

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMLC070678A

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 1165FNL 230FWL**
 At top prod interval reported below **SWNW 1710FNL 368FWL**
 At total depth **SWNW 1707FNL 351FWL**

6. If Indian, Allottee or Tribe Name
 7. Unit or CA Agreement Name and No.
 8. Lease Name and Well No.
HAWK 8 E FEDERAL 48
 9. API Well No.
30-015-43219-00-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
09/11/2016 15. Date T.D. Reached
09/18/2016 16. Date Completed
 D & A Ready to Prod.
10/31/2016
 17. Elevations (DF, KB, RT, GL)*
3391 GL

18. Total Depth: MD **4883** TVD **4883** 19. Plug Back T.D.: MD **4804** TVD **4804** 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
11.000	8.625 J-55	24.0	0	355		300	71	0	0
7.875	5.500 J-55	17.0	0	4861		1040	281	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)
3.500	2668							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GLORIETA YESO	2604	4696	2740 TO 3020	0.410	33	OPEN
B)			3110 TO 3450	0.410	33	OPEN
C)			3680 TO 4050	0.410	35	OPEN
D)			4290 TO 4696	0.410	33	OPEN

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

Depth Interval	Amount and Type of Material
2740 TO 3020	978 GAL 15% HCL & FRACED W/29,859# 100 MESH & 123,060# 40/70 SAND IN SLICK WATER
3110 TO 3450	978 GAL 15% HCL & FRACED W/29,859# 100 MESH & 312,306# 40/70 SAND IN SLICK WATER
3680 TO 4050	1217 GAL 15% HCL & FRACED W/31,567# 100 MESH & 368,662# 40/70 ARIZONA SAND IN SLICK WATER
4290 TO 4696	1500 GAL 15% HCL & FRACED W/31,692# 100 MESH & 382,494# 40/70 SAND IN SLICK WATER

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
10/31/2016	11/17/2016	24	→	78.0	200.0	1620.0			OTHER
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→	78	200	1620	2564	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. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

ACCEPTED FOR RECORD
DAVID R. GLASS
PETROLEUM ENGINEER
FEB 13 2017

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

ELECTRONIC SUBMISSION #358943 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

DAVID R. GLASS
PETROLEUM ENGINEER

RECLAMATION DUE:
MAY 01 2017

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	2604	2686	OIL & GAS	QUEEN	471
YESO	2686	4224	OIL & GAS	GRAYBURG	942
TUBB	4224	4883		SAN ANDRES	1170
				GLORIETA	2604
				YESO	2686
				TUBB	4224

32. Additional remarks (include plugging procedure):
THIS IS FOR A NEW YESO OIL WELL.

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 #358943 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 01/30/2017 (17DMH0060SE)**

Name (please print) MIKE PIPPIN Title PETROLEUM ENGINEER

Signature _____ (Electronic Submission) Date 11/26/2016

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.