UICI - ___011____

C-103s

Submit 1 Copy To Appropriate District Office <u>District I</u> – (575) 393-6161	State of New Mexico Energy, Minerals and Natural Resources	Form C-103 Revised July 18, 2013
1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210 District III – (505) 334-6178	OIL CONSERVATION DIVISION	WELL API NO. 30-045-35747 5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
SUNDRY NOTICES (DO NOT USE THIS FORM FOR PROPOSALS DIFFERENT RESERVOIR. USE "APPLICATI	S AND REPORTS ON WELLS S TO DRILL OR TO DEEPEN OR PLUG BACK TO A ON FOR PERMIT" (FORM C-101) FOR SUCH	7. Lease Name or Unit Agreement Name
1. Type of Well: Oil Well 🔲 Gas	Well 🛛 Other Wastewater Disposal Well	8. Well Number: WDW #2
2. Name of Operator Western Refining Southwest,,Inc.		9. OGRID Number 267595
 Address of Operator County Road 4990 (PO Box 159) B 	loomfield, NM 87413	10. Pool name or Wildcat Entrada
4. Well Location		
Unit Letter H : 2	2028 feet from the <u>North</u> line and	<u>East</u> feet from theline
Section 27	Township 29N Range 11W	NMPM San Juan County
11 	1. Elevation (Show whether DR, RKB, RT, GR, etc.,	

NOTICE OF	INTENTION TO:	SUBSEQUENT RE	PORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING OPNS.	PANDA 🗌
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT JOB	
DOWNHOLE COMMINGLE			
CLOSED-LOOP SYSTEM			
OTHER: Fall Off Test		 OTHER:	

 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, Inc. ("Western") is scheduled to perform a Fall-Off Test (FOT) on WDW #2. 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 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. Due to the limited time the injection well can operate before reaching the high-pressure set-point of 1,400 psi, tandem memory gauges will first be installed through the crown valve and lubricator using a slick-line unit. The gauges will be positioned at 7,312 ft below grade (reflective to the top of the injection interval). The memory gauges to be used are SP-2000 hybrid-quartz gauges provided by Tefteller, Inc. 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 dedicated injection well will operate for 72-hours or until the discharge pressure approaches the 1,400 psi shutdown pressure 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, the well will return to normal operation.

Upon receipt of NMOCD approval of this test protocol, Western will coordinate with NMOCD District III to provide the opportunity to witness all testing activities. The intent is to initiate field-testing activities on Friday, September 18th to ensure completion of field activities prior to September 30, 2020.

Spud Date:	Rig Release Date:	
I hereby certify that the information above is true and c	omplete to the best of my knowledge and belief.	
SIGNATURE Kellifdenory	TITLE Environmental Superior	_{DATE} ٩/١७/20
Type or print name	E-mail address:	PHONE:
For State Use Only APPROVED BY: Carl J. University	Environmental Engineer	_DATE9/17/2020
Conditions of Approval (II any):		

- 1) Permittee shall gradually increase the injection flow rate and injection pressure over time to attain and achieve the appropriate steady-state condition below the permit MSIP before FOT monitoring.
- 2) If the Permittee is unable to achieve a steady-state condition before FOT monitoring, the test shall proceed in order to study and evaluate test results and provide observations, conclusions and final recommendations from the test based on operational conditions.
- 3) The Permittee shall ensure the perforated interval, borehole and the immediate injection interval is free from obstructions before the FOT.
- 4) The Permittee shall apply a pressure gauge with the resolution and accuracy requirements commensurate with the Fall-Off Test Plan requirements.
- 5) The Permittee shall provide notice of the dates and times for installation of any bottom hole gauge(s) start of FOT monitoring, bottom hole gauge recovery and MITs to the OCD District Office.

Submit 1 Copy To Appropriate District Office <u>District 1</u> – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240 <u>District 11</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210 <u>District 111</u> – (505) 334-6178 1000 Rio Brazos Rd, Aztec, NM 87410 <u>District 117</u> – (505) 476-3460 1220 S. St. Francis Dr. Smita Fe. NM	State of New Mexico Energy, Minerals and Natural Resources OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-103 Revised July 18, 2013 WELL API NO. 30-045-35747 5. Indicate Type of Lease STATE FEE S 6. State Oil & Gas Lease No.
87505 SUNDRY NOTICI (DO NOT USE THIS FORM FOR PROPOSA DIFFERENT RESERVOIR. USE "APPLICA" PROPOSALS.) 1. Type of Well: Oil Well G	 7. Lease Name or Unit Agreement Name 8. Well Number: WDW #2 	
 Name of Operator Western Refining Southwest, Inc. Address of Operator 		9. OGRID Number 267595
50 County Road 4990 (PO Box 159) 4. Well Location Unit Letter H_: Section 27	2028 feet from the North line and Township 29N Range 11W 11 Elementary (Share whether DB_RKB_RT_CR) at a	Entrada <u>East</u> feet from the line NMPM San Juan County
	11. Elevation (Show whether DA, KKB, KI, UK, etc.	

NOTICE OF IN	FENTION TO:	SUBSEQUENT	REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING OPNS	🗋 PANDA 🗌
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT JOB [
DOWNHOLE COMMINGLE			
CLOSED-LOOP SYSTEM		AC AC	R 11 2019 PM03:35
OTHER: Braden Head Test	\boxtimes	OTHER:	

 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 Condition 3.D.1 of the Bloomfield Terminal Injection Well Discharge Permit (UICI-011), Western Refining Southwest, Inc. intends to perform a Braden Head Test prior to conducting the Fall-Off Test. The test will be performed on the Braden Head and intermediate casing. The test will consist of blocking-in the Braden Head and Intermediate casing valves independently for at least 24-hour prior to conducing the test. The discharge of each casing valve will be a pressure gauge on the down-hole side of the valve to measure the casing pressure. With a representative of NMOCD on-site to witness the test, the Braden Head and Intermediate casing valves will be opened for a minimum of 15-minutes to witness any discharge of fluids. Once the test is completed, the Fall-Off Testing activities will begin (procedures are to be submitted as a separate Sundry Notice for Agency Review).

Upon receipt of NMOCD's approval of the testing protocol, Western will coordinate with NMOCD Aztec District Office to schedule the field activities that best work their availability.

Spud Date:	Rig Release Date:
I hereby certify that the information above is true and $(A = A + A)$	d complete to the best of my knowledge and belief.
SIGNATURE Mellipoleusou	TITLE Environmental Supervisor DATE 4-5-19
Type or print name Kelly Robinson	E-mail address: Kelly. Robinson Candenvor. com
APPROVED BY: Conditions of Approval (if any):	TITLE Engine DATE 4/12/19

Sub nit 1 Copy To Appropriate District Office <u>District I</u> – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210 <u>District III</u> – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM	State of New Mexico Energy, Minerals and Natural Resources OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-103 Revised July 18, 2013 WELL API NO. 30-045-35747 5. Indicate Type of Lease STATE FEE 6. State Oil & Gas Lease No.
SUNDRY NOTION (DO NOT USE THIS FORM FOR PROPOS DIFFERENT RESERVOIR. USE "APPLIC PROPOSALS.)	CES AND REPORTS ON WELLS GALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A CATION FOR PERMIT" (FORM C-101) FOR SUCH	7. Lease Name or Unit Agreement Name
 Type of Well: Oil Well Name of Operator Western Refining Southwest Inc. 	Gas Well 🛛 Other Wastewater Disposal Well	8. Well Number: WDW #29. OGRID Number 267595
3. Address of Operator 50 County Road 4990 (PO Box 159) Bloomfield, NM 87413	10. Pool name or Wildcat Entrada
4. Well Location Unit Letter H Section 27	<u>2028</u> feet from the <u>North</u> line and <u>Township 29N Range 11W</u>	<u>East</u> feet from the <u>line</u> NMPM San Juan County

NOTICE OF I	NTENTION TO:	SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	
TEMPORARILY ABANDON	CHANGE PLANS		
PULL OR ALTER CASING] MULTIPLE COMPL	CASING/CEMENT JOB	
DOWNHOLE COMMINGLE]		
CLOSED-LOOP SYSTEM]		
OTHER: Fall Off Test	\boxtimes	OTHER:	_

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.

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to perform a Fall-Off Test (FOT). 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 wastewaters into the well for 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 ft below grade (reflective to the top of the injection interval) while maintaining a stable injection rate. The memory gauges to be used are SP-2000 hybrid-quartz gauges provided by Tefteller, Inc. that will have a resolution of 0.01 psi and an accuracy of ± 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 (doubleblock).

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APR 11 2019 PH03:34

Phase 3: Post Monitoring Operations

74 V

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, the well will return to normal operation.

Spud Date:	Rig Release Date:
I hereby certify that the information above is true and c SIGNATURE Killy OUP 20	TITLE Euvivoruntal Supervisor DATE 4/5/19
Type or print name Kelly Robiuson	E-mail address: Kelly. Robinson CandeavopHONE: (205)632-4166
APPROVED BY: Conditions of Approval (if any):	TITLE Environmentel Enginer DATE 4/12/19

Chavez, Carl J, EMNRD

From:	Chavez, Carl J, EMNRD
Sent:	Friday, April 5, 2019 1:46 PM
То:	'Robinson, Kelly'
Cc:	Powell, Brandon, EMNRD; Kuehling, Monica, EMNRD; Roberts, Tommy D; Dooling,
	Frank; Griswold, Jim, EMNRD
Subject:	RE: Sundry Notifications for Class 1 Injection Well Testing - Bloomfield Terminal

Kelly, received.

Thank you.

Mr. Carl J. Chavez, CHMM (#13099) New Mexico Oil Conservation Division Energy Minerals and Natural Resources Department 1220 South St Francis Drive Santa Fe, New Mexico 87505 Ph. (505) 476-3490 E-mail: <u>Carl J. Chavez@state.nm.us</u> "Why not prevent pollution, minimize waste to reduce operating costs, reuse or recycle, and move forward with the rest of the Nation?" (To see how, go to: <u>http://www.emnrd.state.nm.us/OCD</u> and see "Publications")

From: Robinson, Kelly <Kelly.Robinson@andeavor.com>
Sent: Friday, April 5, 2019 1:12 PM
To: Chavez, Carl J, EMNRD <CarlJ.Chavez@state.nm.us>
Cc: Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Kuehling, Monica, EMNRD
<monica.kuehling@state.nm.us>; Roberts, Tommy D <Tommy.D.Roberts@andeavor.com>; Dooling, Frank
<Frank.F.Dooling@andeavor.com>
Subject: [EXT] Sundry Notifications for Class 1 Injection Well Testing - Bloomfield Terminal

Good Afternoon Sir!

Pursuant to Permit Condition 3.D.1 of Discharge Permit UICI-011, Western Refining is submitted the attached protocols to conduct the Braden Head Test and Fall-Off Test, respectively. As stated in the attached protocols, Western will coordinate the schedule for conducting the field tests with the New Mexico Oil Conservation Division Aztec District Office to provide opportunity for them to observe the testing activities. If you have any questions regarding these protocols, please feel free to contact me at your convenience. A hard copy of these notifications will be submitted to Aztec District Office and Santa Fe District Office as previously requested.

Thank you so much for your time!

Sincerely,

Kelly R. Robinson | Environmental Supervisor– Terminalling, Transportation and Storage Andeavor | 111 County Road 4990, Bloomfield, NM 87413 Office: 505.632.4166 | Mobile: 505.801.5616 | Kelly.Robinson@andeavor.com

Submit 1 Copy To Appropriate District	State of New Mexico	Form C-103
Once District $I = (575) 393-6161$	Energy, Minerals and Natural Resources	Revised July 18, 2013
$\frac{\text{District I} - (575) 393-6161}{1625 \text{ N}. \text{ French Dr., Hobbs, NM 88240}}$ $\frac{\text{District II} - (575) 748-1283}{811 \text{ S}. \text{ First St., Artesia, NM 88210}}$ $\frac{\text{District III} - (505) 334-6178}{1000 \text{ Rio Brazos Rd., Aztec, NM 87410}}$ $\frac{\text{District IV} - (505) 476-3460}{1220 \text{ S}. \text{ St. Francis Dr., Santa Fe, NM}}$ $\frac{87505}{1000 \text{ St. St. Francis Dr., Santa Fe, NM}}$	OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505	WELL API NO. 30-045-35747 5. Indicate Type of Lease STATE FEE S 6. State Oil & Gas Lease No.
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3. Address of Operator 50 County Road 4990 (PO Box 159)	Bloomfield, NM 87413	10. Pool name or Wildcat Entrada
4. Well Location		
Unit Letter H :	_2028feet from theNorthline and	<u>East</u> feet from the line
Section 27	Township 29N Range 11W	NMPM San Juan County
	11. Elevation (Show whether DR, RKB, RT, GR, etc.)	
12. Check Ap	propriate Box to Indicate Nature of Notice,	Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK 🔲 🛛 PLUG AND ABANDON 🔲	REMEDIAL WORK ALTERING CASING
TEMPORARILY ABANDON 📋 CHANGE PLANS 🛛	COMMENCE DRILLING OPNS. PAND A
PULL OR ALTER CASING 🛛 MULTIPLE COMPL 🗌	CASING/CEMENT JOB
CLOSED-LOOP SYSTEM	
OTHER: Braden Head Test	OTHER:

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.

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Upon receipt of NMOCD's approval of the testing protocol, Western will coordinate with NMOCD Aztec District Office to schedule the field activities that best work their availability.

	I		
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 Helly Oluon	TITLE Environmental Spervisor	DATE 4-5-19
Type or print name Kally Robinson For State Use Only	E-mail address: Kelly. Robinson Caus	PHONE: 505-632-4166
APPROVED BY:	TITLE	DATE

Conditions of Approval (if any):

Submit 1 Copy To Appropriate District Office <u>District I</u> – (575) 393-6161 1625 N. French Dr. Hobbs NM 88240	State of New Mexico Energy, Minerals and Natural Resources	Form C-103 Revised July 18, 2013 WELL API NO.
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4. Well Location		
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1	1. Elevation (Show whether DR, RKB, RT, GR, etc.	

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Phase 3: Post Monitoring Operations

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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, the well will return to normal operation.

Spud Date:	Rig Release Date:	
I hereby certify that the information above is true as SIGNATURE Kelly OUUP 201	nd complete to the best of my knowled	Supervice DATE 4/5/19
Type or print name Kelly Robinson	E-mail address: Kelly. Robin	Won CaudeavorHONE: (305)652-4166
APPROVED BY: Conditions of Approval (if any):	TITLE	DATE

-

Chavez, Carl J, EMNRD

From:	Chavez, Carl J, EMNRD
Sent:	Friday, September 28, 2018 2:30 PM
То:	Robinson, Kelly
Cc:	Griswold, Jim, EMNRD; Jones, William V, EMNRD; Powell, Brandon, EMNRD; Kuehling, Monica, EMNRD
Subject:	RE: WDW-2 (UICI-011) - Fall-Off Test Extension Request (API# 30-045-28653

Kelly:

Re: Fall-Off Test Extension Request for On or Before April 30, 2019

Approved.

Please be aware of the 1 year non-injection period under <u>19.15.26 NMAC</u> (see applicable regulation below). OCD UIC Class I (Non-hazardous) Disposal Wells must meet all of the requirements of Class II Disposal Wells.

19.15.26.12 COMMENCEMENT, DISCONTINUANCE AND ABANDONMENT OF INJECTION OPERATIONS:

A. The following provisions apply to injection projects, storage projects, salt water disposal wells and special purpose injection wells.

B. Notice of commencement and discontinuance.

(1) Immediately upon the commencement of injection operations in a well, the operator shall notify the division of the date the operations began.

(2) Within 30 days after permanent cessation of gas or liquefied petroleum gas storage operations or within 30 days after discontinuance of injection operations into any other well, the operator shall notify the division of the date of the discontinuance and the reasons for the discontinuance.

(3) Before temporarily abandoning or plugging an injection well, the operator shall obtain approval from the appropriate division district office in the same manner as when temporarily abandoning or plugging oil and gas wells or dry holes. *C. Abandonment of injection operations.*

(1) Whenever there is a continuous one year period of non-injection into all wells in an injection or storage project or into a salt water disposal well or special purpose injection well, the division shall consider the project or well abandoned, and the authority for injection shall automatically terminate ipso facto.

(2) For good cause shown, the director may grant an administrative extension or extensions of injection authority as an exception to Paragraph (1) of Subsection C of 19.15.26.12 NMAC, provided that any such extension may be granted only prior to the end of one year or continuous non-injection, or during the term of a previously granted extension. [19.15.26.12 NMAC, 12/1/08]

Please contact me if you have questions. Thank you.

Mr. Carl J. Chavez, CHMM (#13099) New Mexico Oil Conservation Division Energy Minerals and Natural Resources Department 1220 South St Francis Drive Santa Fe, New Mexico 87505 Ph. (505) 476-3490 E-mail: CarlJ.Chavez@state.nm.us

"Why not prevent pollution, minimize waste to reduce operating costs, reuse or recycle, and move forward with the rest of the Nation?" (To see how, go to: <u>http://www.emnrd.state.nm.us/OCD</u> and see "Publications")

From: Robinson, Kelly <Kelly.Robinson@andeavor.com>
Sent: Friday, September 28, 2018 12:04 PM
To: Chavez, Carl J, EMNRD <CarlJ.Chavez@state.nm.us>
Subject: [EXT] WDW-2 (UICI-011) - Fall-Off Test Extension Request

Good Morning Sir!

Thank you so much for taking the time to talk with me earlier today. As we discussed earlier, Western Refining Southwest, Inc. – Bloomfield Terminal ("Western") is requesting the New Mexico Oil Conservation Division's approval to extend the deadline to conduct the 2018 Fall-Off Test on the facility Waste Disposal Well No. 2 (UICI-011). The annual test is required pursuant to WDW-2 Permit Condition 3.E.

Due to the lack of precipitation and lower volume of wastewater effluent produced by the Bloomfield Terminal operations in 2018, the Terminal has not operated the injection well for a continuous period of over 24-hours since May 2018. As of August 2018, the facility's wastewater treatment system is producing on average approximately 15 gallon per minute of treated wastewaters. These waters are pumped to the on-site evaporation ponds prior to being injected into the on-site Class I Injection Well. Due to lack of precipitation in the Four Corners Area and the higher consistent summer temperatures, the rate of evaporation at the evaporation ponds has exceeded the rate of wastewater production. As such, currently we have evaporated all the waters previously stored in the north evaporation pond, and we currently are storing approximately less than 6-inches of water in the south evaporation pond. The level in the evaporation pond continues to lower due to the continued higher temperatures resulting in continued higher natural evaporation rates.

At this time, Western has <u>no interest</u> to pursue closure and/or abandonment of the well. The request for extending the Fall-Off Testing is to allow for sufficient waters to collect in the evaporation pond during the cooler months of the year so that the well can be operated continuously for a period of time before the Fall-Off pressures are recorded for testing. At this time, Western is requesting permission to conduct the test prior to April 2019. The respective Sundry notifications will be submitted to NMOCD for approval prior to testing so as to provide NMOCD the opportunity to witness the testing activities.

I very much appreciate your time and consideration of this request. If you have any questions or would like additional information for justification, please do not hesitate to contact me at your convenience.

Sincerely,

Kelly R. Robinson - Environmental Supervisor

111 County Road 4990 **l** Bloomfield, NM 87413 O: (505) 632-4166| C: (505) 801-5616 E: <u>Kelly.Robinson@andeavor.com</u>



Please note: My email address changed to Kelly.Robinson@andeavor.com on July 31, 2017. Please update your records.

Date: Revised Jaly 18, 201 2010 Comparison of the set of th	Submit I Copy To Appropriate District	State of New M	lexico	Form C-103
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Type or print name John Thompson E-mail address: john@walsheng.net PHONE: 505-320-1748 For State Use Only APPROVED BY: Carl J. Manager TITLE Environmental Engineer DATE 4/24/2017 Conditions of Approval (if any):	SIGNATURE COLC	THTLE E	ingineer/Agent	DATE4/7/2017
APPROVED BY: Carl J. Chang TITLE Environmental Engineer DATE 4/24/2017 Conditions of Approval (if any):	Type or print name <u>John Th</u> For State Use Only	ompson E-mail address: jo	hn@walsheng.net	PHONE: <u>505-320-1748</u>
	APPROVED BY: Carl J.	Ching TITLE En	vironmental a	Engineer DATE 4/24/2017

Western Refining Southwest, Inc. (UICI-011) UIC Class I (Non-hazardous) Injection Well WDW-2 (API #: 30-045-35747)

C-103 "Fracture Stimulate Entrada" OCD Santa Fe and Aztec District Conditions of Approval (4/26/2017)

1) The operator shall submit a "Net Pressure Plot" from fracture stimulation within 30-days of well work completion. The plot shall verify that any or all fracturing occurred within the Entrada Formation.

2) The Oil and Gas Act applies to all UIC Class II operations on all lands within the state of New Mexico including federal lands. OCD Rule 19.15.16 NMAC was amended pursuant to the Oil and Gas Act and hydraulic fracturing fluid disclosure form requirements became effective February 12, 2012. 19.15.16.19(A) NMAC requires that "within 20 days after the completion of a well drilled under oil or gas laws, or the recompletion of a well into a different common source of supply, the operator shall file a completion report with the division . . .[disclosing] whether the well has been hydraulically fractured." Rule 19.15.16.19(B) NMAC requires that "for a hydraulically fractured well, the operator shall also complete and file the OCD's hydraulic fracturing disclosure form within 45 days after completion of the well." Disclosure on FracFocus is not a substitute for the Rule 19.15.16.19 NMAC disclosure requirements. Operators who have not complied with Rule 19.15.16 NMAC disclosure requirements and do not submit the OCD's hydraulic fracturing disclosure form will be considered in violation of 19.15.16 NMAC and the Oil and Gas Act.

3) The operator shall comply with the applicable provisions of the OCD approved Discharge Permit, i.e., MITs after well workovers.

Please be advised that OCD approval does not relieve Western Refining Southwest, Inc. from responsibility should its operations pose a threat or impact to groundwater, human health or the environment. In such event, OCD may order the operator to plug and abandon its well pursuant to the Water Quality Control Commission Regulations. In addition, OCD approval does not relieve Western Refining Southwest, Inc. of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Western Refining, Southwest - WDW #2

2028' fnl & 111' fse SECTION 27,T29N, R11W SAN JUAN COUNTY, NEW MEXICO API #: 30-045-35747

ENTRADA STIMULATION POCEDURE

See WBD for wellbore information

- 1. All personal must check in at Western office prior to entering location.
- 2. Spot 8 ea. 400 bbl frac tanks and fill with 2% KCl water (may use water from refinery if chemical tests show that water is compatible with Halliburton Delta 200 system).
- 3. RU slick line company and RIH w/ 2.81" blanking plug and set in XN Profile Nipple in Weatherford packer that is set at 7230' KB.
- 4. MOL & RU service rig. ND WH & NU BOPE. Set pipe racks for laying down/picking up casing.
- TOH, laying down 4-1/2" IPC casing string and seal assembly.
- 6. Install seal assembly with 3-1/2" change over. PU and RIH w/ 3-1/2" casing
- 7. Space out & land in WH with tubing hanger. NU WH & 10K frac valve.
- 8. RD rig & related equipment & MOL. Have slick line pull blanking plug from packer. SD operations until frac crew is available.
- 9. RU Halliburton Frac crew. PT pumps & lines to 9000 psi. Note: Max STP for job is 8100 psi
- 10. Note: Refer to Halliburton Procedure for Frac Details. Frac Entrada with 246,000# 20/40 Premium White sand In 107,900 gal of 23# X-linked gel water@ 50 BPM. Bottom hole pressure to be monitored by computer van. All sand to be tagged w/ 0.40 mci/1000# Ir-192 tracer. Anticipated surface pressure= 2350 psi. Max pressure = 3500 psi. Frac using the following schedule:

STAGE	Clean Volume (GALS.)	Sand (lbs)
Pad	20,000	
1.0 ppg	19,500	19,500
2.0 ppg	18,500	37,000
3.0 ppg	17,500	52,500
4.0 ppg	25,000	100,000
5.0 ppg	7400	37,000
Flush	<u>3121</u>	
Totals	111,021	246,000#

- Make all sand is displaced below packer. RD & Release frac crew. Consolidate frac water and release frac tanks. RU slick line & RIH w/ 2.81" blanking plug and set in XN profile nipple in packer.
- 12. MOL & RU. Remove frac valve & NU WH & BOPE. Set pipe racks for laying down/picking up casing.

- 13. Lay down 3-1/2" frac string & haul back to Cave Tubulars.
- 14. RIH w/ seal assembly and 4-1/2" IPC casing. Circulate "packer fluid" and land in packer/wellhead as before. Pressure up one 4-1/2" & 7" annulus to 500 psi and make sure it holds and will pass MIT test.
- 15. RU slickline & RIH. Retrieve blanking plug from profile nipple in packer.
- 16. Monitor well for pressure, which will determine if flowback will be necessary or clean operations can begin.
- 17. After flowback, PU 2-3/8" work string w/ 1-1/4" tail pipe to clean through and below 7" packer.
- Reverse out down to PBTD (7476'). Once, sand inflows have diminished TOH, laying down 2-3/8" work string and tailpipe.
- 19. Set blanking plug in packer w/ slick line (if necessary). ND BOP & related equipment. NU WH and manifold flowlines back in place.
- 20. Remove blanking plug from packer. Return well to injection status. Schedule MIT w/ NMOCD.

John Thompson Engineer Walsh Engineering & Production Corp.



Note: 7" packer f 7458'-7476', fill f 7476'-7490'

Western Refinery SWD #2

Production

HALLIBURTON

