

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

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

| | | | |
|---|---|--|--|
| NOTICE OF INTENTION TO: | | SUBSEQUENT REPORT OF: | |
| 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 checked="" type="checkbox"/> | | | |
| OTHER: Set 3-1/2" Liner to Isolate Small Casing Leaks <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.

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 J 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

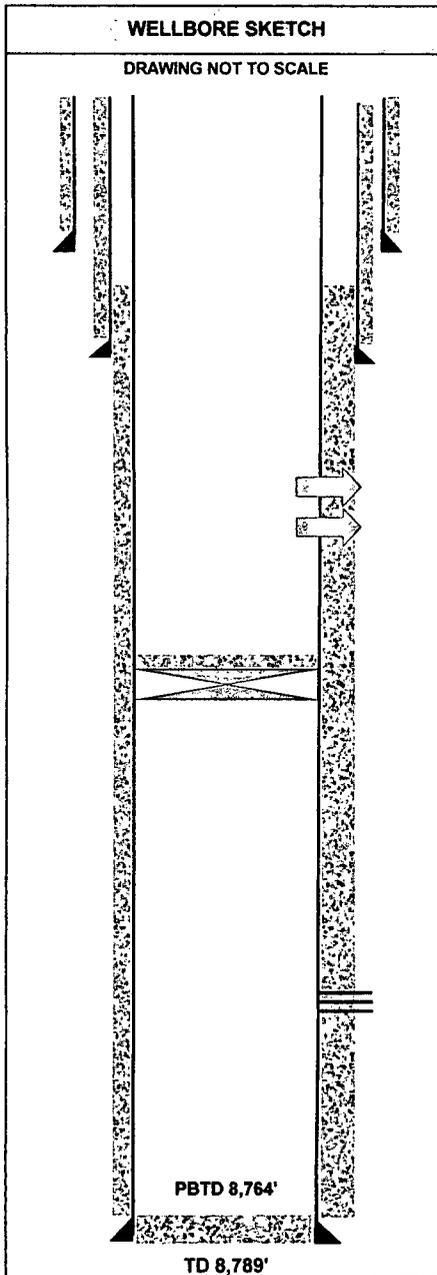
| | | | |
|---|--|--|------------------------------------|
| OPERATOR: Lime Rock Resources | LEASE / WELL: NVANU #3 INJ | SURVEY: Sec 2, T17S, R34E | Property No. |
| COMPLETION RIG: | COUNTY / STATE: Lea County, NM | SURFACE LOCATION: 460' FSL & 1680' FEL | FIELD: Vacuum Abo, North |

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

| 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: RKB-DF: RKB-ELEV: | GROUND ELEVATION 4063' |

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



| 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 sx 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: | 8/18/2015 | |
| Completed in | | pmp | | |

CURRENT

DIRECTIONS TO LOCATION: Directions to well needed.

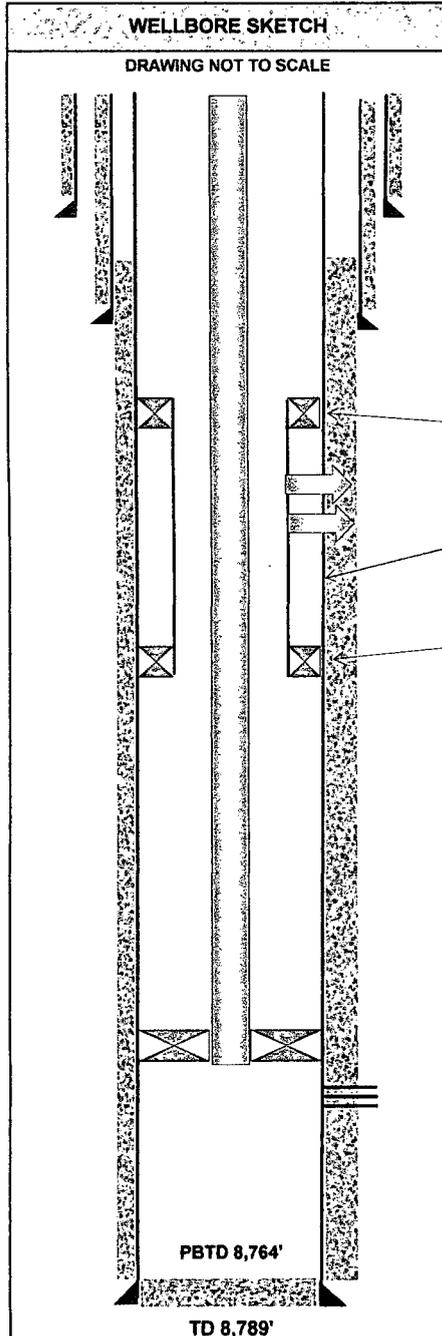
| | | | |
|---|--|--|------------------------------------|
| OPERATOR: Lime Rock Resources | LEASE / WELL: NVANU #3 INJ | SURVEY: Sec 2, T17S, R34E | Property No. |
| COMPLETION RIG: | COUNTY / STATE: Lea County, NM | SURFACE LOCATION: 460' FSL & 1680' FEL | FIELD: Vacuum Abo, North |

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

| 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: THREAD: |
| C A P | |
| TUBING HANGER: | |
| BTM FLANGE: | |
| BPV PROFILE: | |
| ELEVATIONS: | GROUND ELEVATION |
| RKB-DF: | 4063' |
| RKB-ELEV: | |

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



| 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 @ 4800' - 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 | DATE: | |
| Spud Date: | | REVISED BY: | 3/18/2015 | |
| Completed in | | pmp | | |

PROPOSED

DIRECTIONS TO LOCATION: Directions to well needed.

HALLIBURTON

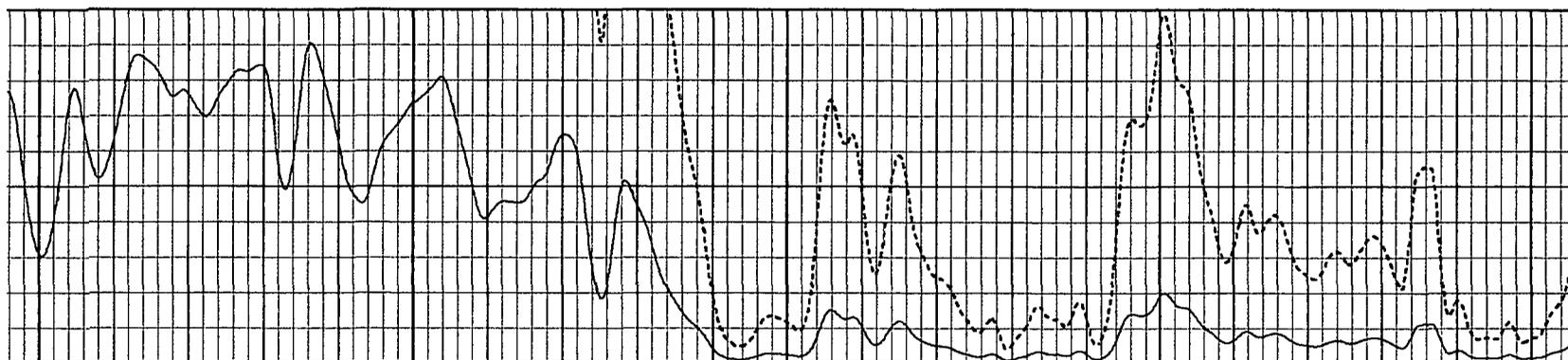
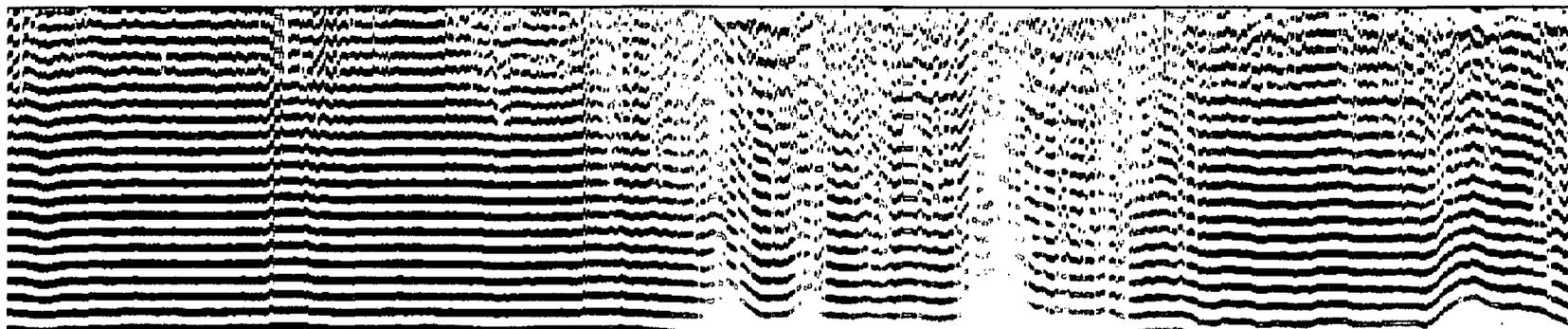
CEMENT BOND
GAMMA RAY/CCL
LOG

| | | | | | | | |
|---|------------------------|---------|---|------------------------|------------------------------------|---------|-------|
| 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 | | |
| | Location: | | 460' FSL & 1680' FEL SEC 2, T-17-S, R-34-E | | Other Services | | |
| | Sec: | | Twp: | Rge: | CAST | | |
| | Permanent Datum | | GROUND LEVEL Elevation 4063' | | Elevation | | |
| | Log Measured From | | GL 0 Ft. above perm. datum | | K.B. N/A D.F. N/A G.L. 4063' | | |
| | Drilling Measured From | | GL | | | | |
| 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 | | Surface | Protection | Production | Liner | | |
| | | 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. | / | | / | | / | | |
| Borehole Record | | | | Casing & Tubing Record | | | |
| 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' |

<<< Fold Here >>>

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

