UIC-I-8-1

EPA FALL-OFF TEST

2019



May 15, 2019

Mr. Carl Chavez, CHMM
NM Energy, Minerals & Natural Resources Department
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr.
Santa Fe, NM 87505-5472

RE: 2019 Pressure Fall Off Testing for Wells WDW-1, WDW-2 and WDW-3, HollyFrontier Navajo Refining LLC

Dear Mr. Chavez,

Enclosed, please find the C-103's for the Pressure Fall Off Testing schedule for 2019. This schedule is a notification upon approval and equipment availability to perform WDW-1, WDW-2 and WDW-3. As is the case for testing, I will notify you and the OCD Office in Artesia of actual dates and times. As per our letter request for WDW-4 dated 4/16/2019, WDW-4 will be tested June, 2020. If there are any questions, please contact Randy Dade at 575-746-5281.

Respectfully,

Lewis R. Dade

Environmental Specialist

HollyFrontier Navajo Refining LLC

Electronic cc:

S Denton, R Combs

Env. File:

Env./ Injection Wells / Pressure Fall Off Tests / 2019



April 16, 2019

Mr. Carl Chavez, CHMM
NM Energy, Minerals & Natural Resources Department
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr.
Santa Fe, NM 87505-5472

RE: 2019 Fall Off Testing for Wells WDW-1, WDW-2, WDW-3 and WDW-4 HollyFrontier Navajo Refining LLC

Dear Mr. Chavez,

As per our conversation on March 26, 2019 concerning Pressure Fall Off Testing (FOT) of Navajo's UIC program injection wells. Navajo is proposing performing FOT on wells WDW-1, WDW-2 and WDW-3 for the 2019 period and adding well WDW-4 starting in 2020.

WDW-4, (30-015-44677) had the initial FOT performed in October 2018. The test was performed on the newly drilled open hole formation with an injection rate of 420 gpm of 8.9 ppg fluid for approximately 9 hours. The well was shut in and the pressure falloff was monitored for 24 hours. This data gathered during this test showed that WDW-4 would exceed the initial reservoir modeling resulting in lower injection pressures and have a smaller cone of influence and lower pressure buildup as originally calculated in the original permit. WDW-4 was put into service on January 16, 2019 and has been in continual service since that date.

Please find enclosed the initial FOT for WDW-4 (UICI-8-4) and C-115's for all four wells for January, February and March 2019. WDW-4 has injected a total of 710,571 barrels through March 31st, 2019 with a monthly average of 236,857 barrels per month. The injection pressure is averaging 62.7 psig. Navajo requests that the 2020 Fall Off Tests occur in the second and third quarters of 2020 to have all four wells on the same testing schedule. This will allow for collection of 18 months of injection data for WDW-4. WDW-4 has been performing to our expectations and Navajo feels that there is little to no benefit in performing a FOT on WDW-4 with less than one full year of quality data.

If there are any questions, please contact Scott Denton at 575-746-5487.

Respectfully,

Scott M. Denton

Environmental Manager

HollyFrontier Navajo Refining LLC

Submit 1 Copy To Appropriate District Office	State of New Mexico		Form C-103
District I - (575) 393-6161	Energy, Minerals and Natural Resources		Revised July 18, 2013
1625 N. French Dr., Hobbs, NM 88240	OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505		WELL API NO.
<u>District II</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210			30-015-27592 5. Indicate Type of Lease
District III - (505) 334-6178			STATE STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410 District IV – (505) 476-3460			6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505			B-2071-28
4	ICES AND REPORTS ON WELL	S	7. Lease Name or Unit Agreement Name
(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.)			
			MEWBOURNE WDW-1
1. Type of Well: Oil Well Gas Well Other: INJECTION WELL			8. Well Number: WDW-1
2. Name of Operator			. OGRID Number : 15694
HOLLYFRONTIER NAVAJO REFINERY LLC			
3. Address of Operator			10. Pool name or Wildcat NAVAJO PERMO-PENN 96918
	P.O. BOX 159, ARTESIA, NM. 88210		
4. Well Location			
	from the SOUTH line and 22	The second secon	
Section: 31 Township		NMPM	County: EDDY
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3678' GL			c.)
	3078 GL		
12 Charle	Ammondiate Dev to Indiants 1	Jatura of Matina	Demont on Other Date
12. Check A	Appropriate Box to Indicate N	valure of Notice	e, Report of Other Data
NOTICE OF IN	ITENTION TO:	SUE	BSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WO	
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DE	RILLING OPNS. P AND A
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMEN	NT JOB
DOWNHOLE COMMINGLE			
CLOSED-LOOP SYSTEM			
OTHER: PRESSURE FALL OFF		OTHER:	
	ork). SEE RULE 19.15.7.14 NMA		nd give pertinent dates, including estimated date ompletions: Attach wellbore diagram of
JUNE, 2019; Day 1; Install bottomh		DW-1 . Continue Ir	njection into all four (4) wells.
JUNE, 2019: Day 2; Continue norm			
			nd WDW-4. A constant injection rate will be
			period. Wellhead pressure will not exceed 1400
			ells to confirm that a constant pre-falloff s and analyzed for ph and specific gravity.
			-3 and WDW-4 will continue constant injection
rates of 160 gpm.	o saut in tot a so hour randar perso	d. 112 11 2, 112 11	Julio 11211 1 1111 John Julio John Miles
JUNE, 2019: Day 5: MEWBOURN	E WDW-1 will continue to be shut	in while monitorin	g falloff pressure.
			ag bottom of fill and come out of hole very
	ops every 1000 feet (7000 ft, 6000	ft, 5000 ft, 4000 ft	t, 3000 ft, 2000 ft, 1000 ft, surface). Well turned
back over to Navajo.			
		4	
Sd Dt	Die Pelesse T		
Spud Date:	Rig Release D	vate:	
T1 1 10 d 11 1 C 11	1 1 1 1 1 1 1 1 1		11.17.6
I hereby certify that the information	above is true and complete to the t	best of my knowled	ige and belief.
Pon	1		
SIGNATURE CULT LLC	TITLE Env St	pec. DATE: 5	5/15/2019
400,000	TILDE, DAY, 5	Dill.	TO A VI DAY A V
Type or print name: L.R.Dade	E-mail address: Lewis.Dade@holl	yfrontier.com	PHONE:575-746-5281
For State Use Only	9		
0			
APPROVED BY:	TITLE En	vivonmental &	Inginer DATE 5/17/19
Conditions of Approval (if any):			