

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**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.5. Lease Serial No. **NMNM36949**
6. If Indian, Allottee or Tribe Name**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other2. Name of Operator **ENDURING RESOURCES LLC**3a. Address **200 ENERGY COURT, FARMINGTON, NM 8740**3b. Phone No. (include area code)
(505) 497-8574

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

WLU 2309 24N FEDERAL SWD/001

9. API Well No. **3004538292**10. Field and Pool or Exploratory Area
WEST LYBROOK UNIT4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 24/T23N/R9W/NMP11. Country or Parish, State
SAN JUAN/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 recompleat 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 detennined that the site is ready for final inspection.)

Enduring Resources will be performing a step rate test on the well as part of the requirements for a pressure increase request to NMOCD. The step rate test is attached.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
HEATHER HUNTINGTON / Ph: (505) 636-9751Title **Permitting Technician**(Electronic Submission)
SignatureDate **05/08/2025****THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

KENNETH G RENNICK / Ph: (505) 564-7742 / ApprovedTitle **Petroleum Engineer**Date **05/09/2025**

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 **FARMINGTON**

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)

Additional Information

Location of Well

0. SHL: SESW / 294 FSL / 2284 FWL / TWSP: 23N / RANGE: 9W / SECTION: 24 / LAT: 36.205918 / LONG: -107.740955 (TVD: 0 feet, MD: 0 feet)

PPP: 0 / 0 / SECTION: / LAT: 0.0 / LONG: 0.0 (TVD: 0 feet, MD: 0 feet)

BHL: SESW / 294 FSL / 2284 FWL / TWSP: 23N / RANGE: 9W / SECTION: 24 / LAT: 36.205918 / LONG: -107.740955 (TVD: 115 feet, MD: 6778 feet)

CONFIDENTIAL



ENDURING RESOURCES

6300 S SYRACUSE WAY, STE 525
CENTENNIAL, CO 80111

Date: 5.7.2025

Prepared By: Sean Owens

STEP-RATE TEST PROCEDURE

WELL NAME: W Lybrook Unit 2309-24N SWD 001, fka W Lybrook Unit 2309-24N WSW (SJ-4301 POD3)

API NUMBER: 30-045-38292

LEGAL LOCATION Sec. 24, T23N, R9W, San Juan County, NM

SURFACE ELEVATION: 6,878 ft ASL (GL) 6,893 ft ASL (KB)

SURFACE LOCATION: 36.205918 ° N latitude & 107.740955 ° W longitude (NAD 1983)

DRIVING DIRECTIONS: **From the intersection of US HWY 550 & US HWY 64 in Bloomfield:**

South on US HWY 550 for 37.8 miles to MM 113.4, right (southwest) on CR 7890 for 0.8 miles to fork; left (south) staying on CR 7890 for 1.3 miles to 4-way intersection, left (southeast) staying on CR 7890 for 0.6 miles to fork, right (southwest) staying on CR 7890 for 0.5 miles, right onto lease road and into location.

CASING SUMMARY:

Casing OD	Hole Size	Weight	Grade	MD Top (KB)	MD Btm (KB)	TOC
13-3/8"	17-1/2"	54.5 lbs/ft	J-55	15'	397'	Surface
7"	8-3/4"	26.0 lbs/ft	L-80	15'	7,398'	Surface

TUBING SUMMARY:

Item Description		MD Top (KB)	MD Btm (KB)
Tubing:	176 jts 4-1/2" 11.60# J-55 IPC	15'	6,787'
Crossover:	4-1/2" x 3-1/2"	6,787'	6,788'
On/Off:	7" x 3-1/2" EUE On/Off Tool w/ 2.81" Profile	6,788'	6,790'
Packer:	7" AS1X - RHR Nickel Coated	6,790'	6,798'

INJECTION HISTORY: (Note: This well was converted from a WSW to a SWD in March of 2023)

Year	Disposal Volume (bbl)	Average Pressure (psi)	Comments
2023	1,888,053	603	3/21/2023 - 12/31/2023
2024	2,200,747	841	
2025	681,053	915	1/1/2025 - 3/31/2025

PERFORATIONS:

Top	Btm
6,851'	6,856'
6,895'	6,900'
6,917'	6,922'
6,953'	6,958'
6,985'	6,990'

COMPLETION HISTORY: No stimulation has been performed on the WLU 2309-24N, and no ISIP is recorded.

CURRENT INJECTION:

Pressure Limit:	1,370	psi
Rate Limit:	20,000	bbl/day
Monitoring Device:	Emerson FloBoss 107	

REQUIREMENTS:

1. Notify the NMOCD district office at least 72 hours prior to the scheduled SRT, so OCD personnel may witness the test, if needed.
2. Well must be shut-in at least 48 hours before the SRT.
3. Conduct a bradenhead test and MIT prior to performing the SRT.
4. Casing and bradenhead pressures must be continuously monitored during the SRT.
5. Each step of the SRT must be the same duration of 30 minutes, and must result in a stabilized pressure value. If steps are carried out in different lengths of time, if steps don't result in a stabilized pressure, or if a formation parting/fracture is not clearly indicated, the OCD may consider the SRT inconclusive.
6. At least 3 steps below the current pressure limit of 1,370 psi must be established.
7. At least 3 steps above the fracture parting pressure must be established.

PROCEDURE:

1. Install a pressure gauge on the bradenhead valve.
2. Ensure location has sufficient fluid to inject for duration of SRT.
3. Load hole with produced water.
4. Begin SRT at 8.0 bpm. Three data points below the current pressure limit of 1,370 psi must be obtained. Hold each rate step for 30 minutes, recording pressure every 5 minutes, and charting pressure at the end of each rate step.
5. Continue to increase rate at 0.5 bpm increments until achieving the fracture point (estimated at ~15.0 bpm). Once the fracture point is exceeded, continue to increase rate at 0.5 bpm increments until at least 3 data points are recorded.

*** 5 or more data points are preferred to ensure fracture has been achieved ***

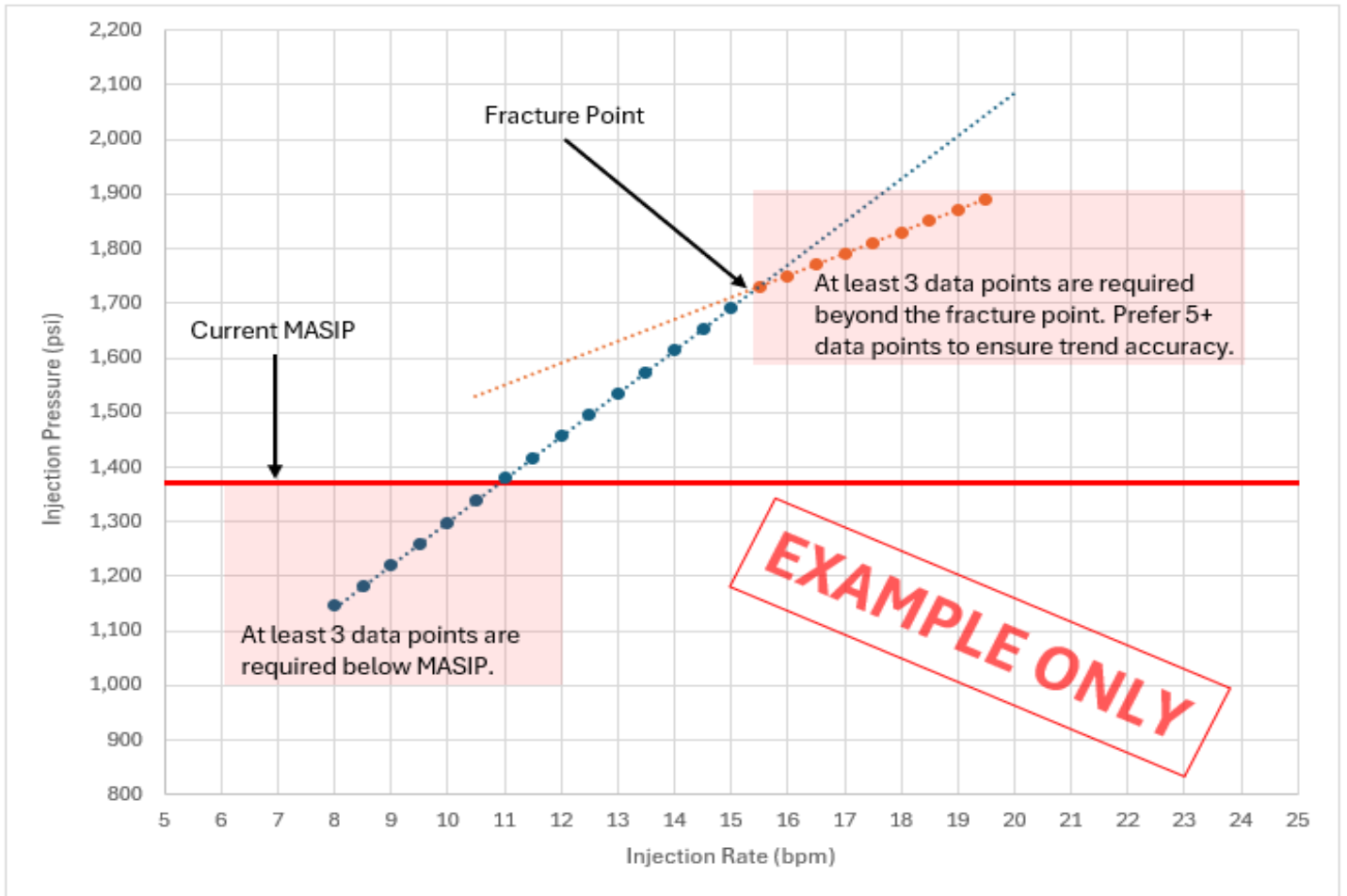
6. The Test Procedure and an example pressure chart are shown below:

**TEST
PROCEDURE**

Step	Rate (bpm)	Rate (bpd)	Duration (min)	Cumulative Duration (hrs)	Volume (bbl)	Cumulative Volume (bbl)	Anticipated Inj Pressure (psi)
1	8.0	11,520	30	0.5	240	240	1,146
2	8.5	12,240	30	1.0	255	495	1,183
3	9.0	12,960	30	1.5	270	765	1,220
4	9.5	13,680	30	2.0	285	1,050	1,258
5	10.0	14,400	30	2.5	300	1,350	1,298
6	10.5	15,120	30	3.0	315	1,665	1,339
7	11.0	15,840	30	3.5	330	1,995	
8	11.5	16,560	30	4.0	345	2,340	
9	12.0	17,280	30	4.5	360	2,700	
10	12.5	18,000	30	5.0	375	3,075	
11	13.0	18,720	30	5.5	390	3,465	
12	13.5	19,440	30	6.0	405	3,870	
13	14.0	20,160	30	6.5	420	4,290	
14	14.5	20,880	30	7.0	435	4,725	
15	15.0	21,600	30	7.5	450	5,175	
16	15.5	22,320	30	8.0	465	5,640	
17	16.0	23,040	30	8.5	480	6,120	
18	16.5	23,760	30	9.0	495	6,615	
19	17.0	24,480	30	9.5	510	7,125	
20	17.5	25,200	30	10.0	525	7,650	

(cont.)

Step	Rate (bpm)	Rate (bpd)	Duration (min)	Cumulative Duration (hrs)	Volume (bbl)	Cumulative Volume (bbl)	Anticipated Inj Pressure (psi)
21	18.0	25,920	30	10.5	540	8,190	
22	18.5	26,640	30	11.0	555	8,745	
23	19.0	27,360	30	11.5	570	9,315	
24	19.5	28,080	30	12.0	585	9,900	



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 461120

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 461120
	Action Type: [C-103] NOI General Sundry (C-103X)

CONDITIONS

Created By	Condition	Condition Date
mgebremichael	None	5/14/2025