

Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-35678
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. 28798
7. Lease Name or Unit Agreement Name North Vacuum Abo North Unit (form. State VII, 7)
8. Well Number 62
9. OGRID Number
10. Pool name or Wildcat North Vacuum (Abo) (61760)

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other **HOBBS OCD**

2. Name of Operator
Lime Rock Resources II-A, LP **MAR 18 2016**

3. Address of Operator
1111 Bagby St., Ste. 4600; Houston, TX 77002 **RECEIVED**

4. Well Location
Unit Letter A : 660 feet from the N line and 660 feet from the E line
Section 1 Township 17S Range 34E NMPM County Lea

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
4051' KB 4033' GL

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: Recompletion ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Our plan is to recomplete the well, into the North Vacuum (Abo) formation, utilizing the following procedure:

- 1) Dump bail 35' cmt on pkr @ 12406'
- 2) Set CIBP @ ±12000'
- 3) Spot 20' cmt on top of CIBP
- 4) Shoot sqz perfs @ 9600' & sqz across Abo formation up to +/-8700'
- 5) Perforate Abo formation from ±8820'-8950'
- 6) Return well to production

Spud Date: 4/15/16

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Carla Martin TITLE Carla Martin/Regulatory Tech DATE 3/17/16

Type or print name E-mail address: PHONE:
For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE 03/22/16
Conditions of Approval (if any):

MAR 22 2016

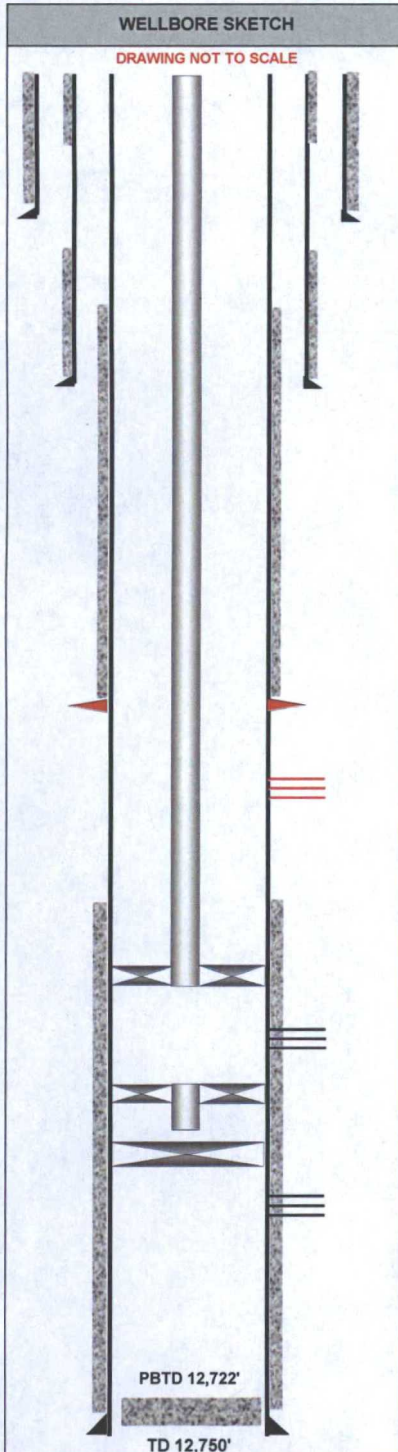
OPERATOR: LRR II-A, LP	LEASE / WELL: State VII, 7 (became NVANU 62)	SURVEY: Sec 1, T17S, R34E	Property No.
COMPLETION RIG:	COUNTY / STATE: Lea County, NM	SURFACE LOCATION: 660' FNL & 660' FEL	FIELD: North Vacuum

DIRECTIONAL DATA			
KOP:	STRAIGHT HOLE		
MAX DEV:	deg @	MD	
DEV @ PERFS:	deg @	MD	
DEV @ PERFS:	deg @	MD	
DEV @ PERFS:	deg @	MD	

DRILLING / COMPLETION FLUID			
DRILLING FLUID:	ppg -		
DRILLING FLUID:	ppg -		
DRILLING FLUID:	ppg -		
COMPLETION FLUID:	ppg -		
PACKER FLUID:	ppg -		

TUBULAR DATA							
Tubulars	Size	Weight	Grade	Thread	Top	MD	SKS
DRIVE PIPE							
CONDUCTOR	20"				0'	92'	
SURFACE	11-3/4"	42#	H-40	STC	0'	1610'	790
INTERMEDIATE	8-5/8"	32#	K-55	LTC	0'	5020'	1,190
PRODUCTION	4-1/2"	11.6#	P-110	LTC	0'	12,732'	1,380
PROD TIEBACK							
PROD LINER							
PROD LINER							
TUBING	2-3/8"	4.7#	N-80	8rd	0'	12400'	
COILED TUBING							

WELLHEAD DATA	
TYPE	
WP	
T	FLANGE:
R	
E	THREAD:
E	
TUBING HANGER:	
BTM FLANGE:	
BPV PROFILE:	
ELEVATIONS:	GROUND ELEVATION
RKB-DF:	
RKB-ELEV:	4033'



EQUIPMENT DESCRIPTION	ID	OD	DEPTH TVD	DEPTH MD
TA'd Well				
<i>hole in 8-5/8" csg @ 700' - pumped 300 sxs down 4-1/2" x 8-5/8" annulus, circ to surface</i>				
11-3/4" surface csg @ 1610' - cmt'd w/790 sxs to surface				
TOC @ 1740' (TS)				
TOC @ 2000'				
8-5/8" intermediate csg @ 5020' - cmt'd w/1190 sxs				
Tubing Detail (Sept-02):				
386 jts 2-3/8" 4.7# N-80 8rd tubing				
PX plug				
4-1/2" AS1-X retrievable packer @ 12,185' w/1.875" profile nipple w/ PX plug				
6' 2-3/8" sub				
1.875" SN				
4' 2-3/8" sub				
<i>DV tool @ 8498'</i>				
<i>Proposed perfs ~8820'-8950'</i>				
TOC @ 11,475'				
Atoka perfs @ 12,280'-98'				
Permanent packer @ 12,406' w/1 jt 2-3/8" tubing, & 4' sub				
CIBP @ 12,469'				
Morrow perfs @ 12,551'-57', 12,604'-08', 12,612'-18', & 12,621'-27' (6 spf)				
<i>20 bbls 15% HCl, 10 bbls Morrow blend 10% HCl, 70/30 Methanol, 3600 gal</i>				
<i>50Q CO2 Morrow blend</i>				
4-1/2" production csg @ 12,732' - cmt'd w/1380 sxs				
COMMENTS:	Working Interest:		PLUG BACK DEPTH:	
API #	30-025-35678		TOTAL WELL DEPTH:	
Property#	Net Revenue Interest:		PREPARED OR	
Spud Date:			REVISED BY:	
Completed in			DATE:	
			cml	
			9/2/2015	

CURRENT

DIRECTIONS TO LOCATION: Directions to well needed.

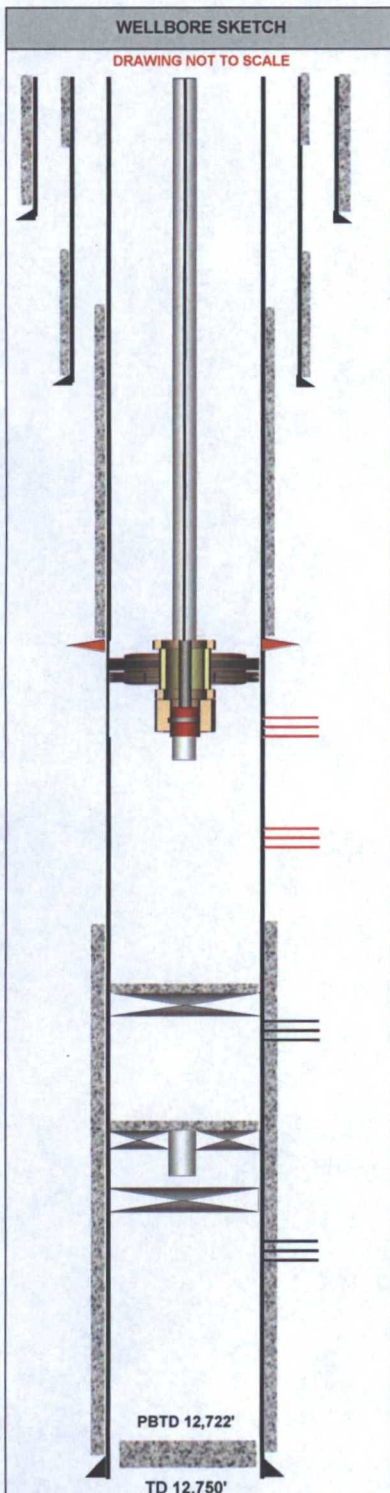
OPERATOR: LRR II-A, LP	LEASE / WELL: NVANU 62 (was State VII, 7)	SURVEY: Sec 1, T17S, R34E	Property No.
COMPLETION RIG:	COUNTY / STATE: Lea County, NM	SURFACE LOCATION: 660' FNL & 660' FEL	FIELD: North Vacuum

DIRECTIONAL DATA			
KOP:	STRAIGHT HOLE		
MAX DEV:	deg @	MD	
DEV @ PERFS:	deg @	MD	
DEV @ PERFS:	deg @	MD	
DEV @ PERFS:	deg @	MD	

DRILLING / COMPLETION FLUID			
DRILLING FLUID:	ppg -		
DRILLING FLUID:	ppg -		
DRILLING FLUID:	ppg -		
COMPLETION FLUID:	ppg -		
PACKER FLUID:	ppg -		

TUBULAR DATA							
Tubulars	Size	Weight	Grade	Thread	Top	MD	SKS
DRIVE PIPE							
CONDUCTOR	20"				0'	92'	
SURFACE	11-3/4"	42#	H-40	STC	0'	1610'	790
INTERMEDIATE	8-5/8"	32#	K-55	LTC	0'	5020'	1,190
PRODUCTION	4-1/2"	11.6#	P-110	LTC	0'	12,732'	1,380
PROD TIEBACK							
PROD LINER							
PROD LINER							
TUBING	2-3/8"	4.7#	N-80	8rd	0'	12400'	
COILED TUBING							

WELLHEAD DATA			
TYPE			
WP			
T R E E	C A P	FLANGE:	
		THREAD:	
TUBING HANGER:			
BTM FLANGE:			
BPV PROFILE:			
ELEVATIONS:		GROUND ELEVATION	
RKB-DF:		4033'	
RKB-ELEV:			



EQUIPMENT DESCRIPTION	ID	OD	DEPTH TVD	DEPTH MD
PROPOSED WELL				
hole in 8-5/8" csg @ 700' - pumped 300 sxs down 4-1/2" x 8-5/8" annulus, circ to surface				
11-3/4" surface csg @ 1610' - cmt'd w/790 sxs to surface				
TOC @ 1740' (TS)				
TOC @ 2000'				
8-5/8" intermediate csg @ 5020' - cmt'd w/1190 sxs				
Proposed Tubular Installation:				
Rod pump, TA @ ~8450', SN@ ~8975', & EOT @ ~9150'				
DV tool @ 8498'				
Proposed perfs ~8820'-8950'				
sqz perfs @ 9600' - circ cmt to above Abo				
TOC @ 11,475'				
Proposed CIBP @ 12,230' + 20' cmt				
Atoka perfs @ 12,280'-98'				
dump ball 35' cmt on pkr				
Permanent packer @ 12,406' w/1 jt 2-3/8" tubing, & 4' sub				
CIBP @ 12,469'				
Morrow perfs @ 12,551'-57', 12,604'-08', 12,612'-18', & 12,621'-27' (6 spf)				
20 bbls 15% HCl, 10 bbls Morrow blend 10% HCl, 70/30 Methanol, 3600 gal				
50Q CO2 Morrow blend				
4-1/2" production csg @ 12,732' - cmt'd w/1380 sxs				
COMMENTS:	Working Interest:	PLUG BACK DEPTH:		
API # 30-025-35678	Net Revenue Interest:	TOTAL WELL DEPTH:		
Property#		PREPARED OR	DATE:	
Spud Date:		REVISED BY:		
Completed in		cml		3/17/2016

PROPOSED

DIRECTIONS TO LOCATION: Directions to well needed.