

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 July 18, 2013

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

WELL API NO. 30-015-27592
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B-2071-28
7. Lease Name or Unit Agreement Name Mewbourne WDW-1
8. Well Number: WDW - 1
9. OGRID Number: 15694
10. Pool name or Wildcat Navajo Permo- Penn 96918

**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  
Hollyfrontier Navajo Refining LLC

3. Address of Operator  
P.O.Box 159, Artesia, NM. 88210

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

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
3678' GL

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

<p><b>NOTICE OF INTENTION TO:</b></p> <p>PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/></p> <p>TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/></p> <p>PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/></p> <p>DOWNHOLE COMMINGLE <input type="checkbox"/></p> <p>CLOSED-LOOP SYSTEM <input type="checkbox"/></p> <p>OTHER: CONDUCT PRESSURE FALLOFF TEST <input type="checkbox"/></p>	<p><b>SUBSEQUENT REPORT OF:</b></p> <p>REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/></p> <p>COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/></p> <p>CASING/CEMENT JOB <input type="checkbox"/></p> <p>OTHER: <input type="checkbox"/></p>
---	--

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 16, 2017 - Install bottomhole gauges into WDW-1, WDW-2, and WDW-3. Continue injection into all three (3) wells.  
 JUNE 17, 2017 - Continue injection into all three wells.  
 JUNE 18, 2017 - Offset wells WDW-2 and WDW-3 will be shut -in. A constant injection rate will be established for WDW-1 at 160 GPM and continue for a 30 - hour injection period. Do not exceed 1400 psig wellhead pressure.  
 JUNE 19, 2017 - WDW-1 will be shut in for a 30-hour falloff period. WDW-2 and WDW-3 will remain shut-in.  
 JUNE 20, 2017 - All three wells will continue to be shut in while monitoring falloff pressures in all three wells.  
 JUNE 21, 2017 - 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-1 every 1000 feet; (7000 ft, 6000 ft, 5000 ft, 4000 ft, 3000 ft, 2000 ft, 1000 ft, surface). Turn wells back over to Navajo personnel.

NOTES :

- (1) All Bottomhole gauges will be Calibrated
- (2) Pump rates and Injection pressures will be noted before pump shutdown.
- (3) OCD Falloff Test Guidelines for reporting results will be followed.
- (4) OCD District II, Artesia, will be notified to witness pump shut-off and pressure changes at start of Falloff Test.

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: Environmental Spec. DATE 6/12/2017  
 Type or print name: Lewis R. Dade E-mail address: Lewis.Dade@hollyfrontier.com PHONE: 575-746-5281

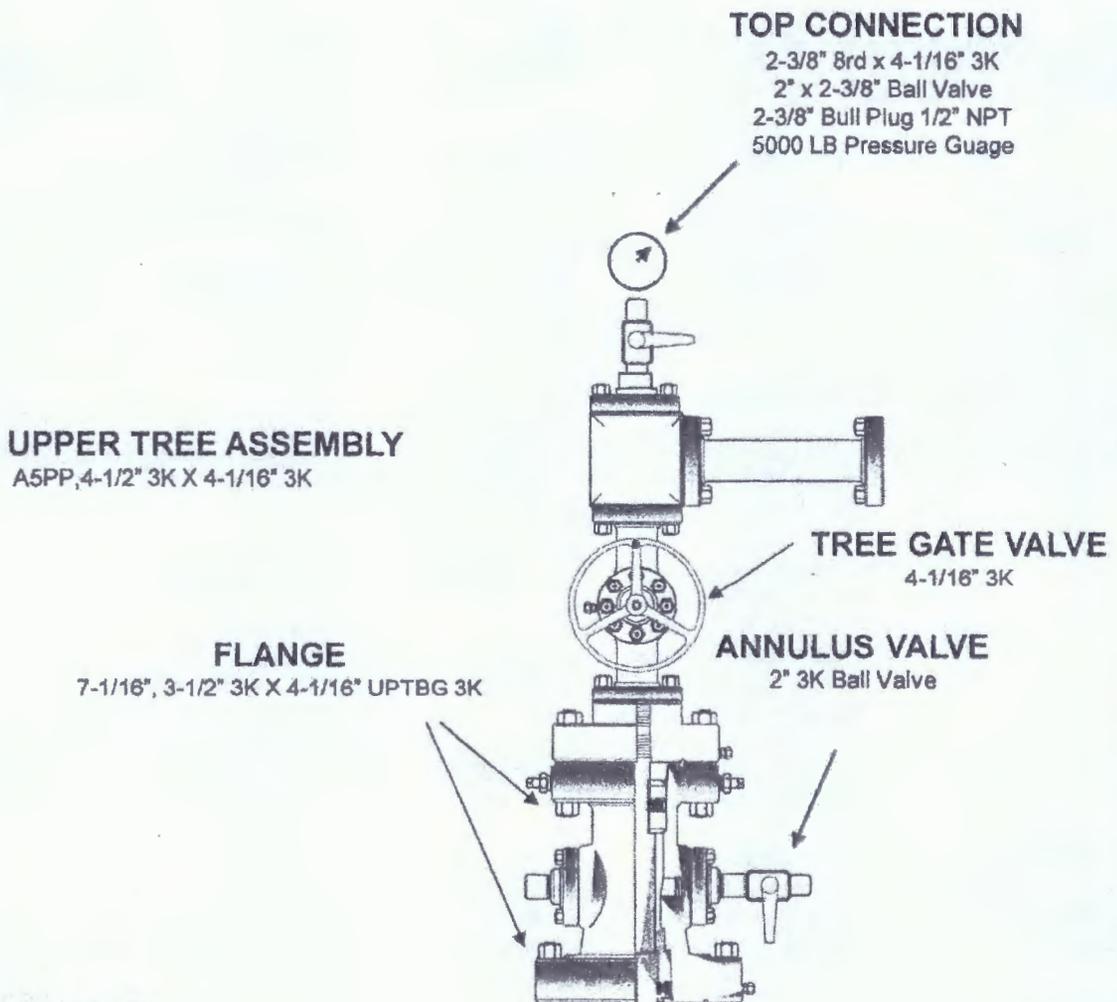
**For State Use Only**

APPROVED BY: Carl J. Chavez TITLE Environmental Engineer DATE 6/15/17

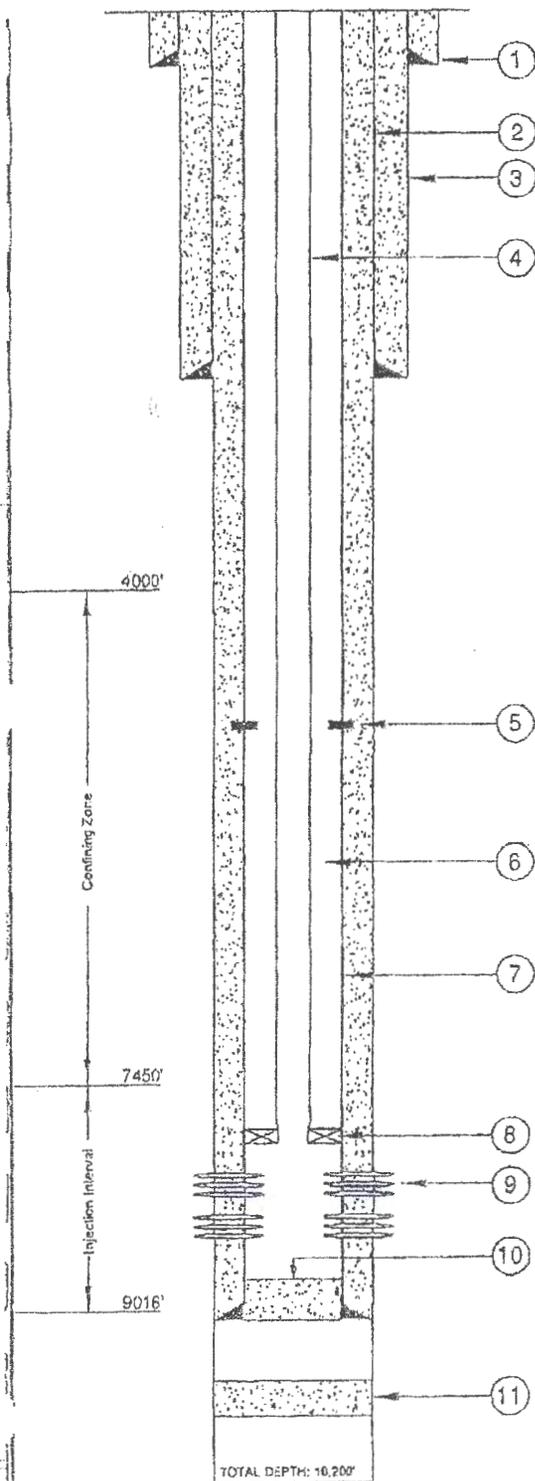
SUBSURFACE TECHNOLOGY

FIGURE 7

WELL: NAVAJO REFINING MEWBOURNE WELL NO. 1



## BELOW GROUND DETAILS



All depths are referenced to the Kelly bushing elevation of 12.5' above ground level. Ground level elevation is 3,878' above mean sea level.

1. **Surface Casing:** 13 3/8", 48 lb/ft, J-55, ST&C set at 390' in a 17 1/2" hole. Cemented with 150 sx Class C with 3 % calcium chloride, 375 sx Class C Lite w/3 % calcium chloride and 1/2 lb/sx floccs. Circulated 86 sx to surface.
2. **Intermediate Casing:** 9 5/8", 36 lb/ft, J-55, ST&C set at 2,555' in a 12 1/4" hole. Cemented w/800 sx of Class C Lite w/ 1/2 lb/sx floccs and 2 lb/sx Gilsomite and 12 % salt. Followed by 200 sx of Class C w/2 % calcium chloride. Circulated 133 sx to surface.
3. **Base of the USDW** at 493'.
4. **Injection Tubing:** 4 1/2", 11.6 lb/ft, N-80, SMLS, R3, LT&C set at 7,879'.
5. **DV Tool:** at 5,498'.
6. **Annulus Fluid:** 8.7 lb/gal brine water mixed w/UniChem Techni-Hib 370 corrosion inhibitor.
7. **Protection Casing:** 7", 29 lb/ft, N-80, LT&C: 9094' to 7031'. 7", 29 lb/ft, P-110, LT&C: 7031' to 5845'. 7", 26 lb/ft, P-110, LT&C: 5845' to surface. Casing cemented in two stages as follows:  
  
 First Stage - 600 sx modified Class H w/0.4 % CFR-3, 5 lb/sx Gilsomite, 0.5 % Halad-344, and 1 lb/sx salt mixed at 13.0 ppg. Opened DV tool at 5498' and circulated 142 sx to surface.  
  
 Second Stage - Lead Slurry: 220 sx Interfill "C" (35:65:6) mixed at 11.7 ppg. Tail Slurry: 560 sx modified Class H w/0.4 % CFR-3, 5 lb/sx, Gilsomite, 0.5 % Halad-344, 0.1 % HR-7, and 1 lb/sx mixed at 13.0 ppg. Circulated 75 sx to surface. Top out w/20 sx premium plus 3 % calcium chloride.
8. **Packer:** 7" x 3.5" EVI Oil Tools (Arrow), Model X-1 retrievable packer set at 7679'. Minimum I.D. is 3.0". Wireline re-entry guide on bottom. To release: turn 1/4 turn to the right and pick up.
9. **Perforations (2 SPF):**  
  
 Upper Zone - 7924-7942', 7974-8030', 8050-8056', 8066-8080', 8118-8127', 8132-8140', 8160-8164', 8170-8188'.  
  
 Lower Zone - 8220-8254', 8260-8270', 8280-8302', 8360-8366', 8370-8378', 8400-8410', 8419-8423', 8430-8446', 8480-8464', 8470-8476'.
10. **PBTD:** 9004'.
11. **Cement Plug:** 45 sx Class H from 9624' to 9734'.

<b>SUBSURFACE</b>		HOUSTON, TX. SOUTH BEND, IN. BATON ROUGE, LA.
NAVAJO REFINING COMPANY ARTESIA, NEW MEXICO		
<b>BELOW GROUND DETAILS WASTE DISPOSAL WELL NO. 1</b>		
DATE: 07/13/01	CHECKED BY:	JOB NO: 70D5256
DRAWN BY: WDL	APPROVED BY:	DWG. NO:

FIGURE 1