

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) 176-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

HOBBS OCD State of New Mexico **HOBBS OCD**
Energy, Minerals and Natural Resources
28 2011 SEP 28 2011
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505
RECEIVED **RECEIVED**

Form C-103
October 13, 2009

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.)		WELL API NO. 30-025-01526
1. Type of Well: Oil Well ☐ Gas Well ☒ Other INJECTION ☒		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator LINN OPERATING, INC.		6. State Oil & Gas Lease No. 309534
3. Address of Operator 600 TRAVIS, SUITE 5100, HOUSTON, TEXAS 77002		7. Lease Name or Unit Agreement Name CAPROCK MALJAMAR UNIT
4. Well Location Unit Letter <u>L</u> A: <u>1980</u> feet from the <u>S</u> line and <u>660</u> feet from the <u>W</u> line Section <u>28</u> Township <u>17S</u> Range <u>33E</u> NMPM LEA County		8. Well Number: 093
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		9. OGRID Number 269324
		10. Pool name or Wildcat MALJAMAR; GRAYBURG-SAN ANDRES

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 ☐

OTHER ☐

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.

Liner Installation:

MIRU. Bleed pressure off well, NDWH, NU BOP, RIH & set composite plug @ 4,134'. PU & RI w/ 4", 11#, L-80 Flush Jt Csg. Set end of csg 5' above composite plug @ 1,129'. Establish circ w/ brine fluid. Pump cmt to surface. Pump wiper plug then shut BH valve. ND BOP Set slips for 4" csg. Install bowl for 2-3/8" injection tbg. NU BOP. WOC. Run CBL. PU bit & workstring, drill out cement plug & composite plug. Bleed well down LD Bit & workstring. PU 2-3/8" injection string & pkr & TIH to 4,100'. ND BOP Circ pkr fluid. Set pkr & slips @ 4,100' NU WH RDMO

Per Underground Injection Control Program Manual
11.6 C Packer shall be set within or less than 100
feet of the uppermost injection perfs or open hole.

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

Spud Date: _____

Log Release Date: _____

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

SIGNATURE Terry B. Callahan TITLE: REGULATORY SPECIALIST III DATE September 27, 2011

Type or print name TERRY B. CALLAHAN E-mail address tcallahan@linnenergy.com PHONE: 281-840-4272
For State Use Only

APPROVED BY [Signature] TITLE STATE MGR DATE 9-28-2011
Conditions of Approval (if any): _____

SEP 28 2011

Wellbore Diagram

Lease & Well No

Field Name

Location

Caprock Mahjamar Unit #93

Mahjamar (Grayburg San Andres)

1980' FSL & 660' FWL T 17S R 33E Sec 28

Former Name

County & State

Lea County, New Mexico

API No.

30-025-01526

K.B. Elevation

D.F. Elevation

Ground Level

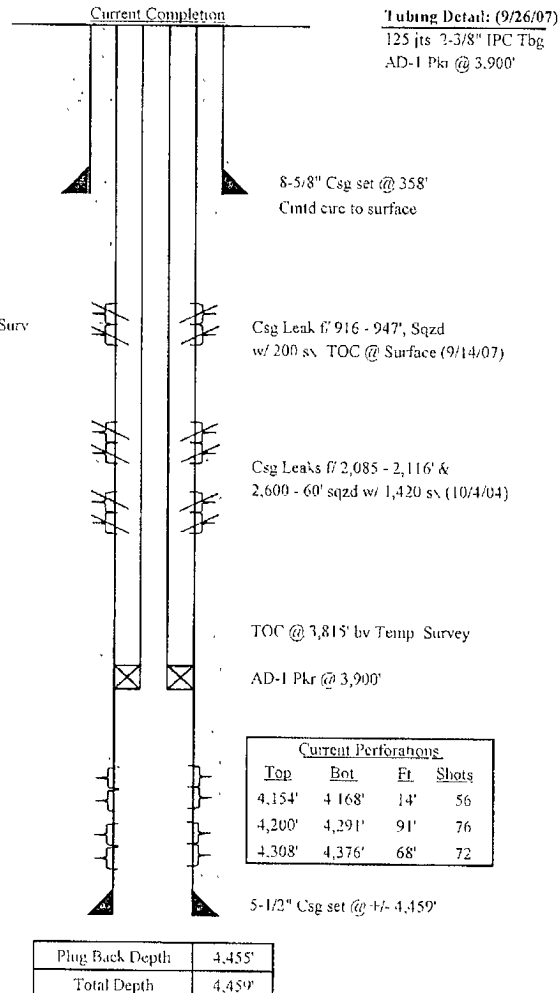
4,150'

Surface Casing				
Size (OD)	8 5/8"	Weight	21.0#	Depth
Grade	J-55	Sx. Cmt.	150 ss	TOC @
Intermediate Casing				
Size (OD)	n/a	Weight		Depth
Grade		Sx. Cmt.		TOC @
Production Casing				
Size (OD)	5 1/2"	Weight	15.5#	Depth
Grade	J-55	Sx. Cmt.	450 ss	TOC @

Temp Surv

Well History

- 1/18/57 - Spud 11" hole, Set 8-5/8" csg @ 358', Cmt'd w/ 150 ss cmt, Circ 10 ss to pit,
 12/8/57 - FD 7-7/8" hole @ 4,460' Set 5-1/2" csg @ 4,459', Cmt'd same w/ 100 ss + 550 gals
 cement, Ran Temp survey which indicated TOC @ 3,815',
 2/10/57 - Perfd f' 4,286 - 91', 4,308 - 16' & 4,336 - 38' & 4,346 - 52' @ 4 spf (84 holes). Spotted acid
 on perms & acidz w/ 4,000 gals 7.5% acid + 2,000# sd. Reversed out acid due to leak &
 pumpd 1,200 gals acid + 2,100# sd, swabbed well
 2/13/57 - Perfd f' 4,200 - 68' & 4,257 - 63' & 4,329 - 38' @ 4 spf (92 holes), RHH w/ straddle pkts @
 4,275', 4,300' & 4,320', trid perms f' 4,329 - 38' & 4,346 - 52' w/ 3,000 gals oil + 1,500# sd + 20
 BS, Pmpd 3,000 gals oil + 1,500# sd after BS, Re-set pkts @ 4,245', 4,280' & 4,300', Trid
 perms f' 4,286 - 91' w/ 5,250 gals oil + 1,300# sd, Re-set pkts @ 4,192' & 4,212', Trid perms f'
 4,200 - 08' w/ 5,250 gals oil + 1,300# sd, put well on pump
 2/21/58 - Perfd f' 4,154 - 68' & 4,364 - 76' @ 4 spf (104 shots), Acidz 4,564 - 76' (San Andres) w/
 2,000 gals 15% NEFE HCl, Frac'd same w/ 6,000 gals 15% HCl + 3,000# sd, Trid perms f'
 4,329 - 38' & 4,346 - 52' w/ 6,000 gals 7.5% HCl + 3,000# sd, Trid perms f' 4,257 - 63', 4,286 -
 91' & 4,308 - 16' w/ 8,000 gals 7.5% HCl + 4,000# sd, Trid perms f' 4,200 - 08' w/ 5,000 gals
 7.5% HCl + 2,500# sd, Trid perms f' 4,154 - 68' w/ 5,000 gals 7.5% HCl + 1,250# sd,
 4/4/67 - convert well to injection
 3/29/68 - RHH & set pkr @ 4,223' Trid perms w/ 2,000 gals 20% HCl
 7/20/85 - POH w/ injection eqpt RHH w/ bit & scraper Cind out to 4,400', POH & RHH w/ pkr &
 set same @ 3,860', Acidz perms in 2 equal stps of 1,500 gals acid + 250# Rock salt + 250#
 BAF, put well back on injection
 10/4/01 - Isolated csg leaks f' 2,600 - 60' & 2,085 - 2,116', Csg tstd ok f' 2,070 - surface but
 rough/bad csg noted @ 990', POH w/ tools & RHH w/ RBP & set same @ 4,000',
 RHH w/ cmt ret & set same @ 1,990', Sqzd leaks w/ 100 ss Cl⁻ C⁺ cmt + 2% CaCl₂
 Hosuited in w/ 5 bbls cmt for 15 hrs, Drld out cmt & ret & bit stringers @ 2,112 - 22',
 Pressured csg to 1,000 psi & leaked off 400 psi, held ok @ 600 psi for 15 mins, Drld out
 stringers to 2,496', RHH w/ cmt ret & set same @ 1,997', Sqzd w/ 400 ss Cl⁻ C⁺ cmt + 2%
 CaCl₂ @ 1,500 psi RHH & drld out cmt ret & green cmt RHH w/ cmt retainer & set same @
 1,997', Pmpd 75 ss thick set cmt + 230 ss Cl⁻ C⁺ + 2% CaCl₂, Drld out cmt ret & cmt & well
 would not test, Set cmt retainer @ 2,005', Pmpd 314 ss cmt into leak, Drld out cmt ret &
 stringers, Tstd csg to 1,600 psi & held ok, POH w/ RBP & RHH w/ pkr, Acidz GB/SA perms
 f' 4,156 - 4,128' w/ 4,800 gals 15% HCl + 1,750# RS, RHH w/ pkr & inj thg & set pkr @ 3,900',
 Tstd well to 340 psi & put well on injection,
 9/11/07 - POH w/ inj Eqpt, RHH w/ RBP & pkr & set same @ 3,900' & 3,872', respectively, Isolate
 leaks f' 9' 6" - 917' Sqzd w/ 200 ss cmt Circ cmt to surface, drld out cmt & tstd csg to 500
 psi set pkr @ 3,900' & tstd csg but would not test. St well



Plug Back Depth	4,455'
Total Depth	4,459'

Formation Record	Depth
Anhydrite	1,315'
1/2 Salt	1,515'
B/ Salt	2,523'
Yates	2,681'
Seven Rivers	3,058'
Queen	3,663'
Grayburg	4,022'
San Andres	4,354'

Wellbore Diagram

Lease & Well No. Caprock Mahjamar Unit #93
 Field Name Mahjamar (Grayburg San Andres)
 Location 1980' FSL & 660' F-WL, F 17S R 33E Sec 28

Former Name
 County & State Lea County, New Mexico
 API No. 30-025-01526

K.B. Elevation
 D.F. Elevation
 Ground Level 4,150'

Surface Casing				
Size (OD)	8 5/8"	Weight	24.0#	Depth 358'
Grade	J-55	Sx. Cmt.	150 sx	TOC @

Intermediate Casing				
Size (OD)	n/a	Weight		Depth
Grade		Sx. Cmt.		TOC @

Production Casing				
Size (OD)	5 1/2"	Weight	15.5#	Depth 4,459'
Grade	J-55	Sx. Cmt.	450 sx	TOC @

PROPOSED LINER INSTALLATION SUMMARY

MIRU
 BLEED PRESSURE OFF WELL
 NDWH
 NUBOP
 RIH & SET COMPOSITE PLUG @ 4,134'
 PU & RIH w/ 4", 11#, L-80 FLUSH JT CSG
 SET END OF CSG 5' ABOVE COMPOSITE PLUG @ 4,129'
 ESTABLISH CIRCULATION WITH BRINE FLUID
 PUMP CMT TO SURFACE
 PUMP WIPLR PLUG THEN SHUT BH VALVE
 ND BOP
 SET SLIPS FOR 4" CSG
 INSTALL BOWL FOR 2-3/8" INJ TBG
 NUBOP
 WOC
 RUN CBL
 PU BIT & WORKSTRING, DRILL OUT CEMENT PLUG & COMPOSITE PLUG
 BLEED WELL DOWN
 LD BIT & WORKSTRING
 PU 2-3/8" INJ STRING AND PKR & THH TO 4,100'
 ND BOP
 CIRC PKR FLUID
 SET PKR & SLIPS @ 4,100'
 NU WH
 RUMO

Formation Record	Depth
Anhydrite	1,315'
Ty Salt	1,515'
B/ Salt	2,523'
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