345'.

On 6/15/12, the RBP above the lower zone (Yeso) perfs 3041'-3453' was pulled, which commingled the Yeso with the San Andres.
On 7/21/12, the commingled Yeso & San Andres tested for **40 BOPD & 119 MCF/D**.

Therefore, lower zone (Yeso) oil production is 40-12=28 BOPD.
Therefore, lower zone (Yeso) gas production is 119-60=59 MCF/D.

RECOMMENDED NEW OIL ALLOCATION

% Lower Zone = $\frac{28}{40}$ = **70%**

% Upper Zone = $\frac{12}{40}$ = **30%**

RECOMMENDED NEW GAS ALLOCATION

% Lower Zone = $\frac{59}{119}$ = **50%**

% Upper Zone = $\frac{60}{119}$ = **50%**