

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

OCD Artesia
JUL 05 2013FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to recomplete an abandoned well. Use form 3160-3 (APD) for such proposals.

LIMOCO ARTESIA

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well ☐ Oil Well ☐ Gas Well ☒ Other: INJECTION		5. Lease Serial No. NMLC029395B
2. Name of Operator LINN OPERATING, INC.		6. If Indian, Allottee or Tribe Name
Contact: TERRY B CALLAHAN E-Mail: tcallahan@linnenergy.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 600 TRAVIS STREET HOUSTON, TX 77002	3b. Phone No. (include area code) Ph: 281-840-4272	8. Well Name and No. TURNER B 054
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 29 T17S R31E Mer NMP SENW 1980FNL 1980FWL 32.807359 N Lat, 103.893985 W Lon		9. API Well No. 30-015-05443
		10. Field and Pool, or Exploratory GRAYBURG JACKSON;SR-Q-G-S
		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Workover Operations
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Turner B 54 Proposed Procedure ? Repair csg leak (have 2 ? 7/8? work string)
Running csg patch

1. Test rig anchors prior to rigging up.
2. MIRU. Check all pressures (tubing, casing, braden head)
3. Bleed off any pressure as necessary
4. NU BOP, Tag fill w/ sand line and call engr. with results
5. POOH and stand back tubing.
6. RIH w/ 2- 7/8? workstring, RBP, PKR, set RBP above perforations at 3050 and test plug
7. PUH set PKR @ 200? Test below(200?-3050?). If it fails test call engr.
8. TIH w/ 4-7/8? bit and scraper

SEE ATTACHED FOR
CONDITIONS OF APPROVALAccepted for record
NMLC029395B

R. Dade 7/8/13

14. I hereby certify that the foregoing is true and correct.		Electronic Submission #204880 verified by the BLM Well Information System For LINN OPERATING, INC., sent to the Carlsbad Committed to AFMSS for processing by JOHNNY DICKERSON on 04/23/2013 ()	
Name (Printed/Typed) TERRY B CALLAHAN		Title REG COMPL SPECIALIST III	
Signature (Electronic Submission)		Date 04/19/2013	APPROVED JUL 2 2013 JOHNNY DICKERSON BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE
THIS SPACE FOR FEDERAL OR STATE OFFICE USE			
Approved By _____		Title _____	
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office _____	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Additional data for EC transaction #204880 that would not fit on the form

32. Additional remarks, continued

9. RUWL and RIH w/ multi-finger, multi-sensor caliper log from 100? to surface.
10. RDWL
11. PU setting tools and Weatherford 5-1/2? csg patch
12. RIH and center csg patch around leaking interval
13. After patch is correlated and on depth, mark tbg and lower string 10?, then pick back up to mark. This will close the slide valve.
14. Make up pump and test lines to 5000 psi.
15. Start pumping on setting tool slowly, ? bpm.
16. When the pressure gets to 5000 psi shut down. The tool is closed.
17. Pick up the tbg 5 ft and the tool is open and ready to pump again.
18. At this point you can either use over pull with the rig or keep using the pump.
19. When you exit the top of the HOMCO patch POOH and wait 24 hours for epoxy to cure.
20. TOH lay down setting tools
21. Pressure csg to 500lb for 30 min. If well doesn't pass call engr.
22. POOH w/everything and RBIH with 2 ? 3/8? tubing and injection pkr. Set inj PKR at 3006? and RTI

Wellbore Diagram

Lease & Well No. **Turner B # 54**
 Field Name **Greyburg**
 Location **1980' FWL & 1980' FNL SEC 29-T17S-R31E**

K.B. Elevation _____
 D.F. Elevation _____
 Ground Level **3,696'**

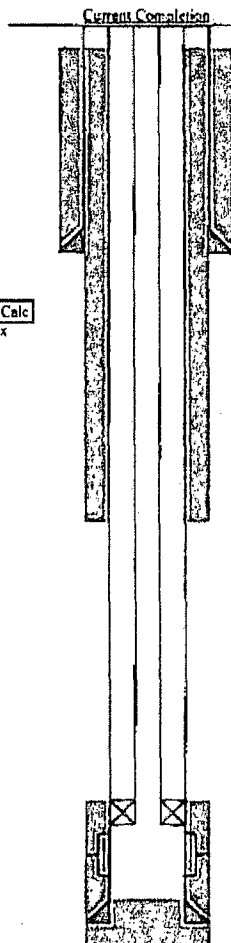
County & State **Eddy County, New Mexico**
 API No. **30-015-05443**
 Created By **Briklynd Briggs**
 Spud **6/30/1958**

Tubing Detail
95 Jts. 2-3/8" 4.7# IPC

Surface Casing					
Size (OD)	10 3/4"	Weight	28.5#	Depth	553'
Grade		Sx. Cmt.	100 sx	TOC @	13' Calc
Intermediate Casing					
Size (OD)		Weight		Depth	
Grade		Sx. Cmt.		TOC @	
Production Casing					
Size (OD)	5 1/2"	Weight	14.0#	Depth	3,525'
Grade		Sx. Cmt.	150 sx	TOC @	2,740' (temp svry) 2,547' Calc

Note: Casing cut off @ 1180' and replaced w/28 jts 15.5# j-55 LT&C. Cement squeezed to surface with 1000 sxs

Notes
 6/30/1958 Spud 12-1/2" hole
 7/4/1958 Set 10-3/4" 32.4# csg @ 553' w/ 100 sxs
 8/14/1958 Set 5-1/2" 14# J-55 csg @ 3525' w/ 125 sxs
 8/15/1958 Top cmt behind csg 2740' (temp survey)
 8/17/1958 run gamma neutron log and perf 3366-3386 w/ 80 1/2" jet shots. Ran 2" tubing to 3324' and fractured w/ 30,000 gal & 30,000# sand. Max press. 2550#, min press. 2500#. Flushed w/ 150 bbls oil SIP. 1500#, 5 min SIP 1450#. Recovered all load oil.
 8/19/1958 flowed 54bbls 37.2 gravity oil in 6 hours & no water through a 20/64" choke. GOR 1180 tbq 300# csg 50#
 3/11/1969 Ran 2-3/8" EUE tubing w/tension pkr set @ 3319'. Prep to inject wtr 3366-3386'
 1/29/1970 acid. Reset cuiberson (tension pkr on 2-3/8 tubing and set @ 3327.4' w/ 13000# tension. Return to inj
 8/16/1986 well was shut in to evaluate russell turner wtr flood
 5/7/1991 Perf 5-1/2" csg 3366-3386 3396-3404. Treat w/3000 gal 15% NEFE acid. Perf 3237, 42, 53, 62, 64, 66, 3159, 61, 63, 65, 67, 79, 3204, 3108, 3118
 3/3/1997 Casing Leak 1489-1518, perfed 1477 squeezed w/ 665 sxs. Casing cut off @ 1180' and replaced w/28 jts 15.5# j-55 LT&C. Cement squeezed to surface with 1000 sxs
 4/23/1997 RTI



TOC @ Surface
 Csg leak 30'-60' from surface 10/2012

10 3/4" Csg set @ 553' w/100 sxs

Detail of Performance
 3334, 36, 47, 49, 57, 59, 3366-3386 w/ 80 Premier
 1/2" Jet Shots Premier
 3396-3404 3430, 3432 w/ 2 JSPF Sq. Lake
 3237, 42, 53, 62, 64, 66, Metex
 3159, 61, 63, 65, 67, 79, 3204, L. Hills
 3108, 3118

Hole Size:
 12.5" to 553
 8" to 3525'

95 Jts. 2-3/8" IPC and 5-1/2" Baker AD-1 Pkr set @ 3006

5-1/2" Csg set @ 3525' w/150 sxs. TOC @ 2740'

Plug Back Depth	3,523'
Total Depth	3,525'

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Running csg patch

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5. POOH and stand back tubing.
6. RIH w/ 2- 7/8" workstring, RBP , PKR, set RBP above perforations at 3050 and test plug
7. PUH set PKR @ 200' Test below(200'-3050'). If it fails test call engr.
8. TIH w/ 4-7/8" bit and scraper
9. RUWL and RIH w/ multi-finger, multi-sensor caliper log from 100' to surface.
10. RDWL
11. PU setting tools and Weatherford 5-1/2" csg patch
12. RIH and center csg patch around leaking interval
13. After patch is correlated and on depth, mark tbg and lower string 10', then pick back up to mark.
This will close the slide valve.
14. Make up pump and test lines to 5000 psi.
15. Start pumping on setting tool slowly, ¼ bpm.
16. When the pressure gets to 5000 psi shut down. The tool is closed.
17. Pick up the tbg 5 ft and the tool is open and ready to pump again.
18. At this point you can either use over pull with the rig or keep using the pump.
19. When you exit the top of the HOMCO patch POOH and wait 24 hours for epoxy to cure.
20. TOH lay down setting tools
21. Pressure csg to 500lb for 30 min. If well doesn't pass call engr.
22. POOH w/everything and RBIH with 2 – 3/8" tubing and injection pkr. Set inj PKR at 3006' and RTI

Contact Information

Briklynd Briggs – Asset Engineer
Cell – 832-723-4867
Office – 281-840-4275

Joe Hernandez – Foreman
Cell – 575-942-9492

Turner B 54
30-015-05443
LINN Operating Inc
July 2, 2013
Conditions of Approval

Well with a Packer - Operations

- 1) Conduct a Mechanical Integrity Test of the tubing/casing annulus after a tubing, packer or casing seal is established. Repair that seal any time more than five barrels of packer fluid is replaced within 30 days.
- 2) The minimum test pressure should be 500 psig for 30 minutes or 300 psig for 60 minutes, with a minimum 200 psig differential between tubing and casing pressure (at test time) but no more than 70% of casing burst pressure as described by Onshore Order 2.III.B.1.h. (The tubing or reservoir pressure may need to be reduced). An alternate method for a BLM approved MIT is to have the fluid filled system open to atmospheric pressure and have a loss of less than five barrels in 30 days witnessed by a BLM authorized officer.
- 3) Document the pressure test on a one hour full rotation calibrated recorder chart registering within 25 to 85 per cent of its full range. Greater than 10% pressure leakoff will be viewed as a failed MIT. Less than 10% pressure leakoff will be evaluated site specifically and may restrict injection approval.
- 4) Notify BLM 575-200-7902 (if there is no response, 575-361-2822) as work begins. Some procedures are to be witnessed. If no answer, leave a voice mail or email with the API#, workover purpose, and a call back phone number. Note the contact, time, & date in your subsequent report.
- 5) Submit a subsequent Sundry Form 3160-5 relating the MIT activity. Include a copy of the recorded MIT pressure chart. List the name of the BLM witness, or the notified person and date of notification. NMOCD is to retain the original recorded MIT chart.
- 6) Use of tubing internal protection, tubing on/off equipment just above the packer, a profile nipple, and an in line tubing check valve below the packer or between the on/off tool and packer is a "Best Management Practice". The setting depths and descriptions of each are to be included in the subsequent sundry. List (by date) descriptions of daily activity of any previously unreported wellbore workover.
- 7) **Submit the original subsequent sundry with three copies to BLM Carlsbad.**
- 8) Compliance with a NMOCD Administrative Order is required, submit documentation of that authorization. Approved injection pressure compliance is required. If injection pressure exceeds the approved pressure you are required to reduce that pressure and notify the BLM within 24 hours.
- 9) When injection pressure is within 50 psig of the maximum pressure, install automation equipment that will prevent exceeding that maximum. Submit a subsequent report (Sundry Form 3160-5) describing the installed automation equipment within 30 days.
- 10) Unexplained significant variations of rate or pressure to be reported within 5 days of notice.

- 11) The casing/tubing annulus is required to be monitored for communication with injection fluid or loss of casing integrity. A BLM inspector may request verification of a full annular fluid level at any time.
- 12) A "Best Management Practice" is to maintain the annulus full of packer fluid at atmospheric pressure. Equipment that will display on site, continuous open to the air fluid level is necessary to achieve this goal.
- 13) Loss of packer fluid above five barrels per month indicates a developing problem. Notify BLM Carlsbad Field Office, Petroleum Engineering within 5 days.
- 14) A suggested format for monthly records documenting that the casing annulus is fluid filled is available from the BLM Carlsbad Field Office.
- 15) Gain of annular fluid requires notification within 24 hours. Cease injection and maintain a production casing pressure of 0psia. Notify the BLM's authorized officer ("Paul R. Swartz" <pswartz@blm.gov>, cell phone 575-200-7902). If there is no response phone 575-361-2822.
- 16) Submit a (Sundry Form 3160-5) subsequent report (daily reports) describing all wellbore activity and Mechanical Integrity Test as per item 1) above. Include the date(s) of the well work, and the setting depths of installed equipment: internally corrosive protected tubing, tubing on/off equipment just above the packer, and an in line tubing check valve below the packer or between the on/off tool and packer. The setting depths and descriptions of each are to be included in the subsequent sundry. List daily descriptions of any previously unreported wellbore workover(s) and reason(s) the well annular fluid was replaced.
- 17) A plan to monitor the annulus for the life of the well must be submitted to the BLM.**

JAM/PRS 070213