

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

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

RECEIVED

OCT 10 2017

WELL API NO. 30-025-39785
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name HALE STATE
8. Well Number 004
9. OGRID Number 269324
10. Pool name or Wildcat SWD; SAN ANDRES
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4096'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 **SWD**

2. Name of Operator
LINN OPERATING, INC.

3. Address of Operator
600 TRAVIS, HOUSTON, TEXAS 77002

4. Well Location
Unit Letter D : 330 feet from the N line and 990 feet from the W line
Section 31 Township 17S Range 34E NMPM LEA, County

12. Check Appropriate Purpose of Notice, Report or Other Data

NOTICE
 NON-WELL POD FOR REPORTING SALE
 OF SKIM OIL ON C-115s FOR THIS WELL
 IS 4031464

SUBSEQUENT REPORT OF:

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

OTHER: Convert to SWD -1590

13. 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.

- 03/04/2016-
- 03/14/2016: Convert to SWD Disposal. Attempt to squeeze off Grayburg-San Andres perms 4370'-4754'. Establish injection rate of 200 psi. Pump 209 sks Class C (49 bbls) 14.8# mud. Release pkr. Reverse 23.9 bbls cmt out. Pkr cemented in hole.
- 03/14/2016-
- 04/12/2016: Mill out and retrieve cemented packer
- 04/13/2016-
- 05/12/2016: Pressure test csg. lost 170 psi in 15 min. Isolate pressure loss-bottom of leak 4740', top of leak 4365'. Unable to establish injection rate in interval. Secure well. RDMO.
- 11/09/2016-
- 11/11/2016: RU Cleanout to PBTD. Prep to run liner
- 11/14/2016: TIH with 22 jts 4" 10.5# liner to 4932' (TOL at 4011'). Unable to pump through liner shoe.
- 11/15/2016: Mark Whitaker, Hobbs OCD granted verbal approval to cement liner by shooting circulating holes in 4" liner. Perf liner with circulating holes (4921'-4923'). Cement liner in place with 50 sks Class C cement.
- 11/16/2016: Pressure test 5-1/2" csg to 680 psi for 30 mins-good test. Cleanout cmt to PBTD. Run CBL-good bond on 4" liner. TOC @ 4058'. Radial Bond Log attached
- 11/17/2016: Perforate 4" liner from 4820'-4850' and 4870'-4892' at 4 spf. RIH w/injection tbg and pkr (154 jts of 2-7/8", 36 jts of 2-3/8" J55 IPC tbg. @ 4758)
- 11/18/2016: Set pkr at 4766'. NU wellhead and acidize perms.
- 11/22/2016: Run MIT. Passed. Witnessed by George Bower-NMOCD. Chart Attached
- 11/28/2016-
- 12/12/2016: Tie-in surface facilities

*960 psi
Permit Pres.*

Spud Date: Rig Release Date:

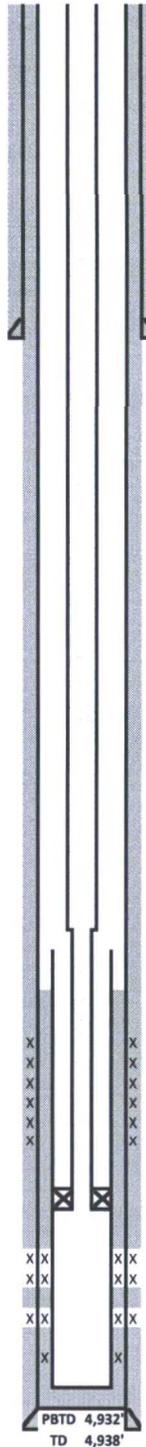
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Debra Gordon TITLE Regulatory Mgr. DATE 12/19/2016
 Type or print name: Debra Gordon E-mail address: dgordon@linenergy.com PHONE: 281.840.4010
 For State Use Only

APPROVED BY: Mary Brown TITLE AO/II DATE 10/10/2017
 Conditions of Approval (if any): RBDMS - CHART - ✓

Well Name:	Hale St #4
AFE #	PC-W16147995
Location:	
Footage:	330' FNL, 900' FWL
Section:	31
Township:	17S
Range:	34E
County:	Lea
Lat:	N 32° 47' 51.26"
Long:	W 103° 36' 17.424"
Elevations:	
GL:	
KB:	4107'

Current Wellbore Diagram



Well Name:	Hale St #4
API No:	30-025-39785
Spud Date:	11/20/2008
Location area:	Caprock Majamar

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Date	Work History
11/20/2008 - 11/30/2008	Spudded well. Set surf csg @1556'. Cmt'd w/393 sxs cmt circ to surf. Drilled to TD @4938'. Set prod csg @4936' Cmt'd w/975 sxs.
12/15/2008 - 2/3/2009	Perf 4898-4902, 4882-4890, 4820-4824, 4744-4754, (2 SPF). Acidize perms w/3200 gals acid. Perf 4720-4726, 4714-4716, 4666-4674, 4658-4660, 4640-4650, 4609-4611, 4588-4590, 4578-4585, 4570-4574, 4556-4560, 4549-4551, 4524-4534. Acidize perms w/7000 gals acid. Set SN @4879', set TAC @4501', set 155 jts 2-7/8" tbg @4900'. PU pump RIH w/10-7/8" rod, 86 3/4" rods, and 95 7/8" rods. Hung well on 2/5/09.
11/9/2009 - 11/17/2009	Treat existing perms (4524-4890'; 196 perms) w/6300 gal acid. Set RBP @4500'. Shot perms 4370-4400' (30); 4406-4412' (6) w/1 SPF. Treat new perms w/2000 gals HCL. Frac new perms 24,150 gals. Retrieve RBP, test and RWTP.
9/17/2010 - 9/20/2010	Frac San Andres perms 4370-4412' with 55.5k# sand. RIH w/4-3/4 bit, bit sub, 4-3 1/2" DC on 2-7/8 tbg to 4435'. Tag fill, break circ., clean out fill to 4459'.
3/15/2013	Passed Bradenhead test.
3/24/2014	Passed Bradenhead test.
3/6/2015	Passed Bradenhead test.
10/16/2015	Administrative Order SWD-1590 approved by NM-OCD for recompletion of the Hale St #4 for the purpose of produced water disposal. Injection permitted to occur through lower San Andres perforations from 4820'-4902' with a MASIP of 964 psi.
3/4/2016 - 3/14/2016	Convert to disposal. Attempt to squeeze off Grayburg - San Andres perms 4370'-4754'. Establish injection rate of 200 psi. Pump 209 sks class C (49 bbls) 14.8# mud. Release pkr, reverse 23.9 bbls cmt out. Pkr cemented in hole.
3/14/2016 - 4/12/2016	Mill out and retrieve cemented packer.
4/13/2016 - 5/12/2016	Pressure test csg, lost 170 psi in 15 min. Isolate pressure loss - bottom of leak 4740', top of leak 4365'. Unable to establish injection rate in interval. RDMO.
11/9/2016 - 11/16/2016	Run 22 jts 4" 10.5# liner from 4011'-4932'. Shoot circulating holes at 4921'-4923'. Cmt liner in place with 50 sks cmt. Run CBL - TOC at 4,058'.
11/17/2016 - 11/18/2016	Perf 4" liner from 4820'-4850', 4870'-4892' at 4 SPF. RIH with injecting tbg and set pkr at 4766'. Acidize perms.
11/22/2016	Passed MIT (OCD witnessed).

PRODUCTION LINER

Prod Liner: 4", 10.5#, 22 jts Liberty flush-joint L-80 liner
Liner top at 4,011'
Cement: Cemented in place with 50 sks
TOC: 4,058' (CBL)

SURFACE CASING

Hole Size: 12 - 1/4"
Surf Csg: 8 - 5/8" OD, 8.097" ID, 23 lb/ft, J-55 @ 1,556'
Cement: 393 sks class C 2% CaCl2 cmt
TOC: Circulated to Surface

PRODUCTION CASING

Hole Size: 7 - 7/8"
Prod Csg: 5 - 1/2" OD, 4.95" ID, 15.5 lb/ft, J-55 @ 4,936'
Cement: 975 sks class C 2% CaCl2 cmt
TOC: Circulated to Surface

INJECTION TUBING:

2 - 7/8", 6.5 lb/ft, J-55 IPC Tbg (154 jts)
2 - 3/8", 6.5 lb/ft, J-55 IPC Tbg (36 jts) EOT @ 4758'
Packer set at 4,766'

Top of Liner: 4,011'
Top of Liner Cmt: 4,058' (per CBL)

Sealed Perforations: Grayburg / San Andres
4370'-4400', 4406'-4412' (1 SPF)
4524'-4534', 4549'-4551', 4556'-4560', 4570'-4574'
4578'-4585', 4588'-4590', 4609'-4611', 4640'-4650'
4658'-4660', 4666'-4674', 4714'-4716', 4720'-4726'
4744'-4754' (2 SPF 90° phasing)
Perforations sealed off behind 4" cemented liner

Injection Pkr: Set at 4,766'

PERFORATIONS: San Andres (Disposal Interval)
4820'-4850', 4870'-4892' (4 SPF)

Circulating Holes: 4921'-4923'

Updated:
12/13/2016 J Haines

PBTD 4,932'
TD 4,938'

