

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. 30-025-29192
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. E 754
7. Lease Name or Unit Agreement Name NORTH VACUUM ABO NORTH UNIT
8. Well Number #3 INJ
9. OGRID Number 277558
10. Pool name or Wildcat North Vacuum Abo (61760)
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4045' GL

SUNDRY NOTICES AND REPORTS ON WELLS AUG 20 2015 RECEIVED

(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 INJECTION WELL

2. Name of Operator
LIME ROCK RESOURCES II-A, L.P.

3. Address of Operator
c/o Mike Pippin LLC, 3104 N. Sullivan, Farmington, NM 87401

4. Well Location
Unit Letter O : 460 feet from the South line and 1680 feet from the East line
Section 2 Township 17-S Range 34-E NMPM Lea County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
4045' 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: Set 3-1/2" Liner to Isolate Small Casing Leaks ☒

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.

Lime Rock has identified small csg leaks from 5300'-5700', but the leaks were too small to squeeze with cmt. Line Rock would like to isolate these small casing leaks in this injection well as follows:

MIRUSU. Drill out the CIBP @ 5820'. Set a permanent 4-1/2" injection pkr @ 8500'. Set a scab liner consisting of 4" flush joint 9.3# J-55 csg with isolation pkr @ 5800' & 5200'. This liner will isolate small holes in the csg @ 5300'-5700', which were found using a plug & pkr combo in July 2015 along with a Casing Inspection Log, which was run on 7/6/15. Run 2-3/8" plastic lined injection tbg & sting into permanent pkr @ 8500'. See attached wellbore diagrams. Release rig. Run MIT. Resume water injection.

Spud Date: 3/26/85

Drilling Rig Release Date: April 1985

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

SIGNATURE Mike Pippin TITLE Petroleum Engineer - Agent DATE 8/19/15
Type or print name Mike Pippin E-mail address: mike@pippinllc.com PHONE: 505-327-4573

For State Use Only

APPROVED BY: Mary E Brown TITLE Dist Supervisor DATE 8/25/2015
Conditions of Approval (if any)

Condition of Approval: notify
OCD Hobbs office 24 hours
prior of running MIT Test & Chart

AUG 24 2015

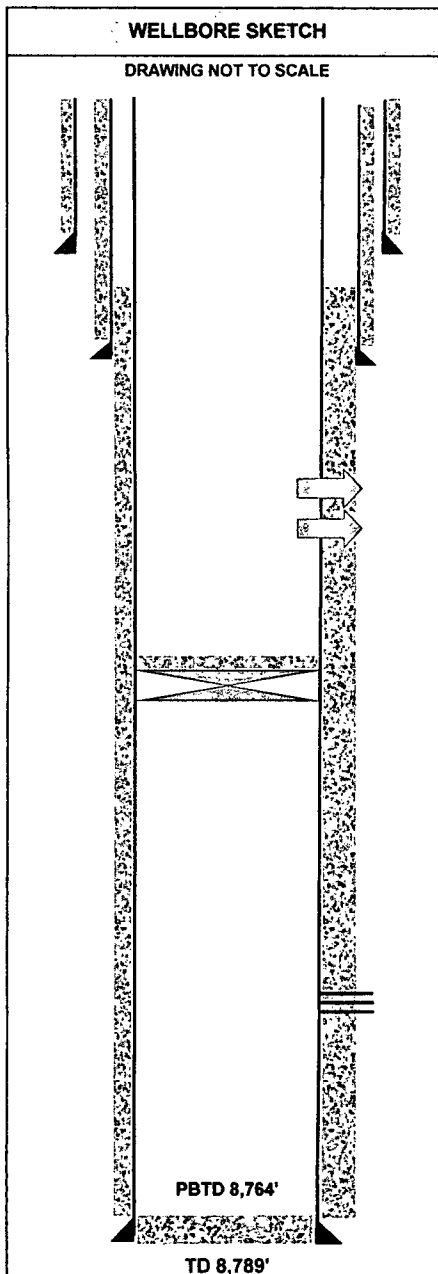
OPERATOR: Lime Rock Resources	LEASE / WELL: NVANU #3 INJ	SURVEY: Sec 2, T17S, R34E	Property No.
COMPLETION RIG:	COUNTY / STATE: Lea County, NM	SURFACE LOCATION: 460' FSL & 1680' FEL	FIELD: Vacuum Abo, North

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							
SURFACE	12-3/4"	38#	H-40	STC	0'	435'	250
INTERMEDIATE	7"	23#	K-55	STC	0'	4904'	1,400
PRODUCTION	4-1/2"	11.6#	J-55	LTC	0'	8789'	180
PROD TIEBACK							
PROD LINER							
PROD LINER							
TUBING							
COILED TUBING							

WELLHEAD DATA	
TYPE	
WP	
T R E E	FLANGE: C A P THREAD:
TUBING HANGER:	
BTM FLANGE:	
BPV PROFILE:	
ELEVATIONS:	GROUND ELEVATION
RKB-DF:	
RKB-ELEV:	4063'



EQUIPMENT DESCRIPTION	ID	OD	DEPTH TVD	DEPTH MD
Injection Well				
15" hole				
12-3/4" csg @ 435' - cmt'd w/250 sx. Circ cmt to surface.				
TOC @ 4600' - CBL 7/8/15, BUT SPOTTY IN PLACES				
8-3/4" hole				
7" csg @ 4903' - cmt'd w/1400 sx. Circ cmt to surface.				
Holes in casing from 5303' - 5729'				
CIBP @ 5820' + 20 sxs cmt				
Perfs @ 8542' - 8642' (34 holes)				
6" hole				
4-1/2" csg @ 8789' - cmt'd w/180 sx.				
COMMENTS:	Working Interest:	PLUG BACK DEPTH:		
API # 30-025-29192	Net Revenue Interest:	TOTAL WELL DEPTH:		
Property#		PREPARED OR	DATE:	
Spud Date:		REVISED BY:		
Completed in		pmp		8/18/2015

CURRENT

DIRECTIONS TO LOCATION: Directions to well needed.

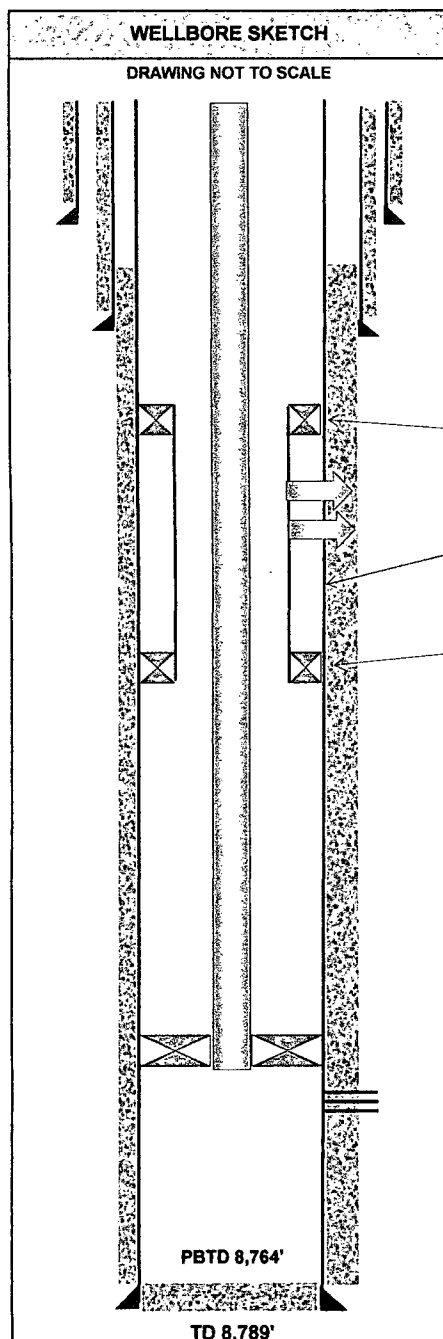
OPERATOR: Lime Rock Resources	LEASE / WELL: NVANU #3 INJ	SURVEY: Sec 2, T17S, R34E	Property No.
COMPLETION RIG:	COUNTY / STATE: Lea County, NM	SURFACE LOCATION: 460' FSL & 1680' FEL	FIELD: Vacuum Abo, North

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							
SURFACE	12-3/4"	38#	H-40	STC	0'	435'	250
INTERMEDIATE	7"	23#	K-55	STC	0'	4904'	1,400
PRODUCTION	4-1/2"	11.6#	J-55	LTC	0'	8789'	180
PROD TIEBACK							
PROD LINER							
PROD LINER							
TUBING							
COILED TUBING							

WELLHEAD DATA	
TYPE	
WP	
T R E E	FLANGE:
C A P	THREAD:
TUBING HANGER:	
BTM FLANGE:	
BPV PROFILE:	
ELEVATIONS:	GROUND ELEVATION
RKB-DF:	4063'
RKB-ELEV:	



EQUIPMENT DESCRIPTION	ID	OD	DEPTH TVD	DEPTH MD
Injection Well				
12-3/4" csg @ 435' - cmt'd w/250 sx. Circ cmt to Surface.				
TOC @ 4600' - CBL 7/6/15, BUT SPOTTY IN PLACES				
7" csg @ 4903' - cmt'd w/1400 sx. Circ cmt to Surface.				
Proposed Isolation packer @ ~5200'				
Holes in casing from 5303' - 5729'				
~600' 3-1/2" 9.3# J-55 FL4S (flush jt)				
Proposed Isolation packer @ ~5800'				
Tubing Detail:				
2-3/8" 4.7# L-80 IPC 8rd to ~5150'				
2-3/8" 8rd X-over to 2-3/8" CS Hydril (IPC)				
~700' 2-3/8" 4.7# L-80 CS Hydril IPC				
2-3/8" CS Hydril X-over to 2-3/8" 8rd (IPC)				
2-3/8" 4.7# L-80 IPC 8rd to ~8500'				
Proposed Injection packer @ ~8500'				
Perfs @ 8542' - 8642' (34 holes)				
4-1/2" csg @ 8789' - cmt'd w/180 sx 50/50 poz.				
COMMENTS:	Working Interest:	PLUG BACK DEPTH:		
API # 30-025-29192	Net Revenue Interest:	TOTAL WELL DEPTH:		
Property#		PREPARED OR		
Spud Date:		REVISED BY:		
Completed In		pmp		
		DATE: 3/18/2015		

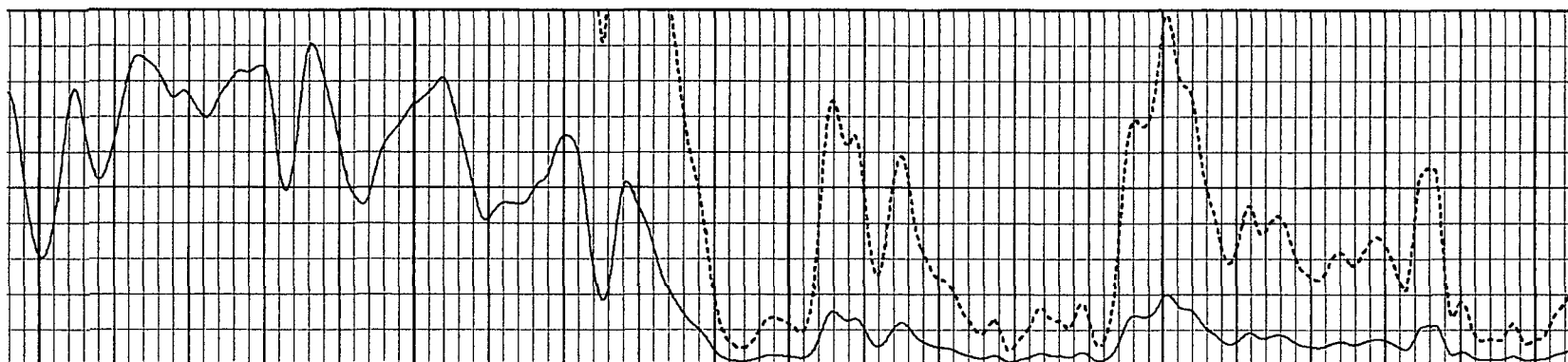
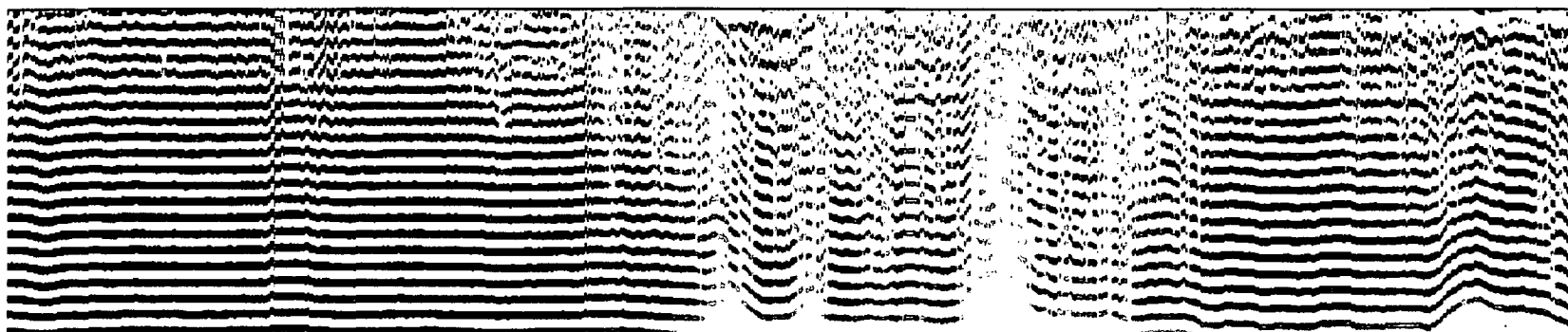
PROPOSED

DIRECTIONS TO LOCATION: Directions to well needed.

HALLIBURTON		CEMENT BOND GAMMA RAY/CCL LOG																																																																	
Company LIME ROCK RESOURCES Well NORTH VACUUM ABO NORTH UNIT 9-3 Field VACUUM ABO, NORTH County LEA State NEW MEXICO	Company LIME ROCK RESOURCES																																																																		
	Well NORTH VACUUM ABO NORTH UNIT 9-3																																																																		
	Field VACUUM ABO, NORTH																																																																		
	County LEA	State	NEW MEXICO																																																																
	API No.: 30-025-29192 Serv #: 902552877		CAST																																																																
	Location: 460' FSL & 1680' FEL SEC 2, T-17-S, R-34-E																																																																		
	Sec: Twp: Rge:																																																																		
	Permanent Datum GROUND LEVEL Elevation 4063'		Elevation																																																																
	Log Measured From GL 0 Ft. above perm. datum		K.B. N/A																																																																
	Drilling Measured From GL		D.F. N/A																																																																
		G.L. 4063'																																																																	
Date @ Time Logged	6 JUL 2015	Type Fluid in Hole	WATER																																																																
Run No.	ONE	Density of Fluid	N/A																																																																
Depth - Driller	8789'	Fluid Level	900'																																																																
Depth - Logger	8306'	Cement Top Est. Logged	NOT PICKED																																																																
Bottom - Logged Interval	8296'	Equipment / Location	12087005 / ODESSA																																																																
Top - Log Interval	4000'	Recorded by	B McCLAIN																																																																
Max. Recorded Temp.	NOT RECORDED	Witnessed by	MR EDDIE ELLIOT																																																																
CEMENTING DATA		Protection	Production																																																																
Surface String		String	String																																																																
Date / Time Cemented																																																																			
Primary / Squeeze																																																																			
Expected																																																																			
Compressive Strength	psi@ hrs	psi@ hrs	psi@ hrs																																																																
Cement Volume																																																																			
Cement Type / Weight	/	/	/																																																																
Formulation																																																																			
Mud Type / Mud Wgt.	/	/	/																																																																
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> Borehole Record <table border="1" style="width:100%; border-collapse: collapse; font-size: 10pt;"> <tr> <th>Run Number</th> <th>Bit</th> <th>From</th> <th>To</th> <th>Size</th> <th>Weight</th> <th>From</th> <th>To</th> </tr> <tr> <td>ONE</td> <td>N/A</td> <td>SURFACE</td> <td>435'</td> <td>12.75"</td> <td>38#</td> <td>SURFACE</td> <td>435'</td> </tr> <tr> <td>TWO</td> <td>N/A</td> <td>435'</td> <td>4904'</td> <td>7"</td> <td>23#</td> <td>SURFACE</td> <td>4904'</td> </tr> <tr> <td>THREE</td> <td>N/A</td> <td>4904'</td> <td>8789'</td> <td>4.5"</td> <td>11.6#</td> <td>SURFACE</td> <td>8789'</td> </tr> </table> </div> <div style="width: 48%;"> Casing & Tubing Record <table border="1" style="width:100%; border-collapse: collapse; font-size: 10pt;"> <tr> <th>Run Number</th> <th>Bit</th> <th>From</th> <th>To</th> <th>Size</th> <th>Weight</th> <th>From</th> <th>To</th> </tr> <tr> <td>ONE</td> <td>N/A</td> <td>SURFACE</td> <td>435'</td> <td>12.75"</td> <td>38#</td> <td>SURFACE</td> <td>435'</td> </tr> <tr> <td>TWO</td> <td>N/A</td> <td>435'</td> <td>4904'</td> <td>7"</td> <td>23#</td> <td>SURFACE</td> <td>4904'</td> </tr> <tr> <td>THREE</td> <td>N/A</td> <td>4904'</td> <td>8789'</td> <td>4.5"</td> <td>11.6#</td> <td>SURFACE</td> <td>8789'</td> </tr> </table> </div> </div>				Run Number	Bit	From	To	Size	Weight	From	To	ONE	N/A	SURFACE	435'	12.75"	38#	SURFACE	435'	TWO	N/A	435'	4904'	7"	23#	SURFACE	4904'	THREE	N/A	4904'	8789'	4.5"	11.6#	SURFACE	8789'	Run Number	Bit	From	To	Size	Weight	From	To	ONE	N/A	SURFACE	435'	12.75"	38#	SURFACE	435'	TWO	N/A	435'	4904'	7"	23#	SURFACE	4904'	THREE	N/A	4904'	8789'	4.5"	11.6#	SURFACE	8789'
Run Number	Bit	From	To	Size	Weight	From	To																																																												
ONE	N/A	SURFACE	435'	12.75"	38#	SURFACE	435'																																																												
TWO	N/A	435'	4904'	7"	23#	SURFACE	4904'																																																												
THREE	N/A	4904'	8789'	4.5"	11.6#	SURFACE	8789'																																																												
Run Number	Bit	From	To	Size	Weight	From	To																																																												
ONE	N/A	SURFACE	435'	12.75"	38#	SURFACE	435'																																																												
TWO	N/A	435'	4904'	7"	23#	SURFACE	4904'																																																												
THREE	N/A	4904'	8789'	4.5"	11.6#	SURFACE	8789'																																																												

HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

Comments



4500 4600 4700

