

OCD-HOBBS

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other: INJECTION		5. Lease Serial No. NMLC031670A
2. Name of Operator CONOCOPHILLIPS COMPANY		6. If Indian, Allottee or Tribe Name
Contact: RHONDA ROGERS E-Mail: rogerr@conocophillips.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address P. O. BOX 51810 MIDLAND, TX 79710	3b. Phone No. (include area code) Ph: 432-688-9174	8. Well Name and No. SEMU 247
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 24 T20S R37E Mer NMP SENE 2139FNL 265FEL		9. API Well No. 30-025-42019
		10. Field and Pool or Exploratory Area SKAGGS
		11. County or Parish, State LEA COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

CONOCOPHILLIPS COMPANY WOULD LIKE TO CONDUCT A SRT PER ATTACHED PROCEDURES.

*Submit Step Rate Test data for WH pressure increase.*

14. I hereby certify that the foregoing is true and correct. Electronic Submission #372656 verified by the BLM Well Information System For CONOCOPHILLIPS COMPANY, sent to the Hobbs Committed to AFMSS for processing by DEBORAH MCKINNEY on 04/12/2017 ()	
Name (Printed/Typed) RHONDA ROGERS	Title STAFF REGULATORY TECHNICIAN
Signature (Electronic Submission)	Date 04/11/2017
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.	
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.	Office _____

(Instructions on page 2)

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

SEMU-247W  
API #30-025-42019  
Step-Rate Test

Perforations			
Type	Formation	Top (RKB): ft	Bottom (RKB): ft.
Open Perforations (04.10.17)	Grayburg	3,859	4,077
PBD		4,247	
TD (08.17.01)			4,304

**Well Procedure:**

PRE-STEP RATE TEST: Obtain Charted 48-Hour Surface Pressure Fall-Off

- 1) Obtain current WIC-sourced injection pressure & injection rate
  - a. current injection rate: 235 BWIPD; equivalent to: 0.1632 BPM
  - b. current injection pressure: 771 psig; equivalent to 0.1814 psi/ft to uppermost perforation @ 3859
- 2) Obtain injection water sample.
  - a. Report field-measured mud-balance determined density (ppg) of injection water.
- 3) SI well minimum 48-hrs. Conduct WIC-sourced surface pressure fall-off test.
  - a. Document the 48-hour fall-off test on a 7-day full rotation calibrated recorder chart registering within 25 to 85 per cent of full range (0-1000#). Digital fall-off data will also be captured by WIC.
  - b. Current Surface Injection Pressure: 720 psig
  - c. Current Permitted Surface Injection Pressure: 771 psig (0.20 psig/ft x uppermost perf depth: 3859)

NOTE: Post-48 hour surface SI pressure is to be less than the Permitted Surface Injection Pressure prior to conducting Step Rate Test (SRT).

**STEP RATE TEST:**

NOTE: BLM to be notified 24-hours before beginning SRT at 575-200-7902. If no answer, call:  
575-361-2822 (Eddy County)  
575-393-3612 (Lea County)

If no answer, leave a voice mail or e-mail with:

API Number  
Workover Purpose  
Call-back Phone Number  
Note the contact, time & date in the subsequent report

Operator is required to have the BLM approved NOI procedure with applicable Conditions of Approval (COA) on location for this workover operation

- 4) RU Cardinal Surveys.
  - a. Record SITP.
  - b. NU lubricator. Test @ 2000# (SEMU injection system line pressure: 1850 psig).
  - c. RIH w/ downhole pressure transmitting tool. Obtain static fluid gradient survey while running in hole making 2-minute gradient stops at 500 ft. intervals:
    - i. 500
    - ii. 1000
    - iii. 1500
    - iv. 2000



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Step-Rate Test

- v. 3000
  - vi. 3500
  - vii. 3855 (uppermost perforation: 3859; PKR: 3828-3837; PBD: 4247)
- d. Position downhole pressure transmitting tool at approximately 3855. Record static BHP for 15 minutes (The bottom-hole pressure measurement to be recorded just above the open perforations).
- e. RU pumping services
- f. Perform Step Rate Test (SRT) w/ a minimum of 7 isochronal\* steps:
- i. Calculate seven injection rates by multiplying the Targeted Maximum Injection Rate (BPM) by:  
 SEMU-243 Targeted Maximum Injection Rate: 1,400 BWIPD (0.972 BPM)
    - Step Rate-1\*: 0.20 x 400 BWIPD/1440 min/D 0.194 BPM (280 BPD)
    - Step Rate-2: 0.30 x 400 BWIPD/1440 min/D 0.292 BPM (420 BPD)
    - Step Rate-3: 0.40 x 400 BWIPD/1440 min/D 0.389 BPM (560 BPD)
    - Step Rate-4: 0.40 x 400 BWIPD/1440 min/D 0.486 BPM (701 BPD)
    - Step Rate-5: 0.60 x 400 BWIPD/1440 min/D 0.583 BPM (840 BPD)
    - Step Rate-6: 0.80 x 400 BWIPD/1440 min/D 0.778 BPM (1120 BPD)
    - Step Rate-7: 1.00 x 400 BWIPD/1440 min/D 0.972 BPM (1400 BPD)
  - ii. Record following @ 5 minute intervals (minimum 30 minutes):
    - Surface pressure: psig until pressure stabilizes\*
    - Bottom-Hole pressure: psig until pressure stabilizes\*
    - Injection Rate: BPM (+0.1 BPM)

**NOTE:**

Stabilized pressure:	defined as +15 psig for 10 minutes
Step rate time period:	minimum 30 minutes limited to + 1 minute variance of previous time period
Step Rate-1:	limited to surface pressure less than 771 psig
Step Rate-2:	limited to surface pressure less than 771 psig (771 psig: 0.20 psig/ft. x uppermost perforation depth @ 3859)

### NOTE: Calibration Requirements

Surface Pressure: to be within + 10 psig  
Downhole Pressure: to be within + 10 psig  
Surface Rate: to be within + 0.1 BPM

[illegible]

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40														
45														
50														
55														
60														

- iii. After completion of SRT, SI well. Record: ISIP, 5 min, 10 min & 15 min shut-in pressure.

Time min	P(surf) (psig)	BHP (psig)
0 (ISIP)		
5		
10		
15		

- iv. RD Lubricator

- v. RD Cardinal

- vi. RD pumping services

- 5) Return well to injection service at a WIC-controlled surface injection pressure of 720 psig.

- vii. Current Permitted Surface Injection Pressure: 771 psig (0.20 psig/ft. x uppermost perforation depth: 3859)