

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

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised August 1, 2011

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

WELL API NO. 30-015-26575
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. NM-0557371
7. Lease Name or Unit Agreement Name Gaines WDW-3
8. Well Number WDW-3
9. OGRID Number 15694
10. Pool name or Wildcat: Navajo Permo-Penn
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3609' GL, ' RKB

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.)

1. Type of Well: Oil Well ☐ Gas Well ☐ Other **Injection Well**

2. Name of Operator

Navajo Refining Company

3. Address of Operator

Post Office Box 159, Artesia, New Mexico 88211

4. Well Location

Unit Letter **N** : **790** feet from the **South** line and **2250** feet from the **West** line

Section **01** Township **18S** Range **27E** NMPM County **Eddy**

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3609' GL, ' RKB

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: **PERFORM PRESSURE FALLOFF 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.

July 14, 2014 - Install bottomhole gauges into WDW-1, WDW-2, and WDW-3 by 12:00 pm. Continue injection into all three wells.

July 15, 2014 - Continue injection into all three wells.

July 16, 2014 - At 12:00 pm, the offset wells WDW-1 and WDW-2 will be shut-in. A constant injection rate of 160 GPM will be established for WDW-3 and continue for a 30 hour injection period. Do not exceed 1200 psig wellhead pressure.

July 17, 2014 - At 6:00pm, WDW-3 will be shut in for a 30-hour falloff period. WDW-1 and WDW-2 will remain shut-in.

July 18, 2014 - All three wells will continue to be shut in while monitoring falloff pressure in all three wells.

July 19, 2014 - At 8:00am, acquire downhole pressure gauges from all three wells. Tag bottom of fill and come out of hole very slowly, making 7-minute gradient stops while coming out of WDW-3 every 1000 feet (7000 ft, 6000 ft, 5000 ft, 4000 ft, 3000 ft, 2000 ft, 1000 ft, surface). Turn the wells back to Navajo personnel.

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 Timothy J. TITLE Project Engineer DATE 4-24-14
Type or print name _____ E-mail address: _____ PHONE: _____
For State Use Only

APPROVED BY: Carol J. Chivney TITLE Environmental Engineer DATE 4/25/14
Conditions of Approval (if any):

The Fall-off Test (FOT) shall comply with Section III
(Developing a Test Plan) of the "NM Oil Conservation Division
UIC Class I Well FOT Guidance" (December 3, 2007).



Procedure for Testing Well #3 (Gaines)

April 21, 2014

Sunday, July 13, 2014

Subsurface personnel to travel to Artesia, NM

Monday, July 14, 2014

1. Install bottom hole memory gauges in all three wells and continue normal injection for 48 hours. Gauges need to be in wells by 12:00 pm. Install surface pressure recorder on Gaines Well No. 3. Gauges to be set at the top of the perforations in all three wells as follows;

Mewbourne Well No. 1	7924 feet
Chukka Well No. 2	7570 feet
Gaines Well No. 3	7660 feet

Subsurface personnel will return to Houston.

Tuesday, July 15, 2014

Continue normal injection into the wells.

Wednesday, July 16, 2014

1. At 12:00 pm, Navajo personnel will shut-in offset wells, Chukka Well No. 2 and Mewbourne Well No. 1, start the 30-hour injection period for Gaines Well No. 3. The Chukka Well No. 2 and Mewbourne Well No. 1 will have to be isolated at the wing valve, MOV, and at the main pipeline valve.
2. Navajo Refining is to maintain a constant injection rate at approximately 160 GPM into the Gaines Well No. 3 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 the approved test plan.
3. The rate should be constant at 160 GPM 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. Record the rate and wellhead pressure in the control room on a minimum of 15 second intervals during the injection period. Do not exceed 1200 psig wellhead pressure.
4. Plant personnel will record rate, volume, and pressure during the injection period for all wells to confirm that a constant pre-falloff injection rate is maintained.
5. Collect a grab sample of the injection fluid every 10 hours; analyze the fluid for pH and Specific Gravity.



Thursday, July 17, 2014

6. Continue constant injection into Gaines Well No. 3. The offset wells Mewbourne and Chukka will remain shut-in.
7. At 6:00 pm, Navajo personnel will shut in Gaines Well No. 3 for the 30-hour falloff period. Chukka Well No. 2 and Mewbourne Well No. 1 will remain shut-in during the 30-hour falloff period. The Gaines No. 3 will need to be isolated at the wing valve, MOV, and at the main pipeline valve.

Friday, July 18, 2014

8. Continue to monitor pressure falloff in Gaines Well No. 3.

Saturday, July 19, 2014

9. At 8:00 am, acquire downhole pressure memory gauges from all three wells.
10. Tag bottom of fill and come out of hole very slowly (no faster than 30 feet per minute), making 7-minute gradient stops while coming out of Gaines Well No. 3 every 1000 feet (7000 feet, 6000 feet, 5000 feet, 4000 feet, 3000 feet, 2000 feet, 1000 feet, Surface).
11. Turn well over to Navajo personnel. Subsurface personnel to return to Houston, TX.