

UICI - 11

FALL-OFF TEST

2022

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) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM
 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

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. 30-045-35747
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other Wastewater Disposal Well		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator Western Refining Southwest LLC		6. State Oil & Gas Lease No.
3. Address of Operator 50 County Road 4990 Bloomfield, NM 87413		7. Lease Name or Unit Agreement Name
4. Well Location Unit Letter <u>H</u> : <u>2028</u> feet from the <u>North</u> line and <u>111</u> feet from the <u>East</u> line Section <u>27</u> Township <u>29N</u> Range <u>11W</u> NMPM San Juan County		8. Well Number: WDW #2
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		9. OGRID Number 267595
10. Pool name or Wildcat Entrada		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: Fall Off Test & Bradenhead Test <input checked="" type="checkbox"/>		OTHER: <input type="checkbox"/>	

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.

Pursuant to the Bloomfield Terminal Injection Well Discharge Permit (UICI-011), Western Refining Southwest LLC ("Western") is scheduled to conduct a Bradenhead Test followed by a Fall-Off Test (FOT) on WDW #2.

The Bradenhead and Intermediate casings pressure test of WDW #2 is scheduled for Wednesday, September 14, 2022.

The fall-off test will consist of three phases:

- Phase 1: Build-Up
- Phase 2: Pressure Fall-Off Monitoring
- Phase 3: Post Monitoring Operations

Phase 1: Build-Up

The Build-Up Phase involves the injection of the Terminal's treated wastewaters into the well for approximately 72 hours or until the injection pressure reaches the high-pressure set-point of 1,400 psi, whichever occurs first. A stabilized injection rate will be established using the dedicated injection well pump. Following the 24-hour stable injection period, tandem memory gauges will be installed through the crown valve and lubricator using a slick-line unit. The gauges will be positioned at 7,312 feet below grade (reflective to the top of the injection interval). The memory gauges to be Spartek Systems Model SS2100 provided by Expert Downhole Services that will have a resolution of 0.01 psi and an accuracy of $\pm 0.05\%$ of full scale. The pressure range of the gauges will be 0-5,000 psi minimum. The stable injection rate will continue for a minimum of 48-hours following the placement of the tandem memory gauges to allow the gauges to stabilize. During this time, down-hole pressure readings will be recorded. Once the stabilization time has elapsed, the injection well pump will be shut down and the well will be blocked-in by closing the valve at the wellhead and in the pump room (double-block).

Phase 2: Pressure Fall-Off Monitoring

With the well blocked-in, bottom-hole readings will be recorded for a minimum of 3 days and up to 14 days. The recording period will be set to record pressures at a minimum of 5-minute intervals with readings collected more frequently during the early part of the Fall-Off Test period.


Phase 3: Post Monitoring Operations

Following completion of the fall-off monitoring, the gauges will be pulled while making 5-minute stops at each 1,000 ft interval starting at 7,000 ft to collect pressure gradient readings. After removal of the gauges, WDW #2 will return to normal operation.

Upon receipt of NMOCD approval of this test protocol, Western will coordinate with the OCD Aztec District Office to provide the opportunity to witness all testing activities. The intent is to initiate field-testing activities no later than Wednesday, September 14th to ensure completion of field activities prior to the end of September 30, 2022.

Spud Date: Rig Release Date:

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

SIGNATURE  TITLE Environmental Professional DATE 8/23/22

Type or print name Gary Russell E-mail address: gfrussell@marathonpetroleum.com PHONE: 678-594-6377

For State Use Only

APPROVED BY:  TITLE Environmental Engineer DATE 9/7/2022
Conditions of Approval (if any):

From: [Russell, Gary F.](#)
To: [Chavez, Carl J, EMNRD](#); [Brunet, Marc](#)
Cc: [Goetze, Phillip, EMNRD](#)
Subject: RE: [EXTERNAL] UIC Class I Injection Wells (UICI-11) Annual Fall-Off Test Reminder: Due on or before 9/30/2022
Date: Friday, April 22, 2022 10:51:28 AM
Attachments: [image002.png](#)

Mr. Chavez,

Thank you for the reminder. We will be prepared for the annual test and submit via the E-Permitting site.

Have a wonderful weekend!



Gary Russell, CHMM
Sr. HES Professional
L&S Terminals
112 TownPark Dr, Suite 125
Kennesaw, GA 30144
Office: 678-594-6377
Mobile: 210-970-1970
Email: gfrussell@marathonpetroleum.com

From: Chavez, Carl J, EMNRD <CarlJ.Chavez@state.nm.us>
Sent: Friday, April 22, 2022 11:24 AM
To: Russell, Gary F. <GFRussell@Marathonpetroleum.com>; Gonzales, Gustavo <Gustavo.Gonzales@Marathonpetroleum.com>
Cc: Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>
Subject: [EXTERNAL] UIC Class I Injection Wells (UICI-11) Annual Fall-Off Test Reminder: Due on or before 9/30/2022

Gary, Gustavo, et al.,

Good morning!

I am writing to remind Class I Injection Well Permittees to submit their annual FOTs to the OCD via E-Permitting by the above subject date.

Please acknowledge and contact me if you have questions.

Thank you.

Carl J. Chavez • UIC Group

Engineering Bureau
EMNRD - Oil Conservation Division
5200 Oakland Avenue, N.E. Suite 100 | Albuquerque, NM 87113
505.660.7923
www.emnrd.nm.gov



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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District IV
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Phone:(505) 476-3470 Fax:(505) 476-3462

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COMMENTS

Action 136680

COMMENTS

Operator: Western Refining Southwest LLC 539 South Main Street Findlay, OH 45840	OGRID: 267595
	Action Number: 136680
	Action Type: [C-103] NOI General Sundry (C-103X)

COMMENTS

Created By	Comment	Comment Date
cchavez	Fall-Off Test (FOT) 2022	9/7/2022

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CONDITIONS

Created By	Condition	Condition Date
cchavez	1) Comply with OCD Test Plan Guidance; 2) Notify Aztec Office of Dates and Times for Bottom Hole Gauge Installation/Removal and time steady-state injection stops and FOT monitoring starts; and 3) Comply with OCD FOT Report Guidelines.	9/7/2022