

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018

**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.*

5. Lease Serial No.  
NMLC065478B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.  
MNM117973

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

**Carlsbad Field Office**  
**OCD Artesia**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. HORSETAIL 9 FEDERAL 1
2. Name of Operator LIME ROCK RESOURCES II A LP Contact: MIKE PIPPIN E-Mail: MIKE@PIPPINLLC.COM		9. API Well No. 30-015-34171-00-S1
3a. Address 1111 BAGBY STREET SUITE 4600 HOUSTON, TX 77002	3b. Phone No. (include area code) Ph: 505-327-4573	10. Field and Pool or Exploratory Area SCOGGIN DRAW
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 9 T18S R27E SESE 1261FSL 1144FEL		11. County or Parish, State EDDY COUNTY, NM

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"/> Hydraulic Fracturing	<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 checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input 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 recomplete 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 recompletion 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.

THIS IS A REQUEST TO RECOMPLETE TO YESO.

MIRUSU. TOH w/production equipment. CO to 9580'. Set 5-1/2" RBP @ 4800' & PKR @ 4770' & PT 5-1/2" csg & RBP to 4200 psi for 30 min. TOH. Set a 5-1/2" CIBP @ 9580' & top w/25 sx cmt (226'). PT CIBP & 5-1/2" csg to 3500 psi. Set a 5-1/2" CBP @ 4800' & PT to 4200 psi. Perf Yeso @ 4165'-4531' w/31 holes. Treat new perfs w/1500 gal 15% HCL acid & frac w/30,000# 100 mesh & 338,940# 40/70 sand in slick water. Set 5-1/2" CBP @ 4080' & PT to 4200 psi. Perf Yeso @ 3720'-4006' w/29 holes. Treat new Yeso perfs w/1500 gal 15% HCL & frac w/30,000# 100 mesh & 258,930# 40/70 sand in slick water. Set 5-1/2" CBP @ 3685' & PT to 4200 psi. Perf Yeso @ 3300'-3651' w/38" holes. Treat new Yeso perfs w/1500 gal 15% HCL & frac w/30,000# 100 mesh & 327,810# 40/70 sand in slick water. MIRUSU. CO after frac, drill CBPs @ 3685' & 4080', & CO to CBP @ 4800'. Land ESP on 2-7/8" 6.5#

*GC Accepted for record - NMOCD 5-24-18*

RECEIVED

MAY 23 2018

DISTRICT II-ARTESIA O.C.D.

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #408983 verified by the BLM Well Information System  
For LIME ROCK RESOURCES II A LP, sent to the Carlsbad  
Committed to AFMSS for processing by PRISCILLA PEREZ on 03/26/2018 (18PP1393SE)**

Name (Printed/Typed) MIKE PIPPIN	Title PETROLEUM ENGINEER
Signature (Electronic Submission)	Date 03/22/2018

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By <u>/s/ Jonathon Shepard</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>05/16/2018</u>
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 <u>CFO</u>

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)

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

Additional data for EC transaction #408983 that would not fit on the form

**32. Additional remarks, continued**

L-80 tbg @ 3250'. Release completion rig. Complete the well as a single Yeso oil well. See the attached C-102 for the Yeso & the proposed WBD.

District I  
1625 N. Beach Dr., Hobbs, NM 88240

District II  
1301 W. Grand Avenue, Artesia, NM 88210

District III  
1000 Rio Brazos Rd., Aztec, NM 87410

District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

**AS DRILLED**

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-015-34171		<sup>2</sup> Pool Code 51120		<sup>3</sup> Pool Name Red Lake, Glorieta-Yeso	
<sup>4</sup> Property Code 320851		<sup>5</sup> Property Name <b>HORSETAIL 9 FEDERAL</b>			<sup>6</sup> Well Number <b>1</b>
<sup>7</sup> OGRID No. 277558		<sup>8</sup> Operator Name <b>LIME ROCK RESOURCES II-A, L.P.</b>			<sup>9</sup> Elevation 3505' GL

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	9	18-S	27-E		1261	SOUTH	1144	EAST	EDDY

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	9	18-S	27-E		1088	SOUTH	974	EAST	EDDY

<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

9	SURFACE LOCATION	AS DRILLED LOCATION	<p><sup>17</sup> <b>OPERATOR CERTIFICATION</b> <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p style="text-align: right;">3/23/18</p> <p>Signature _____ Date _____</p> <p><u>Mike Pippin</u> Printed Name</p>	
	1261'	1088'		<p><sup>18</sup> <b>SURVEYOR CERTIFICATION</b> <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p>5/12/05</p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor: Macon McDonald</p> <p>12185</p> <p>Certificate Number _____</p>
	1144'	974'		

<b>LIME ROCK RESOURCES</b>	County	EDDY	Well Name	Horsetail 9 Federal #1	Field:	East Artesia Glorieta-Yeso	Well Sketch:	AFE R18002 LRR II-A, L.P.
	Surface Lat:	32.453042°N	BH Lat:	32.453042°N	Survey:	S9-T18S-R27E (NW of P)	API #	30-015-34171
	Surface Long:	104.164138°W	BH Long:	104.164138°W		1281' FSL & 1144' FEL	OGRID #	277558

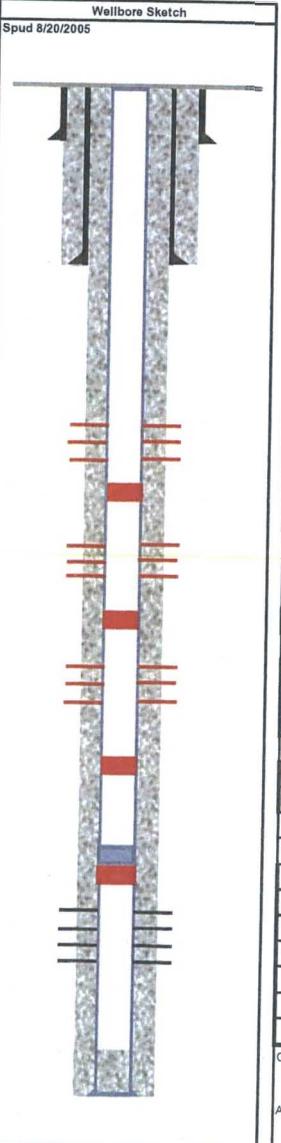
Directional Data:	
KOP	KOP 3748/3746' at 2 deg/100'
Max Dev.:	6.8 deg at 4002/3999'
Dleg sev:	< 2.2 deg
Dev @ Perfs	6 deg
Ret to Vert:	6320/6294'

Tubular Data							
Tubulars	Size	Weight	Grade	Thread	TVD	MD	TOC
Surface	13 3/8"	48#	H40	STC	426'	426'	SURF
Intermediate	8 5/8"	32#	J-55	STC	3,104'	3,105'	SURF
Production Liner	5 1/2"	17#	P-110	LTC	9,888'	9,915'	SURF
DV Tool at 4875'							

Wellhead Data	
Type:	
WP:	
Tree Cap	Flange:
	Thread:
Tbg Hanger:	
8TM Flange:	
BPV Profile:	NA
Elevations:	GL - RKB = 18'
RKB:	3523
GL:	3,505.0'

Drilling / Completion Fluid	
Drilling Fluid:	10.2 PPG Brine / Salt Gel
Drilling Fluid:	
Completion Fluid:	2% KCL
Completion Fluid:	
Packer Fluid:	NA

CEMENT DATA							
	L/sks	Yld	WT	T/sks	Yld	WT	XS
Surface	530			0			
Intermediate	1630						
Liner							
Production	375			320			40 SX



Completion Information						DETAILS	
DEPTHS (MD)	FORMATION TOPS / WELL INFO	PERFORATIONS from	to	# of HOLES			
0							
426'	17 1/2" Hole					13 3/8" 48#H40 Surf Csg. Circ Cmt to surf	
667'	Queen						
1,004'	Grayburg						
1,193'	San Andres						
3,105'	12.25" Hole					8-5/8" Intermediate Csg Circ Cmt to surf	
3,110'	Glorieta						
3,270'	Yeso						
2 7/8" 6.5# L80 Seamless tbg w Desander, 10 jts MA, and ESP at 3250'. New 1/4" cap string Start the ESP at 50 HZ.							
	Yeso Stage #3	3,300'	3,651'	38		351'; 1500 g 15% HCL, 8414 bbls water 30k # 100 Mesh, 327,810 # 40/70, 80-100 BPM	
CBP at 3685'							
	Yeso Stage #2	3,720'	4,006'	29		286'; 1500 g 15% HCL, 7214 bbls water 30k # 100 Mesh, 258,930 # 40/70, 80-100 BPM	
CBP at 4080'							
	Yeso Stage #1	4,165'	4,531'	31		366'; 1500 g 15% HCL, 8714 bbls water 30k # 100 Mesh, 338,940 # 40/70, 80-100 BPM	
CBP at 4800' Do Not Drill DV Tool at 4875'							
CIBP at 9580' & 25 sks cement on top							
	Morrow	9,628'	9,875'	26		247'; 1376 bbls slick water with 23k # 20/40 Bauxite at 31 BPM	
9,440'	PBTD - CIBP					Float Collar	
9,915'	PROD CSG					5-1/2" Prod Csg. Circ 40 SX Cmt to Surf	
Comments: Originally drilled as a Morrow well by BP America Prod Co.						Plug back Depth:	9,873' MD
Apache Operator 11/24/10; LRR II as Operator 2/27/18						Total Well Depth:	9,858' TVD
						Prepared By:	Date:
						Eric McClusky	21-Mar-18