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Form 3160-4  
 (August 2007)

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 RECEIVED

Lease Serial No.  
 NMNM89156

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			6. If Indian, Allottee or Tribe Name		
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other			7. Unit or C/A Agreement Name and No.		
2. Name of Operator LIME ROCK RESOURCES II A LP Contact: MIKE PIPPIN E-Mail: MIKE@PIPPINLLC.COM			8. Lease Name and Well No. HAWK 8 N FEDERAL 50		
3. Address 1111 BAGBY STREET SUITE 4600 HOUSTON, TX 77002		3a. Phone No. (include area code) Ph: 505-327-4573	9. API Well No. 30-015-43277-00-S1		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SESW 455FSL 1980FWL At top prod interval reported below SESW 955FSL 1680FWL At total depth SESW 957FSL 1683FWL			10. Field and Pool, or Exploratory RED LAKE-GLORIETA-YESO		
14. Date Spudded 08/13/2016			15. Date T.D. Reached 08/23/2016	16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 09/23/2016	17. Elevations (DF, KB, RT, GL)* 3433 GL
18. Total Depth: MD 4894 TVD 4800		19. Plug Back T.D.: MD 4820 TVD 4737	20. Depth Bridge Plug Set: MD TVD		
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) INDUCTION&DENSI			22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> 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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Puffed
11.000	8.625 J-55	24.0	0	353		564	133	0	0
7.875	5.500 J-55	17.0	0	4878		875	241	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		2696						

25. Producing Intervals			26. Perforation Record			
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GLORIETA YESO	2894	4687	2894 TO 3220	0.410	33	OPEN
B)			3288 TO 3620	0.410	33	OPEN
C)			3700 TO 4068	0.410	34	OPEN
D)			4352 TO 4687	0.420	32	OPEN

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

Depth Interval	Amount and Type of Material
2894 TO 3220	1500 GAL 15% HCL & FRACED W/30,338# 100 MESH & 308,570# 40/70 SAND IN SLICK WATER
3288 TO 3620	1500 GAL 15% HCL & FRACED W/30,536# 100 MESH & 321,080# 40/70 SAND IN SLICK WATER
3700 TO 4068	1500 GAL 15% HCL & FRACED W/30,539# 100 MESH & 360,584# 40/70 SAND IN SLICK WATER
4352 TO 4687	1512 GAL 15% HCL & FRACED W/30,547# 100 MESH & 263,786# 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
10/07/2016	10/17/2016	24	→	88.0	100.0	1324.0			OTHER
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
SI	SI		→	88	100	1324	1136	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	SI		→						

ACCEPTED FOR RECORD  
 DAVID R. GLASS  
 OCT 26 2016

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

ELECTRONIC SUBMISSION #355344 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

DAVID R. GLASS  
 PETROLEUM ENGINEER

RECLAMATION DUE:  
 MAR 23 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	Thp Press B/wp 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	Thp Press B/wp 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 YESO	2894	4687	OIL & GAS	QUEEN GRAYBURG SAN ANDRES GLORIETA YESO	638 1076 1305 2774 2863

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 #355344 Verified by the BLM Well Information System.  
For LIME ROCK RESOURCES II A LP, sent to the Carlsbad  
Committed to AFMSS for processing by JENNIFER SANCHEZ on 10/26/2016 (17JAS0030SE)**

Name (please print) MIKE PIPPIN

Title PETROLEUM ENGINEER

Signature \_\_\_\_\_ (Electronic Submission)

Date 10/20/2016

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.