

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

**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

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

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: Recompletion <input checked="" type="checkbox"/>		OTHER: <input type="checkbox"/>	

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 recomplate 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:  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

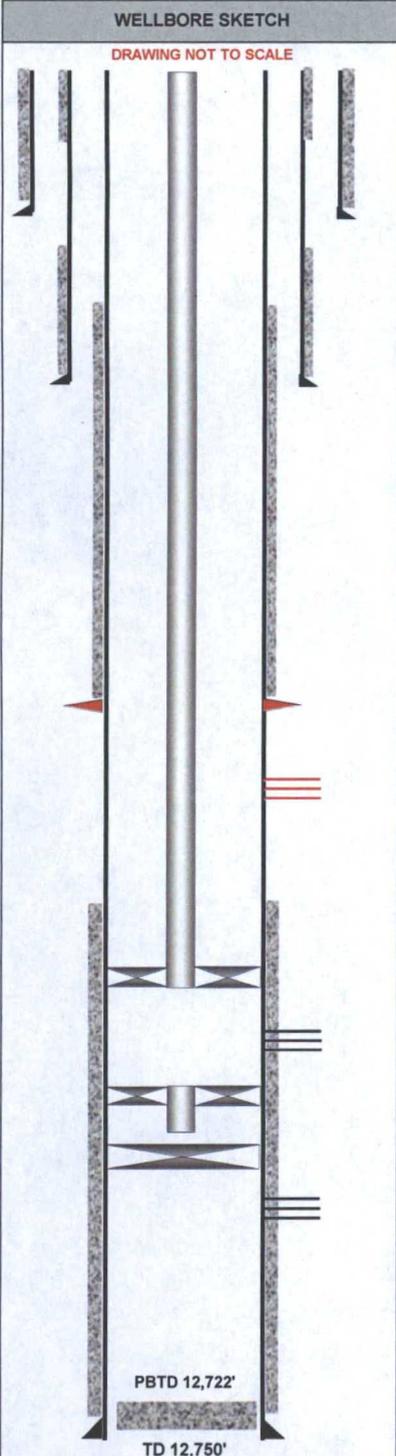
OPERATOR: <b>LRR II-A, LP</b>	LEASE / WELL: <b>State VII, 7 (became NVANU 62)</b>	SURVEY: <b>Sec 1, T17S, R34E</b>	Property No.
COMPLETION RIG:	COUNTY / STATE: <b>Lea County, NM</b>	SURFACE LOCATION: <b>660' FNL &amp; 660' FEL</b>	FIELD: <b>North Vacuum</b>

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

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:	4033'
RKB-ELEV:	

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



EQUIPMENT DESCRIPTION	ID	OD	DEPTH TVD	DEPTH MD
<b>TA'd Well</b>				
<i>hole in 8-5/8" csg @ 700' - pumped 300 sxs down 4-1/2" x 8-5/8" annulus , circ to surface</i>				
<b>11-3/4" surface csg @ 1610' - cmt'd w/790 sxs to surface</b>				
TOC @ 1740' (TS)				
TOC @ 2000'				
<b>8-5/8" intermediate csg @ 5020' - cmt'd w/1190 sxs</b>				
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 bbis 15% HCl, 10 bbis Morrow blend 10% HCl, 70/30 Methanol, 3600 gal</i>				
<i>50Q CO2 Morrow blend</i>				
<b>4-1/2" production csg @ 12,732' - cmt'd w/1380 sxs</b>				
COMMENTS:	Working Interest:	PLUG BACK DEPTH:		
API # 30-025-35678	Net Revenue Interest:	TOTAL WELL DEPTH:		
Property#		PREPARED OR	DATE:	
Spud Date:		REVISED BY:	9/2/2015	
Completed in		cml		

**CURRENT**

DIRECTIONS TO LOCATION: Directions to well needed.

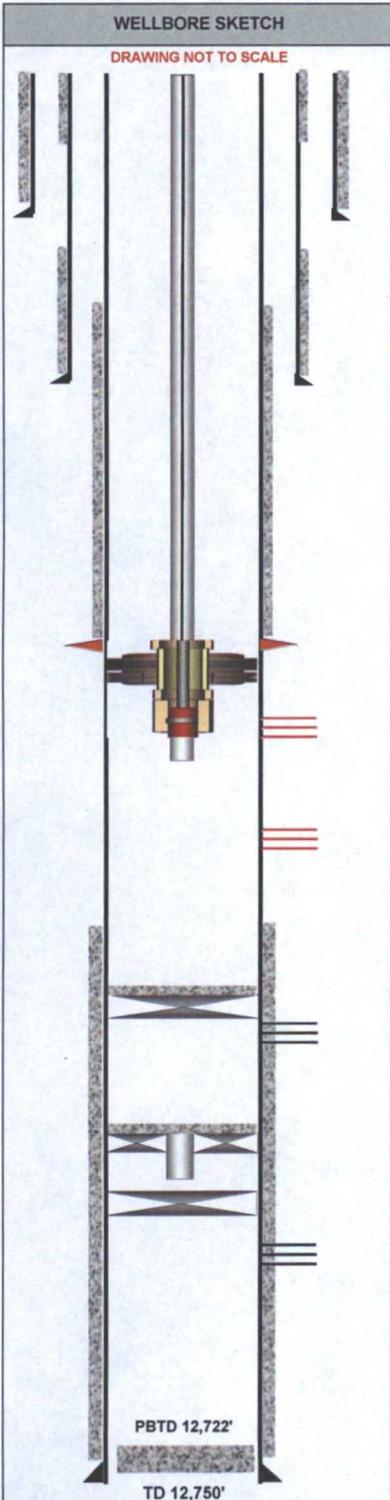
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COMPLETION RIG:	COUNTY / STATE: <b>Lea County, NM</b>	SURFACE LOCATION: <b>660' FNL &amp; 660' FEL</b>	FIELD: <b>North Vacuum</b>

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 -
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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
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PROD TIEBACK							
PROD LINER							
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TUBING	2-3/8"	4.7#	N-80	8rd	0'	12400'	
COILED TUBING							

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



EQUIPMENT DESCRIPTION	ID	OD	DEPTH TVD	DEPTH MD
<b>PROPOSED WELL</b>				
<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				
<i>Proposed Tubular Installation:</i>				
<i>Rod pump, TA @ ~8450', SN@ ~8975', &amp; EOT @ ~9150'</i>				
DV tool @ 8498'				
<i>Proposed perfs ~8820'-8950'</i>				
<i>sqz perfs @ 9600' - circ cmt to above Abo</i>				
TOC @ 11,475'				
<i>Proposed CIBP @ 12,230' + 20' cmt</i>				
Atoka perfs @ 12,280'-98'				
<i>dump ball 35' cmt on pkr</i>				
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	Net Revenue Interest:	TOTAL WELL DEPTH:		
Property#		PREPARED OR REVISED BY:	DATE:	
Spud Date:		cml	3/17/2016	
Completed in				

**PROPOSED**

DIRECTIONS TO LOCATION: Directions to well needed.