

Form 3160-4  
(August 2007)

RECEIVED  
FEB 28 2017 UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No.  
NMNM7716

1a. Type of Well  Oil Well  Gas Well  Dry  Other  
 b. Type of Completion  New Well  Work Over  Deepen  Plug Back  Diff. Resvr.  
 Other \_\_\_\_\_

2. Name of Operator **LIME ROCK RESOURCES II A LP** Contact: **MIKE PIPPIN**  
E-Mail: **MIKE@PIPPINLLC.COM**

3. Address **1111 BAGBY STREET SUITE 4600 HOUSTON, TX 77002** 3a. Phone No. (include area code) **Ph: 505-327-4573**

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
 At surface **NWNW 330FNL 990FWL**  
 At top prod interval reported below **NWNW 330FNL 990FWL**  
 At total depth **NWNW 330FNL 990FWL**

6. If Indian, Allottee or Tribe Name \_\_\_\_\_  
 7. Unit or CA Agreement Name and No. \_\_\_\_\_

8. Lease Name and Well No.  
**VANDAGRIFF 8 D FEDERAL 4**

9. API Well No.  
**30-015-40805-00-S1**

10. Field and Pool, or Exploratory  
**RED LAKE-GLORIETA-YESO**

11. Sec., T., R., M., or Block and Survey or Area **Sec 8 T18S R27E Mer NMP**

12. County or Parish **EDDY** 13. State **NM**

14. Date Spudded **11/18/2012** 15. Date T.D. Reached **11/23/2012** 16. Date Completed  D & A  Ready to Prod. **08/26/2016**

17. Elevations (DF, KB, RT, GL)\*  
**3418 GL**

18. Total Depth: MD **4441** TVD **4441** 19. Plug Back T.D.: MD **4394** TVD **4394** 20. Depth Bridge Plug Set: MD **TVD**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
**INDUCTION&DENSI**

22. Was well cored?  No  Yes (Submit analysis)  
 Was DST run?  No  Yes (Submit analysis)  
 Directional Survey?  No  Yes (Submit analysis)

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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.250	8.625 J-55	24.0	0	436		310	75	0	0
7.875	5.500 J-55	17.0	0	4441		955	260	0	0

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	4195							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GLORIETA YESO	2620	4370	2620 TO 2950	0.420	34	OPEN - pay add
B)			3050 TO 4078	0.410	127	OPEN - Yeso
C)			4180 TO 4370	0.420	22	OPEN - pay add
D)						

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

Depth Interval	Amount and Type of Material
2620 TO 2950	1500 GAL 15% HCL & FRACED W/29,820# 100 MESH & 345,694# 40/70 OTTAWA SAND IN SLICK WATER
3050 TO 3344	2000 GAL 7.5% HCL & FRACED W/83,156# BRADY & 27,027# SIBER PROP 16/30 SAND IN X-LINKED GEL
3400 TO 3716	2000 GAL 7.5% HCL & FRACED W/91,213# BRADY & 16,908# SIBER PROP 16/30 SAND IN X-LINKED GEL
3768 TO 4078	2000 GAL 7.5% HCL & FRACED W/85,562# BRADY & 12,561# SIBER PROP 16/30 SAND IN X-LINKED GEL **

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
08/26/2016	09/18/2016	24	→	82.0	132.0	535.0			ELECTRIC PUMPING UNIT
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
SI			→	82	132	535	1610	POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
SI			→						

**ACCEPTED FOR RECORD**  
**ORIG. SCDJ DAVID R. GLASS**

(See Instructions and spaces for additional data on reverse side)  
 ELECTRONIC SUBMISSION #351642 VERIFIED BY THE BLM WELL INFORMATION SYSTEM  
**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

FEB 10 2017  
**DAVID R. GLASS**  
**PETROLEUM ENGINEER**

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	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. API	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.)  
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
GLORIETA	2557	2642	OIL & GAS	QUEEN	532
YESO	2642	4125	OIL & GAS	GRAYBURG	932
TUBB	4125	4441	OIL & GAS	SAN ANDRES	1484
				GLORIETA	2557
				YESO	2642
				TUBB	4125

32. Additional remarks (include plugging procedure):  
THIS FORM IS FOR A YESO PAYADD WORKOVER.

\*\*  
#44: 4180'-4370'; 1500 GAL 15% HCL & FRACED W/29,820# 100 MESH & 345,694# 40/70 OTTAWA SAND IN SLICK WATER.

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 | 6. Core Analysis   | 7 Other:      |                       |

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

**Electronic Submission #351642 Verified by the BLM Well Information System.  
For LIME ROCK RESOURCES II A LP, sent to the Carlsbad  
Committed to AFMSS for processing by DEBORAH HAM on 01/25/2017 (17DMH0040SE)**

Name (please print) MIKE PIPPIN Title PETROLEUM ENGINEER

Signature \_\_\_\_\_ (Electronic Submission) Date 09/19/2016

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.

**\*\* REVISED \*\* REVISED \*\***