

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
3a. Address P. O. BOX 51810 MIDLAND, TX 79710		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 432-688-9174		8. Well Name and No. SEMU 250
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 19 T20S R38E Mer NMP SENW 1371FNL 1786FWL		9. API Well No. 30-025-42021
		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 recompleat 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 would like to perform a SRT per attached procedures.

*Procedure approved. File Subsequent Report of Step Rate Test Data.*

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #373239 verified by the BLM Well Information System  
For CONOCOPHILLIPS COMPANY, sent to the Hobbs  
Committed to AFMSS for processing by DEBORAH MCKINNEY on 04/20/2017 ()

Name (Printed/Typed) RHONDA ROGERS	Title STAFF REGULATORY TECHNICIAN
Signature (Electronic Submission)	Date 04/19/2017

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By _____	Title _____	Date _____
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.

(Instructions on page 2)

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

SEMU-250W  
API #30-025-42021  
Step-Rate Test

Injection Information			
Date	4.2017		
Rate: BWIPD	130		
Pressure: psig	750		

Perforations			
Type	Formation	Top (RKB): ft	Bottom (RKB): ft.
Open Perforations (04.10.17)	Grayburg	3,818	4,020
PBD		4,217	
TD (8.29.14)			4,276

**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: 130 BWIPD; equivalent to: 0.0903 BPM
  - b. current injection pressure: 750 psig; equivalent to 0.1964 psi/ft to uppermost perforation @ 3818
- 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: 750 psig
  - c. Current Permitted Surface Injection Pressure: 74 psig (0.20 psig/ft x uppermost perf depth: 3818)

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



## SEMUR-250W

API #30-025-42021

### Step-Rate Test

#### 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**
  - v. 3000
  - vi. 3500
  - vii. 3818 (uppermost perforation: 3818; PKR: 3796-3804; PBD: 42117)
- d. Position downhole pressure transmitting tool at approximately 3815. 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-250 Targeted Maximum Injection Rate: 1000 BWIPD (0.6944 BPM)

• Step Rate-1*:	0.20 x 1000 BWIPD/1440 min/D	0.139 BPM (200 BPD)
• Step Rate-2:	0.30 x 1000 BWIPD/1440 min/D	0.208 BPM (300 BPD)
• Step Rate-3:	0.40 x 1000 BWIPD/1440 min/D	0.278 BPM (400 BPD)
• Step Rate-4:	0.50 x 1000 BWIPD/1440 min/D	0.347 BPM (500 BPD)
• Step Rate-5:	0.60 x 1000 BWIPD/1440 min/D	0.417 BPM (600 BPD)
• Step Rate-6:	0.80 x 1000 BWIPD/1440 min/D	0.556 BPM (800 BPD)
• Step Rate-7:	1.00 x 1000 BWIPD/1440 min/D	0.694 BPM (1000 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 764 psig
Step Rate-2:	limited to surface pressure less than 764 psig
	(756 psig: 0.20 psig/ft. x uppermost perforation depth @ 3818)

### 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

SEMU-250W  
API #30-025-42021

Step-Rate Test

Time	Rate 1	0.139 BPM	Rate 2	0.208 BPM	Rate 3	0.278 BPM	Rate 4	0.347 BPM	Rate 5	0.417 BPM	Rate 6	0.556 BPM	Rate 7	0.694 BPM
min	P(surf) (psig)	BHP (psig)	P(surf) (psig)	BHP (psig)	P(surf) (psig)	BHP (psig)	P(surf) (psig)	BHP (psig)	P(surf) (psig)	BHP (psig)	P(surf) (psig)	BHP (psig)	P(surf) (psig)	BHP (psig)
5														
10														
15														
20														
25														
30														
35														
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 764 psig.

- vii. Current Permitted Surface Injection Pressure: 764 psig (0.20 psig/ft. x uppermost perforation depth: 3818)