Submit 1 Copy To Appropriate District 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

RECEIVED
JUN 11 2019
DISTRICT II-ARTESIA O.C.D.

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. 30-015-27592	
5. Indicate Type of Lease STATE ☒ FEE ☐	
6. State Oil & Gas Lease No. B-2071-28	
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.)	7. Lease Name or Unit Agreement Name MEWBOURNE WDW-1
1. Type of Well: Oil Well ☐ Gas Well ☒ Other: INJECTION WELL	8. Well Number: WDW-1
2. Name of Operator HOLLYFRONTIER NAVAJO REFINERY LLC	. OGRID Number : 15694
3. Address of Operator P.O. BOX 159, ARTESIA, NM. 88210	10. Pool name or Wildcat NAVAJO PERMO-PENN 96918
4. Well Location Unit Letter_O__660_feet from the _SOUTH_ line and __2210_feet from the EAST _line Section: 31 Township: 17S Range: 28E NMPM County: EDDY	
	11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 3678' GL

12. Check Appropriate 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.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER: PRESSURE FALL OFF 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.

JUNE, 2019; Day 1; Install bottomhole gauge into MEWBOURNE WDW-1 . Continue Injection into all four (4) wells.
JUNE, 2019: Day 2; Continue normal Injection into all four (4) wells.
JUNE, 2019: Day 3 : A constant Injection Rate will be established in WDW-2, WDW-3 and WDW-4. A constant injection rate will be established in the MEBOURNE WDW-1 at 160 gpm and continue for a 30 hour injection period. Wellhead pressure will not exceed 1400 psig. Plant personnel will record rate, volume, and pressure during this 30 hours for all wells to confirm that a constant pre-falloff injection rate is maintained. Samples of the injection fluid will be collected every 10 hours and analyzed for ph and specific gravity.
JUNE, 2019: Day 4: WDW-1 will be shut in for a 30-hour falloff period. WDW-2, WDW-3 and WDW-4 will continue constant injection rates of 160 gpm.
JUNE, 2019: Day 5: MEWBOURNE WDW-1 will continue to be shut in while monitoring falloff pressure.
JUNE, 2019: Day 6: Acquire downhole pressure gauge from MEWBOURNE WDW-1. Tag bottom of fill and come out of hole very slowly, making 7-minute gradient stops every 1000 feet (7000 ft, 6000 ft, 5000 ft, 4000 ft, 3000 ft, 2000 ft, 1000 ft, surface). Well turned back over to Navajo.

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 Lewis R Dade TITLE: Env. Spec. DATE: 5/15/2019

Type or print name: L.R.Dade E-mail address: Lewis.Dade@hollyfrontier.com PHONE:575-746-5281

For State Use Only

APPROVED BY: TITLE Environmental Engineer DATE 5/17/19
Conditions of Approval (if any):
Accepted for record - NMOCD
DS

WSP	PRESSURE FALLOFF TESTING WORK PLAN AND SCHEDULE HOLLY FRONTIER NAVAJO REFINING MEWBOURNE WELL No. 1 ARTESIA, NEW MEXICO	Project No. 192080 Date: 05/31/2019 Page: 1 of 2

INTRODUCTION

The following work plan has been developed to conduct the annual pressure falloff testing on Mewbourne Well No. 1. The results of the falloff testing will confirm the validity of the reservoir model in the well permit with respect to permeability-thickness.

Note: This procedure follows the guidance in the approved 2019 falloff test plan (Form C-103) submitted to the State of New Mexico, Energy, Minerals, and Natural Resources.

WORK PROGRAM

Thursday, June 13, 2019
WSP personnel to travel to Artesia, NM

Friday, June 14, 2019

1. Run memory-type bottom-hole pressure gauges into the Mewbourne Well No. 1 and set at the top of the perforations at 7924 feet below ground level.
2. Continue normal injection into all four wells for 48 hours.
3. WSP personnel to return to Houston, TX.

Saturday, June 15, 2019

1. Continue normal injection into all four wells.

Sunday, June 16, 2019

1. After 48 hours Navajo, will start constant injection into Chukka Well No. 2, Gaines Well No. 3, and WDW-4 at a rate of approximately 160 gallons per minute (gpm) and maintain this rate throughout the remainder of the pressure falloff test. Adjust the rates as necessary to not exceed the maximum permitted wellhead of 1400 psig.
2. Navajo will maintain a constant injection rate of approximately 160 gpm into the Mewbourne Well No. 1 for a minimum of 30 hours prior to shutting in the well. The 30 hours was the agreed upon time interval by the OCD and Navajo in previous falloff tests.
3. The rate should be held constant during the 30-hour injection period. This might be best accomplished by opening the pipe line and wellhead valves wide open allowing full flow to the well.
4. Navajo will record rate, volume, and pressure during the injection period for all three wells to confirm that a constant pre-falloff injection rate is maintained.
5. Navajo will collect a grab sample of the injection fluid every 10 hours and analyze the fluid for pH and specific gravity.

Monday, June 17, 2019

1. After a minimum of 30 hours of constant injection, Navajo will shut in Mewbourne Well No. 1 for the 30-hour falloff period. Navajo will isolate the Mewbourne Well No. 1 wellhead at the wing valve, MOV, and at the main pipeline valve. Chukka Well No. 2, Gaines Well No. 3, and WDW-4 will continue injecting at a constant rate that will not cause the wellhead pressure to exceed 1400 psig.

Tuesday, June 18, 2019

1. Leave Mewbourne Well No. 1 shut in and continue to monitor falloff pressure. Chukka Well No. 2, Gaines Well No. 3, and WDW-4 will continue injecting at a constant rate that will not cause the wellhead pressure to exceed 1400 psig.
2. WSP personnel to return to Artesia, NM.

Wednesday, June 19, 2019

1. After a minimum of 30 hours, tag the top of fill and pull the pressure gauges out of the well making 5-minute gradient stops at 7000 feet, 6000 feet, 5000 feet, 4000 feet, 3000 feet, 2000 feet, 1000 feet, and at the surface.
2. Turn the Mewbourne Well No. 1, Chukka Well No. 2, Gaines Well No. 3 and WDW-4 over to Navajo personnel to resume normal injection operations.
3. WSP personnel to return to Houston, TX.

Mewbourne Well No. 1

06/14/19 10:00	Run the memory gauges into Mewbourne Well No. 1 and set at 7924 feet below ground level. Continue normal injection into all four wells.
06/16/19 10:00	Set the rate at approximately 160 gpm into all four wells and hold constant for 30 hours. Adjust the rates as necessary to maintain a surface injection pressure below 1400 psig while holding a constant injection rate.
06/17/19 16:00	End the 30-hour injection period and shut in the Mewbourne Well No. 1. Continue constant injection into the Chukka Well No. 2, Gaines Well No. 3 and WDW-4 without exceeding the 1400 psig limit.
06/18/19 22:00	End 30-hour falloff period, tag bottom, and make 5-minute gradient stops at 1000-foot intervals while pulling the gauges out of the well. Rig down and return all wells to Navajo personnel to resume normal injection operations.

NOTE: the times are approximate and will be adjusted according to actual field operations.