

**UIC - 1 - \_008-1\_**

**PERMITS,  
RENEWALS,  
& MODS (WDW-2)**

**2009**



# REFINING COMPANY, LLC

FAX

(575) 746-5283 DIV. ORDERS  
(575) 746-5481 TRUCKING  
(575) 746-5458 PERSONNEL

RECEIVED

2009 OCT 22 PM 12 03

501 EAST MAIN STREET • P. O. BOX 159  
ARTESIA, NEW MEXICO 88211-0159  
TELEPHONE (575) 748-3311

FAX

(575) 746-5419 ACCOUNTING  
(575) 746-5451 ENV/PURCH/MKTG  
(575) 746-5421 ENGINEERING

October 6, 2009

Carl J. Chavez, CHMM  
New Mexico Energy, Minerals & Natural Resources Dept.  
Oil Conservation Division, Environmental Bureau  
1220 South St. Francis Dr.,  
Santa Fe, New Mexico 87505

RE: Discharge Permits UIC-CLI-008 and UIC-CLI-008-1

Carl,

Enclosed, please find a check in the amount of \$9,000 to cover the permit fees for the above mentioned discharge permits. Also, enclosed are the signed copies of the permits for your files. If there are any questions concerning this submission, please call me at 575-746-5281.

Sincerely,  
NAVAJO REFINING COMPANY, LLC

Darrell Moore  
Environmental manager for Water and Waste

Encl:

*File: Injection Well Discharge Permits 4A02*

NAVAJO REFINING COMPANY LLC  
 100 Crescent Court, Suite 1600  
 Dallas TX 75201-6927

WATER QUALITY MANAGEMENT FUND  
 OIL CONSERVATION DIVISION  
 1220 S SAINT FRANCIS DR  
 SANTA FE NM 87505-4000

Check Date 09/29/2009  
 Check Amount \$ 9,000.00  
 Vendor No 5111809  
 Payment Document 2000057040  
 Company Code 1020

Invoice Date	Invoice Number	Description	Invoice Amount	Discount Amount	Net Amount
09/25/2009	092509	INJECTION WELL DISCHARGE PERMIT UIC	4,500.00	0.00	4,500.00
09/25/2009	092509A	INJECTION WELL DISCHARGE PERMIT UIC	4,500.00	0.00	4,500.00

Payment document	Check number	Date	Currency	Payment amount
2000057040	1000069284	09/29/2009	USD	*****9,000.00*

ACKNOWLEDGEMENT OF RECEIPT  
OF CHECK/CASH

I hereby acknowledge receipt of check No. 1000069284 dated 9/29/09  
or cash received on \_\_\_\_\_ in the amount of \$ 9000<sup>00</sup>

from NAVAJO Refining Co

for WDW-8-1

Submitted by: Lawrence Favello Date: 10/23/07

Submitted to ASD by: Kevin Roman Date: \_\_\_\_\_

Received in ASD by: \_\_\_\_\_ Date: \_\_\_\_\_

Filing Fee \_\_\_\_\_ New Facility \_\_\_\_\_ Renewal \_\_\_\_\_

Modification \_\_\_\_\_ Other \_\_\_\_\_

Organization Code 521.07 Applicable FY 2004

To be deposited in the Water Quality Management Fund.

Full Payment \_\_\_\_\_ or Annual Increment \_\_\_\_\_

VERIFY THE AUTHENTICITY OF THIS MULTI-TONE SECURITY DOCUMENT.

CHECK BACKGROUND AREA CHANGES COLOR GRADUALLY FROM TOP TO BOTTOM.

NAVAJO REFINING COMPANY LLC  
100 Crescent Court, Suite 1600  
Dallas TX 75201-6927

64-1278/611

1000069284

09/29/2009

PAY EXACTLY

\*\*\*\*\*9,000.00\*USD

VOID AFTER 180 DAYS

PAY \*\*\* NINE THOUSAND and 00 /100 USD\*\*\*

TO THE  
ORDER OF WATER QUALITY MANAGEMENT FUND  
OIL CONSERVATION DIVISION  
1220 S SAINT FRANCIS DR  
SANTA FE NM 87505-4000

*Stephen D Wise*

AUTHORIZED SIGNATURE

WDW-8

WDW-8-1



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Oil Conservation Division, Environmental Bureau  
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Santa Fe, New Mexico 87505

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NAVAJO REFINING COMPANY, LLC

Darrell Moore  
Environmental manager for Water and Waste

Encl:

*File: Injection Well Discharge Permits 4A02*

NAVAJO REFINING COMPANY LLC  
 100 Crescent Court, Suite 1600  
 Dallas TX 75201-6927

WATER QUALITY MANAGEMENT FUND  
 OIL CONSERVATION DIVISION  
 1220 S SAINT FRANCIS DR  
 SANTA FE NM 87505-4000

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↓ PLEASE FOLD ON PERFORATION AND DETACH HERE ↓

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 100 Crescent Court, Suite 1600  
 Dallas TX 75201-6927

64-1278/611

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09/29/2009

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\*\*\*\*\*9,000.00\*USD

VOID AFTER 180 DAYS

PAY \*\*\* NINE THOUSAND and 00 /100 USD\*\*\*

TO THE  
 ORDER OF WATER QUALITY MANAGEMENT FUND  
 OIL CONSERVATION DIVISION  
 1220 S SAINT FRANCIS DR  
 SANTA FE NM 87505-4000

*Stephen D Wise*  
 AUTHORIZED SIGNATURE

⑈ 1000069284⑈ ⑆ 061112788⑆ 3299053217⑈



# New Mexico Energy, Minerals and Natural Resources Department

**Bill Richardson**  
Governor

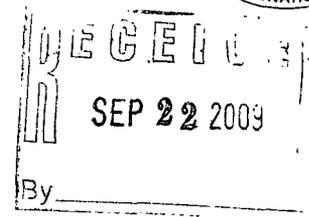
Joanna Prukop  
Cabinet Secretary

Mark Fesmire  
Division Director  
Oil Conservation Division



September 21, 2009

Mr. Darrell Moore  
Environmental Manager for Water and Waste  
Navajo Refining Company, L.L.C.  
501 East Main Street, P.O. Drawer 159  
Artesia, New Mexico 88211-0159



Re: **Approval of Class I Injection Well Discharge Permit UIC-CLI-008-1 (I-008-1)  
Class I Non-Hazardous Oil Field Waste Disposal Well  
WDW-2, API No. 30-015-20894  
1980 FNL and 660 FWL UL: E Section 12, T 18 S, R 27 E  
Eddy County, New Mexico**

Dear Mr. Moore:

Pursuant to the Water Quality Control Commission (WQCC) Regulations 20.6.2 NMAC and more specifically 20.6.2.3104 - 20.6.2.3999 and 20.6.2.5000-.5299, the Oil Conservation Division (OCD) hereby authorizes Navajo Refining Company Class I WDW-2 Waste Disposal Well (API No. 30-015-20894) in Eddy County, New Mexico, under the conditions specified in the enclosed **Attachment To The Class I Injection Well Discharge Permit**.

Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within 30 working days of receipt of this letter-including permit fees.**

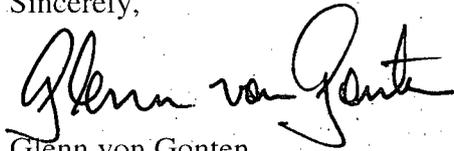
Please be advised that approval of this permit does not relieve the Navajo Refining Company of responsibility should operations result in pollution of surface water, ground water or the environment. Nor does approval of the permit relieve the Navajo Refining Company of its responsibility to comply with any other applicable governmental authority's rules and regulations.



Mr. Moore  
Navajo Refining Company  
September 21, 2009  
Page 2

If you have any questions, please contact Carl Chavez of my staff at (505-476-3490) or E-mail address: carlj.chavez@state.nm.us. On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge permit review.

Sincerely,



Glenn von Gonten  
Acting Environmental Bureau Chief

GvG/cc  
Attachments-1  
xc: OCD District Office

**ATTACHMENT TO THE DISCHARGE PERMIT**  
**Navajo Refining Company WDW-2 Class I Waste Disposal Well UIC-CLI-008-1 (I-008-1)**  
**DISCHARGE PERMIT APPROVAL CONDITIONS**

September 21, 2009

Please remit a check for \$4,500.00 made payable to Water Quality Management Fund:

**Water Quality Management Fund**  
**C/o: Oil Conservation Division**  
**1220 S. Saint Francis Drive**  
**Santa Fe, New Mexico 87505**

- 1. Payment of Discharge Plan Fees:** All discharge permits are subject to WQCC Regulations. Every billable facility that submits a discharge permit application will be assessed a filing fee of \$100.00, plus a renewal flat fee (*see* WQCC Regulation 20.6.2.3114 NMAC). The Oil Conservation Division ("OCD") has received the required \$100.00 filing fee and the Navajo Refining Company still owes the required \$4500.00 permit fee. The total fee amount due is \$4500 for the Class I Well.
- 2. Permit Expiration and Renewal Conditions and Penalties:** Pursuant to WQCC Regulation 20.6.2.3109.H.4 NMAC, this permit is valid for a period of five years. **The permit will expire on October 5, 2014** and an application for renewal should be submitted no later than 120 days before that expiration date. Pursuant to WQCC Regulation 20.6.2.3106.F NMAC, if a discharger submits a discharge permit renewal application at least 120 days before the discharge permit expires and is in compliance with the approved permit, then the existing discharge permit will not expire until the application for renewal has been approved or disapproved. *Expired permits are a violation of the Water Quality Act (Chapter 74, Article 6, NMSA 1978) and civil penalties may be assessed accordingly.*
- 3. Permit Terms and Conditions:** Pursuant to WQCC Regulation 20.6.2.3104 NMAC, when a permit has been issued, the Navajo Refining Company must ensure that all discharges shall be consistent with the terms and conditions of the permit. In addition, all facilities shall abide by the applicable rules and regulations administered by the OCD pursuant to the Oil and Gas Act, NMSA 1978, Sections 70-2-1 through 70-2-38. All injection operations related to oil and natural gas production in New Mexico are regulated under the provisions of the Oil and Gas Act, NMSA 1978, Sections 70-2-1 *et seq.* and the Water Quality Act, NMSA 1978, Sections 74-6-1 *et seq.* These Acts delegate authority for enforcement of their provisions relating to oil and natural gas drilling, production, processing, and transportation to the Oil Conservation Division (OCD) of the New Mexico Energy, Minerals and Natural Resources Department, and to the Oil Conservation Commission (OCC) and the Water Quality Control Commission (WQCC). To carry out its authority, the OCC has promulgated rules (19 NMAC) and numerous orders. Navajo Refining Company shall comply with WQCC Regulations 20.6.2 *et seq.* NMAC relating to Class I Waste Disposal Wells.

**4. Navajo Refining Company Commitments:** The Navajo Refining Company shall abide by all commitments submitted in its June 28, 2006 Application for Permit to Drill, Re-enter, Deepen, Plug back or Add a Zone API No. 30-015-26575" including subsequent attachments and amendments; letters and conditions herein for approval. Permit applications that reference previously approved plans on file with the division shall be incorporated in this permit and the Navajo Refining Company shall abide by all previous commitments of such plans and these conditions for approval.

**5. Modifications:** WQCC Regulation 20.6.2.3107.C, 20.6.2.3109 and 20.6.2.5101.I NMAC addresses possible future modifications of a permit. The Navajo Refining Company (discharger) shall notify the OCD of any facility expansion, production increase or process modification that would result in any significant modification in the discharge of water contaminants. The Division Director may require a permit modification if any water quality standard specified at 20.6.2.3103 NMAC is or will be exceeded, or if a toxic pollutants as defined in WQCC Regulation 20.6.2.7 NMAC is present in ground water at any place of withdrawal for present or reasonably foreseeable future use, or that the Water Quality Standards for Interstate and Intrastate streams as specified in 20.6.4 NMAC are being or may be violated in surface water in New Mexico.

**6. Waste Disposal and Storage:** Navajo Refining Company shall dispose of all other non-injected wastes at an OCD-approved facility. Only oil field RCRA-exempt wastes may be disposed of by injection in a Class I well. RCRA non-hazardous, exempt and non-exempt oil field wastes may be disposed of at an OCD-approved facility upon proper waste determination pursuant to 40 CFR Part 261. Any waste stream that is not listed in the discharge permit application must be approved by the OCD on a case-by-case basis.

**A. OCD Rule 712 Waste:** Pursuant to OCD Rule 712 (19.15.9.712 NMAC) disposal of certain non-domestic waste without notification to the OCD is allowed at NMED permitted solid waste facilities if the waste stream has been identified in the discharge permit and existing process knowledge of the waste stream does not change.

**B. Waste Storage:** The Navajo Refining Company shall store all waste in an impermeable bermed area, except waste generated during emergency response operations for up to 72 hours. All waste storage areas shall be identified in the discharge permit application. Any waste storage area not identified in the permit shall be approved on a case-by-case basis only. The Navajo Refining Company shall not store oil field waste on-site for more than 180 days unless approved by the OCD.

**7. Drum Storage:** The Navajo Refining Company must store all drums, including empty drums, containing materials other than fresh water on an impermeable pad with curbing. The Navajo Refining Company must store empty drums on their sides with the bungs in place and lined up on a horizontal plane. The Navajo Refining Company must store chemicals in other containers, such as tote tanks, sacks, or buckets on an impermeable pad with curbing.

**8. Process, Maintenance and Yard Areas:** The Navajo Refining Company shall either pave and curb or have some type of spill collection device incorporated into the design at all process, maintenance, and yard areas which show evidence that water contaminants from releases, leaks and spills have reached the ground surface.

**9. Above Ground Tanks:** The Navajo Refining Company shall ensure that all aboveground tanks have impermeable secondary containment (e.g., liners and berms), which will contain a volume of at least one-third greater than the total volume of the largest tank or all interconnected tanks. The Navajo Refining Company shall retrofit all existing tanks before discharge permit renewal. Tanks that contain fresh water or fluids that are gases at atmospheric temperature and pressure are exempt from this condition.

**10. Labeling:** The Navajo Refining Company shall clearly label all tanks, drums, and containers to identify their contents and other emergency notification information. The Navajo Refining Company may use a tank code numbering system, which is incorporated into their emergency response plans.

**11. Below-Grade Tanks/Sumps and Pits/Ponds.**

**A.** All below-grade tanks and sumps must be approved by the OCD prior to installation and must incorporate secondary containment with leak detection into the design. The Navajo Refining Company shall retrofit all existing systems without secondary containment and leak detection before discharge permit renewal. All existing below-grade tanks and sumps without secondary containment and leak detection must be tested annually or as specified herein. Systems that have secondary containment with leak detection shall have a monthly inspection of the leak detection system to determine if the primary containment is leaking. Small sumps or depressions in secondary containment systems used to facilitate fluid removal are exempt from these requirements if fluids are removed within 72 hours.

**B.** All pits and ponds, including modifications and retrofits, shall be designed by a certified registered professional engineer and approved by the OCD prior to installation. In general, all pits or ponds shall have approved hydrologic and geologic reports, location, foundation, liners, and secondary containment with leak detection, monitoring and closure plans. All pits or ponds shall be designed, constructed and operated so as to contain liquids and solids in a manner that will protect fresh water, public health, safety and the environment for the foreseeable future. The Navajo Refining Company shall retrofit all existing systems without secondary containment and leak detection before discharge permit renewal.

**C.** The Navajo Refining Company shall ensure that all exposed pits, including lined pits and open top tanks (8 feet in diameter or larger) shall be fenced, screened, netted, or otherwise rendered non-hazardous to wildlife, including migratory birds.

**D.** The Navajo Refining Company shall maintain the results of tests and inspections at the facility covered by this discharge permit and available for OCD inspection. The Navajo

Refining Company shall report the discovery of any system which is found to be leaking or has lost integrity to the OCD within 15 days. The Navajo Refining Company may propose various methods for testing such as pressure testing to 3 pounds per square inch greater than normal operating pressure and/or visual inspection of cleaned tanks and/or sumps, or other OCD-approved methods. The Navajo Refining Company shall notify the OCD at least 72 hours prior to all testing.

**12. Underground Process/Wastewater Lines:**

**A.** The Navajo Refining Company shall test all underground process/wastewater pipelines at least once every five (5) years to demonstrate their mechanical integrity, except lines containing fresh water or fluids that are gases at atmospheric temperature and pressure. Pressure rated pipe shall be tested by pressuring up to one and one-half times the normal operating pressure, if possible, or for atmospheric drain systems, to 3 pounds per square inch greater than normal operating pressure, and pressure held for a minimum of 30 minutes with no more than a 1% loss/gain in pressure. The Navajo Refining Company may use other methods for testing if approved by the OCD.

**B.** Navajo Refining Company shall maintain underground process and wastewater pipeline schematic diagrams or plans showing all drains, vents, risers, valves, underground piping, pipe type, rating, size, and approximate location. All new underground piping must be approved by the OCD prior to installation. The Navajo Refining Company shall report any leaks or loss of integrity to the OCD within 15 days of discovery.

Navajo Refining Company shall maintain the results of all tests at the facility covered by this discharge permit and they shall be available for OCD inspection. The Navajo Refining Company shall notify the OCD at least 72 hours prior to all testing.

**13. Class V Wells:** The Navajo Refining Company shall close all Class V wells (e.g., septic systems, leach fields, dry wells, etc.) that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes unless it can be demonstrated that ground water will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD-regulated facilities that inject non-hazardous fluid into or above an underground source of drinking water are considered Class V Waste Disposal Wells under the EPA UIC program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department (NMED).

**14. Housekeeping:** The Navajo Refining Company shall inspect all systems designed for spill collection/prevention and leak detection at least monthly to ensure proper operation and to prevent over topping or system failure. All spill collection and/or secondary containment devices shall be emptied of fluids within 72 hours of discovery. The Navajo Refining Company shall maintain all records at the facility and available for OCD inspection.

**15. Spill Reporting:** The Navajo Refining Company shall report all unauthorized discharges, spills, leaks and releases and conduct corrective action pursuant to WQCC Regulation

20.5.12.1203 NMAC and OCD Rule 116 (19.15.3.116 NMAC). The Navajo Refining Company shall notify both the OCD District Office and the Santa Fe Office within 24 hours and file a written report within 15 days.

**16. OCD Inspections:** The OCD may place additional requirements on the facility and modify the permit conditions based on well emergencies, OCD inspections, and/or quarterly reporting information.

**17. Storm Water:** The Navajo Refining Company shall implement and maintain run-on and runoff plans and controls. The Navajo Refining Company shall not discharge any water contaminant that exceeds the WQCC standards specified in 20.6.2.3101 NMAC or 20.6.4 NMAC (Water Quality Standards for Interstate and Intrastate Streams) including any oil sheen in any storm water run-off. The Navajo Refining Company shall notify the OCD within 24 hours of discovery of any releases and shall take immediate corrective action(s) to stop the discharge.

**18. Unauthorized Discharges:** The Navajo Refining Company shall not allow or cause water pollution, discharge or release of any water contaminant that exceeds the WQCC standards listed in 20.6.2.3101 NMAC or 20.6.4 NMAC (Water Quality Standards for Interstate and Intrastate Streams) unless specifically listed in the permit application approved herein.

**An unauthorized discharge is a violation of this permit.**

**19. Vadose Zone and Water Pollution:** The Navajo Refining Company shall address any contamination through the discharge permit process or pursuant to WQCC 20.6.2.4000-.4116 NMAC (Prevention and Abatement of Water Pollution). The OCD may require the Navajo Refining Company to modify its permit for investigation, remediation, abatement, and monitoring requirements for any vadose zone or water pollution. Failure to perform any required investigation, remediation, abatement and submit subsequent reports will be a violation of the permit.

**20. Additional Site Specific Conditions:** The Navajo Refining Company shall notify the OCD within 24 hours after having knowledge of ground water pollution complaints or well problems within a 1-mile radius of WDW-2.

- A. **Notification:** The Navajo Refining Company shall notify the OCD within 24 hours after having knowledge of ground water pollution complaints or well problems within a 1-mile radius of WDW-2.
- B. **Hydrogen Sulfide (H<sub>2</sub>S) Contingency Plan:** If concentrations of H<sub>2</sub>S at the facility may exceed 100 ppm as specified in 19.15.11.12 et seq. NMAC, a H<sub>2</sub>S Contingency Plan per 19.15.11.9 et seq. NMAC shall be submitted within 3 months of permit issuance.

**21. Class I Injection Well(s) Identification, Operation, Monitoring, Bonding and Reporting.**

- A. Well Identification: API # 30-015-20894
- B. Well Work Over Operations: OCD approval will be obtained prior to performing remedial work, pressure test or any other work. Approval will be requested on OCD Form C-103 "Sundry Notices and Reports on Wells" (OCD Rule 1103.A) with appropriate copies sent to the OCD Environmental Bureau and District Office.
- C. Injection Formation, Interval & Waste: Injected refinery exempt/non-exempt non-hazardous wastes will be injected into the Wolfcamp, Cisco and Canyon Formations at the interval 7,570 ft to 8,399 ft. Tubing shall be surrounded by surface casing set to a depth protective of fresh ground water (< 10,000 ppm TDS). The owner/operator shall take all steps necessary to ensure that the injected waste enters only the above specified injection interval and is not permitted to escape to other formations or onto the surface. The operator shall provide written notice of the date of commencement of injection to the Santa Fe Office of the Division.
- D. Well Injection Pressure Limits: The wellhead injection pressure on the well shall be limited to no more than 1,510 psig. In addition, the injection well or system shall be equipped with a pressure limiting device in workable condition, which shall, at all times, limit surface injection pressure to the maximum allowable pressure for this well. The maximum operating surface injection and/or test pressure measured at the wellhead shall not exceed 1,510 psig unless otherwise approved by the OCD. The pressure-limiting device shall monthly be demonstrated and reported quarterly to the OCD. Navajo Refining Company shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the ground surface. Any pressure that causes new fractures or propagation in existing fractures or causes damage to the system shall be reported to OCD within 24 hours of discovery.

The Director of the OCD may authorize an increase in injection pressure upon demonstration by the operator of said well that such higher pressure will not result in migration of the injected fluid from the injection formation. Such demonstration shall consist of a valid step-rate test run in accordance with and acceptable to the OCD.

E. Mechanical Integrity Testing (MIT):

The owner/operator shall complete an annual casing-tubing annulus pressure test from the surface to the approved injection depth and below the depth of fresh ground water (< 10,000 ppm TDS) to assess casing and tubing integrity. The MIT shall consist of a 30-minute test at a minimum pressure from 300 to 500 psig measured at the surface. A Bradenhead test(s) shall also be performed annually along with the

casing-tubing annulus test. A Bradenhead test(s) shall be performed in all annular spaces including surface casing if not cemented.

The owner/operator shall complete an annual pressure fall-off test to monitor the pressure buildup in the injection zone. The well shall be shut down for a period sufficient to conduct the test and shall be submitted to the OCD in the annual report (see Section 21K (11)). All well testing shall be performed annually or shall also be performed whenever the tubing is pulled or the packer reseated or when the injection formation will be isolated from the casing/tubing annuals. The operator shall notify the supervisor of the Santa Fe Office of the Division of the date, time and time of the installation of disposal equipment and of any MIT so that it may be inspected and witnessed.

**1. General Requirements:**

- a. If the testing requires a packer then casing-tubing annulus must be loaded with inert fluid 24 hours prior to testing.
- b. Have manpower and equipment available for pressure test. Wellhead shall be prepared for test and all valves and gauges should be in good working order.
- c. Pumps, tanks, external lines etc. must be isolated from the wellhead during test.
- d. A continuous recording pressure device with a maximum 4-hour clock shall be installed on the casing-tubing annulus. The pressure range shall not be greater than 500 psig. The operator must provide proof that the pressure-recording device has been calibrated within the past 6 months.
- e. A minimum of one pressure gauge shall be installed on the casing/tubing annulus.
- f. OCD must witness the beginning of test (putting chart on) and ending of test (removing chart). At the end of test, the operator may be required to bleed-off well pressure to demonstrate recorder and gauge response.
- g. The Operator shall supply the following information on the pressure chart that the inspector will file in the well records:
  1. Company Name, Well Name, API #, Legal Location.
  2. Test Procedure with "Pass/Fail" designation.
  3. Testing Media: Water, Gas, Oil, Etc.
  4. Date, time started and ending.

5. Name (printed) and signature of company representative and OCD Inspector

2. Test Acceptance:

The OCD will use the following criteria in determining if a well has passed the Mechanical Integrity Test:

- a. Passes if Zero Bleed-Off during the test.
- b. Passes if Final Test Pressure is within  $\pm 10\%$  of Starting Pressure, if approved by the OCD inspector.
- c. Fails if any Final Test Pressure is greater than  $\pm 10\%$  of Starting Pressure. Operators must investigate for leaks and demonstrate that mechanical integrity of the well(s) by ensuring there are no leaks in the tubing, casing, or packer, and injected/produced fluids are confined within the piping and/or injection zones. Wells shall not resume operations until approved by OCD.

Note: OCD recognizes that different operations, well designs, formation characteristics and field conditions may cause variations in the above procedures. If the operator wishes to make or discuss anticipate changes, please notify the OCD for approval. All operators are responsible to notify OCD of any procedure that may cause harm to the well system or formation. Please be advised that OCD approval does not relieve any operator of liability should operations result in pollution of surface water, groundwater, or the environment.

- d. When the MIT is not witnessed by an OCD Representative and fails, the owner/operator shall notify the OCD within 24 hours after having knowledge of well MIT failure.
- F. Loss of Mechanical Integrity:** The operator shall report within 24 hours of discovery any failure of the casing, tubing or packer, or movement of fluids outside of the injection zone. The operator shall cease operations until proper repairs are made and receive OCD approval to re-start injection operations. In addition, any associated fresh ground water monitor wells, which exhibit anomalous static water levels, detection of elevated general chemistry constituents, public health issues, etc. shall be immediately reported to the OCD.
- G. Injection Record Volumes and Pressures:** The owner/operator shall submit quarterly reports of its disposal, operation and well workovers provided herein. The minimum, maximum, average flow waste injection volumes (including total volumes) and

annular pressures of waste (oil field exempt/non-exempt non-hazardous waste) injected will be recorded monthly and submitted to the OCD Santa Fe Office on a quarterly basis.

The casing-tubing annulus shall contain fluid and be equipped with a pressure gauge or an approved leak detection device in order to determine leakage in the casing, tubing, or packer. Due to pressure fluctuations observed at Navajo's other two nearby Class I Injection Wells, WDW-2 shall be equipped with an expansion tank under constant 100 psig pressure connected to the casing-annulus and maintained under constant pressure. The expansion tank shall initially be filled half-full (250 gallon expansion tank) with an approved fluid to establish an equilibrium volume and fluid level. Weekly monitoring of fluid levels in the expansion tank coupled with documented additions/ removals of fluids into or out of the expansion tank is required to maintain the equilibrium volume. Any loss or gain of fluids in the expansion tank shall be recorded, and if significant, reported to the OCD within 24 hours of discovery. The owner/operator shall provide the following information on a quarterly basis: weekly expansion tank volume readings shall be provided in a table in the cover letter of each quarterly report. Navajo shall monitor, record and note any fluid volume additions or removals from the expansion tank on a quarterly basis. In addition, any well activity (i.e., plugging, changing injection intervals, etc.) shall be conducted in accordance with all applicable New Mexico Oil Conservation Division regulations.

- H. Analysis of Injected Waste:** Provide an analytical data or test results summary of the injection waste water with each annual report. The analytical testing shall be conducted on a quarterly basis with any exceedence reported to the OCD within 24 hours after having knowledge of an exceedence(s). Records shall be maintained at Navajo for the life of the well. The required analytical test methods are:
- a.** Aromatic and halogenated volatile hydrocarbon scan by EPA Method 8260C GC/MS. Semi-volatile Organics GC/MS EPA Method 8270B including 1 and 2-methylnaphthalene.
  - b.** General water chemistry (Method 40 CFR 136.3) to include calcium, potassium, magnesium, sodium, bicarbonate, carbonate, chloride, sulfate, total dissolved solids (TDS), pH, and conductivity.
  - c.** Heavy metals using the ICP scan (EPA Method 6010) and Arsenic and Mercury using atomic absorption (EPA Methods 7060 and 7470).
  - d.** EPA RCRA Characteristics for Ignitability, Corrosivity and Reactivity (40 CFR part 261 Subpart C Sections 261.21 – 261.23, July 1, 1992).

- I. Area of Review (AOR):** The operator shall report within 24 hours of discovery of any new wells, conduits, or any other device that penetrates or may penetrate the injection zone within a 1-mile radius from the Class I Well. Documentation of new wells shall be added to the existing AOR information in the well file within 30 days of the discovery.
- J. Bonding or Financial Assurance:** The operator shall maintain at a minimum, a one well plugging bond in the amount of \$95,000 or the actual amount required to plug/abandon the well pursuant to OCD and WQCC rules and regulations. If warranted, OCD may require additional financial assurance to ensure adequate funding to plug and abandon the well or for any corrective actions.
- K. Annual Report:** All operators shall submit an annual report due on January 31 of each year. The report shall include the following information:
1. Cover sheet marked as "Annual Class I Well Report, name of operator, permit #, API# of well(s), date of report, and person submitting report.
  2. Brief summary of Class I Well(s) operations including description and reason for any remedial or major work on the well with a copy of OCD Form C-103.
  3. Production volumes as required above in 21.G. including a running total should be carried over to each year. The maximum and average injection pressure.
  4. A copy of the chemical analysis as required above in 21.H.
  5. A copy of any mechanical integrity test chart, including the type of test, i.e. duration, gauge pressure, etc.
  6. Brief explanation describing deviations from normal production methods.
  7. A copy of any expansion tank monitoring pressure, fluid removals/additions, well problems, drinking water impacts, leaks and spills reports.
  8. If applicable, results of any groundwater monitoring.
  9. An Area of Review (AOR) update summary.
  10. Sign-off requirements pursuant to WQCC Subsection G 20.6.2.5101.
  11. A summary with interpretation of MITs, Fall-Off Tests, etc., with conclusion(s) and recommendation(s).
  12. Annual facility training.

**22. Transfer of Discharge Permit:** Pursuant to WQCC 20.6.2.5101.H the Navajo Refining Company and any new owner/operator shall provide written notice of any transfer of the permit in accordance with WQCC 20.6.2.3104 (Discharge Permit Required), 20.6.2.3111 (Transfer of Discharge Permit), 20.6.2.5101 (Discharge Permit and Other Requirements for Class I Non-Hazardous Waste Disposal Wells, and Class III Wells). Both parties shall sign the notice 30 days prior to any transfer of ownership, control or possession of a Class I Well with an approved discharge permit. In addition, the purchaser shall include a written commitment to comply with the terms and conditions of the previously approved discharge permit. OCD will not transfer Class

I Well operations until: correspondence between the transferor and transferee is submitted along with a signed certification of acceptance by the transferee, and proper bonding or financial assurance is in place and approved by the division. OCD reserves the right to require a major modification of the permit during the transfer process.

**23. Training:** All personnel associated with operations at the Navajo Class I disposal well shall have appropriate training in accepting, processing, and disposing of Class I non exempt non-hazardous refinery waste to insure proper disposal. Provide training documentation in annual report under Section 21K(12).

**24. Closure:** The Navajo Refining Company shall notify the OCD when operations of the facility are to be discontinued for a period in excess of six months. Prior to closure of the facility, the operator shall submit for OCD approval, a closure plan including a completed C-103 form for plugging and abandonment of the well(s). Closure and waste disposal shall be in accordance with the statutes, rules and regulations in effect at the time of closure.

**25. CERTIFICATION: (OWNER/OPERATOR),** by the officer whose signature appears below, acknowledges receipt of this Discharge Permit, and has reviewed its terms and conditions.

NAVAJO REFINING COMPANY, LLC  
Company Name- print name above

MICHAEL WHATLEY  
Company Representative- print name

Michael Whatley  
Company Representative Signature

Title VP Refinery Manager

Date: 10-20-09



New Mexico Energy, Minerals and Natural Resources Department

**Bill Richardson**  
Governor

Joanna Prukop  
Cabinet Secretary

Mark Fesmire  
Division Director  
Oil Conservation Division



September 21, 2009

Mr. Darrell Moore  
Environmental Manager for Water and Waste  
Navajo Refining Company, L.L.C.  
501 East Main Street, P.O. Drawer 159  
Artesia, New Mexico 88211-0159

Re: **Approval of Class I Injection Well Discharge Permit UIC-CLI-008-1 (I-008-1)  
Class I Non-Hazardous Oil Field Waste Disposal Well  
WDW-2, API No. 30-015-20894  
1980 FNL and 660 FWL UL: E Section 12, T 18 S, R 27 E  
Eddy County, New Mexico**

Dear Mr. Moore:

Pursuant to the Water Quality Control Commission (WQCC) Regulations 20.6.2 NMAC and more specifically 20.6.2.3104 - 20.6.2.3999 and 20.6.2.5000-.5299, the Oil Conservation Division (OCD) hereby authorizes Navajo Refining Company Class I WDW-2 Waste Disposal Well (API No. 30-015-20894) in Eddy County, New Mexico, under the conditions specified in the enclosed **Attachment To The Class I Injection Well Discharge Permit**.

Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within 30 working days of receipt of this letter-including permit fees.**

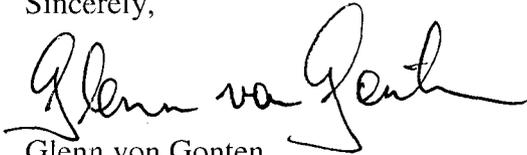
Please be advised that approval of this permit does not relieve the Navajo Refining Company of responsibility should operations result in pollution of surface water, ground water or the environment. Nor does approval of the permit relieve the Navajo Refining Company of its responsibility to comply with any other applicable governmental authority's rules and regulations.



Mr. Moore  
Navajo Refining Company  
September 21, 2009  
Page 2

If you have any questions, please contact Carl Chavez of my staff at (505-476-3490) or E-mail address: carlj.chavez@state.nm.us. On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge permit review.

Sincerely,

A handwritten signature in cursive script that reads "Glenn von Gonten". The signature is written in black ink and is positioned above the printed name.

Glenn von Gonten  
Acting Environmental Bureau Chief

GvG/cc  
Attachments-1  
xc: OCD District Office

**ATTACHMENT TO THE DISCHARGE PERMIT**  
**Navajo Refining Company WDW-2 Class I Waste Disposal Well UIC-CLI-008-1 (I-008-1)**  
**DISCHARGE PERMIT APPROVAL CONDITIONS**

September 21, 2009

Please remit a check for \$4,500.00 made payable to Water Quality Management Fund:

**Water Quality Management Fund**  
**C/o: Oil Conservation Division**  
**1220 S. Saint Francis Drive**  
**Santa Fe, New Mexico 87505**

- 1. Payment of Discharge Plan Fees:** All discharge permits are subject to WQCC Regulations. Every billable facility that submits a discharge permit application will be assessed a filing fee of \$100.00, plus a renewal flat fee (*see* WQCC Regulation 20.6.2.3114 NMAC). The Oil Conservation Division (“OCD”) has received the required \$100.00 filing fee and the Navajo Refining Company still owes the required \$4500.00 permit fee. The total fee amount due is \$4500 for the Class I Well.
- 2. Permit Expiration and Renewal Conditions and Penalties:** Pursuant to WQCC Regulation 20.6.2.3109.H.4 NMAC, this permit is valid for a period of five years. **The permit will expire on October 5, 2014** and an application for renewal should be submitted no later than 120 days before that expiration date. Pursuant to WQCC Regulation 20.6.2.3106.F NMAC, if a discharger submits a discharge permit renewal application at least 120 days before the discharge permit expires and is in compliance with the approved permit, then the existing discharge permit will not expire until the application for renewal has been approved or disapproved. *Expired permits are a violation of the Water Quality Act (Chapter 74, Article 6, NMSA 1978) and civil penalties may be assessed accordingly.*
- 3. Permit Terms and Conditions:** Pursuant to WQCC Regulation 20.6.2.3104 NMAC, when a permit has been issued, the Navajo Refining Company must ensure that all discharges shall be consistent with the terms and conditions of the permit. In addition, all facilities shall abide by the applicable rules and regulations administered by the OCD pursuant to the Oil and Gas Act, NMSA 1978, Sections 70-2-1 through 70-2-38. All injection operations related to oil and natural gas production in New Mexico are regulated under the provisions of the Oil and Gas Act, NMSA 1978, Sections 70-2-1 *et seq.* and the Water Quality Act, NMSA 1978, Sections 74-6-1 *et seq.* These Acts delegate authority for enforcement of their provisions relating to oil and natural gas drilling, production, processing, and transportation to the Oil Conservation Division (OCD) of the New Mexico Energy, Minerals and Natural Resources Department, and to the Oil Conservation Commission (OCC) and the Water Quality Control Commission (WQCC). To carry out its authority, the OCC has promulgated rules (19 NMAC) and numerous orders. Navajo Refining Company shall comply with WQCC Regulations 20.6.2 *et seq.* NMAC relating to Class I Waste Disposal Wells.

**4. Navajo Refining Company Commitments:** The Navajo Refining Company shall abide by all commitments submitted in its June 28, 2006 Application for Permit to Drill, Re-enter, Deepen, Plug back or Add a Zone API No. 30-015-26575" including subsequent attachments and amendments; letters and conditions herein for approval. Permit applications that reference previously approved plans on file with the division shall be incorporated in this permit and the Navajo Refining Company shall abide by all previous commitments of such plans and these conditions for approval.

**5. Modifications:** WQCC Regulation 20.6.2.3107.C, 20.6.2.3109 and 20.6.2.5101.I NMAC addresses possible future modifications of a permit. The Navajo Refining Company (discharger) shall notify the OCD of any facility expansion, production increase or process modification that would result in any significant modification in the discharge of water contaminants. The Division Director may require a permit modification if any water quality standard specified at 20.6.2.3103 NMAC is or will be exceeded, or if a toxic pollutants as defined in WQCC Regulation 20.6.2.7 NMAC is present in ground water at any place of withdrawal for present or reasonably foreseeable future use, or that the Water Quality Standards for Interstate and Intrastate streams as specified in 20.6.4 NMAC are being or may be violated in surface water in New Mexico.

**6. Waste Disposal and Storage:** Navajo Refining Company shall dispose of all other non-injected wastes at an OCD-approved facility. Only oil field RCRA-exempt wastes may be disposed of by injection in a Class I well. RCRA non-hazardous, exempt and non-exempt oil field wastes may be disposed of at an OCD-approved facility upon proper waste determination pursuant to 40 CFR Part 261. Any waste stream that is not listed in the discharge permit application must be approved by the OCD on a case-by-case basis.

**A. OCD Rule 712 Waste:** Pursuant to OCD Rule 712 (19.15.9.712 NMAC) disposal of certain non-domestic waste without notification to the OCD is allowed at NMED permitted solid waste facilities if the waste stream has been identified in the discharge permit and existing process knowledge of the waste stream does not change.

**B. Waste Storage:** The Navajo Refining Company shall store all waste in an impermeable bermed area, except waste generated during emergency response operations for up to 72 hours. All waste storage areas shall be identified in the discharge permit application. Any waste storage area not identified in the permit shall be approved on a case-by-case basis only. The Navajo Refining Company shall not store oil field waste on-site for more than 180 days unless approved by the OCD.

**7. Drum Storage:** The Navajo Refining Company must store all drums, including empty drums, containing materials other than fresh water on an impermeable pad with curbing. The Navajo Refining Company must store empty drums on their sides with the bungs in place and lined up on a horizontal plane. The Navajo Refining Company must store chemicals in other containers, such as tote tanks, sacks, or buckets on an impermeable pad with curbing.

**8. Process, Maintenance and Yard Areas:** The Navajo Refining Company shall either pave and curb or have some type of spill collection device incorporated into the design at all process, maintenance, and yard areas which show evidence that water contaminants from releases, leaks and spills have reached the ground surface.

**9. Above Ground Tanks:** The Navajo Refining Company shall ensure that all aboveground tanks have impermeable secondary containment (e.g., liners and berms), which will contain a volume of at least one-third greater than the total volume of the largest tank or all interconnected tanks. The Navajo Refining Company shall retrofit all existing tanks before discharge permit renewal. Tanks that contain fresh water or fluids that are gases at atmospheric temperature and pressure are exempt from this condition.

**10. Labeling:** The Navajo Refining Company shall clearly label all tanks, drums, and containers to identify their contents and other emergency notification information. The Navajo Refining Company may use a tank code numbering system, which is incorporated into their emergency response plans.

**11. Below-Grade Tanks/Sumps and Pits/Ponds.**

**A.** All below-grade tanks and sumps must be approved by the OCD prior to installation and must incorporate secondary containment with leak detection into the design. The Navajo Refining Company shall retrofit all existing systems without secondary containment and leak detection before discharge permit renewal. All existing below-grade tanks and sumps without secondary containment and leak detection must be tested annually or as specified herein. Systems that have secondary containment with leak detection shall have a monthly inspection of the leak detection system to determine if the primary containment is leaking. Small sumps or depressions in secondary containment systems used to facilitate fluid removal are exempt from these requirements if fluids are removed within 72 hours.

**B.** All pits and ponds, including modifications and retrofits, shall be designed by a certified registered professional engineer and approved by the OCD prior to installation. In general, all pits or ponds shall have approved hydrologic and geologic reports, location, foundation, liners, and secondary containment with leak detection, monitoring and closure plans. All pits or ponds shall be designed, constructed and operated so as to contain liquids and solids in a manner that will protect fresh water, public health, safety and the environment for the foreseeable future. The Navajo Refining Company shall retrofit all existing systems without secondary containment and leak detection before discharge permit renewal.

**C.** The Navajo Refining Company shall ensure that all exposed pits, including lined pits and open top tanks (8 feet in diameter or larger) shall be fenced, screened, netted, or otherwise rendered non-hazardous to wildlife, including migratory birds.

**D.** The Navajo Refining Company shall maintain the results of tests and inspections at the facility covered by this discharge permit and available for OCD inspection. The Navajo

Refining Company shall report the discovery of any system which is found to be leaking or has lost integrity to the OCD within 15 days. The Navajo Refining Company may propose various methods for testing such as pressure testing to 3 pounds per square inch greater than normal operating pressure and/or visual inspection of cleaned tanks and/or sumps, or other OCD-approved methods. The Navajo Refining Company shall notify the OCD at least 72 hours prior to all testing.

**12. Underground Process/Wastewater Lines:**

**A.** The Navajo Refining Company shall test all underground process/wastewater pipelines at least once every five (5) years to demonstrate their mechanical integrity, except lines containing fresh water or fluids that are gases at atmospheric temperature and pressure. Pressure rated pipe shall be tested by pressuring up to one and one-half times the normal operating pressure, if possible, or for atmospheric drain systems, to 3 pounds per square inch greater than normal operating pressure, and pressure held for a minimum of 30 minutes with no more than a 1% loss/gain in pressure. The Navajo Refining Company may use other methods for testing if approved by the OCD.

**B.** Navajo Refining Company shall maintain underground process and wastewater pipeline schematic diagrams or plans showing all drains, vents, risers, valves, underground piping, pipe type, rating, size, and approximate location. All new underground piping must be approved by the OCD prior to installation. The Navajo Refining Company shall report any leaks or loss of integrity to the OCD within 15 days of discovery.

Navajo Refining Company shall maintain the results of all tests at the facility covered by this discharge permit and they shall be available for OCD inspection. The Navajo Refining Company shall notify the OCD at least 72 hours prior to all testing.

**13. Class V Wells:** The Navajo Refining Company shall close all Class V wells (e.g., septic systems, leach fields, dry wells, etc.) that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes unless it can be demonstrated that ground water will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD-regulated facilities that inject non-hazardous fluid into or above an underground source of drinking water are considered Class V Waste Disposal Wells under the EPA UIC program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department (NMED).

**14. Housekeeping:** The Navajo Refining Company shall inspect all systems designed for spill collection/prevention and leak detection at least monthly to ensure proper operation and to prevent over topping or system failure. All spill collection and/or secondary containment devices shall be emptied of fluids within 72 hours of discovery. The Navajo Refining Company shall maintain all records at the facility and available for OCD inspection.

**15. Spill Reporting:** The Navajo Refining Company shall report all unauthorized discharges, spills, leaks and releases and conduct corrective action pursuant to WQCC Regulation

20.5.12.1203 NMAC and OCD Rule 116 (19.15.3.116 NMAC). The Navajo Refining Company shall notify both the OCD District Office and the Santa Fe Office within 24 hours and file a written report within 15 days.

**16. OCD Inspections:** The OCD may place additional requirements on the facility and modify the permit conditions based on well emergencies, OCD inspections, and/or quarterly reporting information.

**17. Storm Water:** The Navajo Refining Company shall implement and maintain run-on and runoff plans and controls. The Navajo Refining Company shall not discharge any water contaminant that exceeds the WQCC standards specified in 20.6.2.3101 NMAC or 20.6.4 NMAC (Water Quality Standards for Interstate and Intrastate Streams) including any oil sheen in any storm water run-off. The Navajo Refining Company shall notify the OCD within 24 hours of discovery of any releases and shall take immediate corrective action(s) to stop the discharge.

**18. Unauthorized Discharges:** The Navajo Refining Company shall not allow or cause water pollution, discharge or release of any water contaminant that exceeds the WQCC standards listed in 20.6.2.3101 NMAC or 20.6.4 NMAC (Water Quality Standards for Interstate and Intrastate Streams) unless specifically listed in the permit application approved herein.

**An unauthorized discharge is a violation of this permit.**

**19. Vadose Zone and Water Pollution:** The Navajo Refining Company shall address any contamination through the discharge permit process or pursuant to WQCC 20.6.2.4000-.4116 NMAC (Prevention and Abatement of Water Pollution). The OCD may require the Navajo Refining Company to modify its permit for investigation, remediation, abatement, and monitoring requirements for any vadose zone or water pollution. Failure to perform any required investigation, remediation, abatement and submit subsequent reports will be a violation of the permit.

**20. Additional Site Specific Conditions:** The Navajo Refining Company shall notify the OCD within 24 hours after having knowledge of ground water pollution complaints or well problems within a 1-mile radius of WDW-2.

- A. **Notification:** The Navajo Refining Company shall notify the OCD within 24 hours after having knowledge of ground water pollution complaints or well problems within a 1-mile radius of WDW-2.
- B. **Hydrogen Sulfide (H<sub>2</sub>S) Contingency Plan:** If concentrations of H<sub>2</sub>S at the facility may exceed 100 ppm as specified in 19.15.11.12 et seq. NMAC, a H<sub>2</sub>S Contingency Plan per 19.15.11.9 et seq. NMAC shall be submitted within 3 months of permit issuance.

**21. Class I Injection Well(s) Identification, Operation, Monitoring, Bonding and Reporting.**

- A. Well Identification: API # 30-015-20894
- B. Well Work Over Operations: OCD approval will be obtained prior to performing remedial work, pressure test or any other work. Approval will be requested on OCD Form C-103 "Sundry Notices and Reports on Wells" (OCD Rule 1103.A) with appropriate copies sent to the OCD Environmental Bureau and District Office.
- C. Injection Formation, Interval & Waste: Injected refinery exempt/non-exempt non-hazardous wastes will be injected into the Wolfcamp, Cisco and Canyon Formations at the interval 7,570 ft to 8,399 ft. Tubing shall be surrounded by surface casing set to a depth protective of fresh ground water (< 10,000 ppm TDS). The owner/operator shall take all steps necessary to ensure that the injected waste enters only the above specified injection interval and is not permitted to escape to other formations or onto the surface. The operator shall provide written notice of the date of commencement of injection to the Santa Fe Office of the Division.
- D. Well Injection Pressure Limits: The wellhead injection pressure on the well shall be limited to no more than 1,510 psig. In addition, the injection well or system shall be equipped with a pressure limiting device in workable condition, which shall, at all times, limit surface injection pressure to the maximum allowable pressure for this well. The maximum operating surface injection and/or test pressure measured at the wellhead shall not exceed 1,510 psig unless otherwise approved by the OCD. The pressure-limiting device shall monthly be demonstrated and reported quarterly to the OCD. Navajo Refining Company shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the ground surface. Any pressure that causes new fractures or propagation in existing fractures or causes damage to the system shall be reported to OCD within 24 hours of discovery.

The Director of the OCD may authorize an increase in injection pressure upon demonstration by the operator of said well that such higher pressure will not result in migration of the injected fluid from the injection formation. Such demonstration shall consist of a valid step-rate test run in accordance with and acceptable to the OCD.

E. Mechanical Integrity Testing (MIT):

The owner/operator shall complete an annual casing-tubing annulus pressure test from the surface to the approved injection depth and below the depth of fresh ground water (< 10,000 ppm TDS) to assess casing and tubing integrity. The MIT shall consist of a 30-minute test at a minimum pressure from 300 to 500 psig measured at the surface. A Bradenhead test(s) shall also be performed annually along with the

casing-tubing annulus test. A Bradenhead test(s) shall be performed in all annular spaces including surface casing if not cemented.

The owner/operator shall complete an annual pressure fall-off test to monitor the pressure buildup in the injection zone. The well shall be shut down for a period sufficient to conduct the test and shall be submitted to the OCD in the annual report (see Section 21K (11)). All well testing shall be performed annually or shall also be performed whenever the tubing is pulled or the packer reseated or when the injection formation will be isolated from the casing/tubing annuals. The operator shall notify the supervisor of the Santa Fe Office of the Division of the date, time and time of the installation of disposal equipment and of any MIT so that it may be inspected and witnessed.

**1. General Requirements:**

- a. If the testing requires a packer then casing-tubing annulus must be loaded with inert fluid 24 hours prior to testing.
- b. Have manpower and equipment available for pressure test. Wellhead shall be prepared for test and all valves and gauges should be in good working order.
- c. Pumps, tanks, external lines etc. must be isolated from the wellhead during test.
- d. A continuous recording pressure device with a maximum 4-hour clock shall be installed on the casing-tubing annulus. The pressure range shall not be greater than 500 psig. The operator must provide proof that the pressure-recording device has been calibrated within the past 6 months.
- e. A minimum of one pressure gauge shall be installed on the casing/tubing annulus.
- f. OCD must witness the beginning of test (putting chart on) and ending of test (removing chart). At the end of test, the operator may be required to bleed-off well pressure to demonstrate recorder and gauge response.
- g. The Operator shall supply the following information on the pressure chart that the inspector will file in the well records:
  1. Company Name, Well Name, API #, Legal Location.
  2. Test Procedure with "Pass/Fail" designation.
  3. Testing Media: Water, Gas, Oil, Etc.
  4. Date, time started and ending.

5. Name (printed) and signature of company representative and OCD Inspector

2. Test Acceptance:

The OCD will use the following criteria in determining if a well has passed the Mechanical Integrity Test:

- a. Passes if Zero Bleed-Off during the test.
- b. Passes if Final Test Pressure is within  $\pm 10\%$  of Starting Pressure, if approved by the OCD inspector.
- c. Fails if any Final Test Pressure is greater than  $\pm 10\%$  of Starting Pressure. Operators must investigate for leaks and demonstrate that mechanical integrity of the well(s) by ensuring there are no leaks in the tubing, casing, or packer, and injected/produced fluids are confined within the piping and/or injection zones. Wells shall not resume operations until approved by OCD.

Note: OCD recognizes that different operations, well designs, formation characteristics and field conditions may cause variations in the above procedures. If the operator wishes to make or discuss anticipate changes, please notify the OCD for approval. All operators are responsible to notify OCD of any procedure that may cause harm to the well system or formation. Please be advised that OCD approval does not relieve any operator of liability should operations result in pollution of surface water, groundwater, or the environment.

- d. When the MIT is not witnessed by an OCD Representative and fails, the owner/operator shall notify the OCD within 24 hours after having knowledge of well MIT failure.
- F. Loss of Mechanical Integrity: The operator shall report within 24 hours of discovery any failure of the casing, tubing or packer, or movement of fluids outside of the injection zone. The operator shall cease operations until proper repairs are made and receive OCD approval to re-start injection operations. In addition, any associated fresh ground water monitor wells, which exhibit anomalous static water levels, detection of elevated general chemistry constituents, public health issues, etc. shall be immediately reported to the OCD.
- G. Injection Record Volumes and Pressures: The owner/operator shall submit quarterly reports of its disposal, operation and well workovers provided herein. The minimum, maximum, average flow waste injection volumes (including total volumes) and

annular pressures of waste (oil field exempt/non-exempt non-hazardous waste) injected will be recorded monthly and submitted to the OCD Santa Fe Office on a quarterly basis.

The casing-tubing annulus shall contain fluid and be equipped with a pressure gauge or an approved leak detection device in order to determine leakage in the casing, tubing, or packer. Due to pressure fluctuations observed at Navajo's other two nearby Class I Injection Wells, WDW-2 shall be equipped with an expansion tank under constant 100 psig pressure connected to the casing-annulus and maintained under constant pressure. The expansion tank shall initially be filled half-full (250 gallon expansion tank) with an approved fluid to establish an equilibrium volume and fluid level. Weekly monitoring of fluid levels in the expansion tank coupled with documented additions/ removals of fluids into or out of the expansion tank is required to maintain the equilibrium volume. Any loss or gain of fluids in the expansion tank shall be recorded, and if significant, reported to the OCD within 24 hours of discovery. The owner/operator shall provide the following information on a quarterly basis: weekly expansion tank volume readings shall be provided in a table in the cover letter of each quarterly report. Navajo shall monitor, record and note any fluid volume additions or removals from the expansion tank on a quarterly basis. In addition, any well activity (i.e., plugging, changing injection intervals, etc.) shall be conducted in accordance with all applicable New Mexico Oil Conservation Division regulations.

- H. Analysis of Injected Waste:** Provide an analytical data or test results summary of the injection waste water with each annual report. The analytical testing shall be conducted on a quarterly basis with any exceedence reported to the OCD within 24 hours after having knowledge of an exceedence(s). Records shall be maintained at Navajo for the life of the well. The required analytical test methods are:
- a. Aromatic and halogenated volatile hydrocarbon scan by EPA Method 8260C GC/MS. Semi-volatile Organics GC/MS EPA Method 8270B including 1 and 2-methylnaphthalene.
  - b. General water chemistry (Method 40 CFR 136.3) to include calcium, potassium, magnesium, sodium, bicarbonate, carbonate, chloride, sulfate, total dissolved solids (TDS), pH, and conductivity.
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- I. Area of Review (AOR): The operator shall report within 24 hours of discovery of any new wells, conduits, or any other device that penetrates or may penetrate the injection zone within a 1-mile radius from the Class I Well. Documentation of new wells shall be added to the existing AOR information in the well file within 30 days of the discovery.
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  3. Production volumes as required above in 21.G. including a running total should be carried over to each year. The maximum and average injection pressure.
  4. A copy of the chemical analysis as required above in 21.H.
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I Well operations until: correspondence between the transferor and transferee is submitted along with a signed certification of acceptance by the transferee, and proper bonding or financial assurance is in place and approved by the division. OCD reserves the right to require a major modification of the permit during the transfer process.

**23. Training:** All personnel associated with operations at the Navajo Class I disposal well shall have appropriate training in accepting, processing, and disposing of Class I non exempt non-hazardous refinery waste to insure proper disposal. Provide training documentation in annual report under Section 21K(12).

**24. Closure:** The Navajo Refining Company shall notify the OCD when operations of the facility are to be discontinued for a period in excess of six months. Prior to closure of the facility, the operator shall submit for OCD approval, a closure plan including a completed C-103 form for plugging and abandonment of the well(s). Closure and waste disposal shall be in accordance with the statutes, rules and regulations in effect at the time of closure.

**25. CERTIFICATION: (OWNER/OPERATOR),** by the officer whose signature appears below, acknowledges receipt of this Discharge Permit, and has reviewed its terms and conditions.

\_\_\_\_\_  
Company Name- print name above

\_\_\_\_\_  
Company Representative- print name

\_\_\_\_\_  
Company Representative- Signature

Title \_\_\_\_\_

Date: \_\_\_\_\_



Infrastructure, environment, buildings

ARCADIS U.S., Inc.  
TX Engineering License # F-533

Mr. Carl J, Chavez  
New Mexico Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

ARCADIS  
1004 North Big Spring Street  
Suite 300  
Midland  
Texas 79701  
Tel 432.687.5400  
Fax 432.687.5401  
[www.arcadis-us.com](http://www.arcadis-us.com)

ENVIRONMENTAL

Sent Certified Mail Return Receipt Number 7002 2410 0001 5813 0035

Subject:

Proof of Public Notice  
Discharge Plan Permit (UIC I-008-1 and I-008)  
Navajo Refining Company  
Artesia, Eddy County, New Mexico

Date:  
August 13, 2009

Contact:  
Sharon Hall

Dear Mr Chavez:

Phone:  
432 687-5400

Respectfully submitted on behalf of Navajo Refining Company is this proof of publication for the above referenced Discharge Plan Permit. Notice of Publication for Discharge Plan Permits UIC I-008-1 and I-008 were published in English and Spanish in the Artesia Daily Press on Sunday, August 9, 2009. The notices of publication and affidavits of publication are attached.

Email:  
[shall@arcadis-us.com](mailto:shall@arcadis-us.com)

If you have any questions or require additional information please contact me at (432) 687-5400 or [shall@arcadis-us.com](mailto:shall@arcadis-us.com).

Sincerely,

ARCADIS

*Sharon E. Hall*

Sharon E. Hall  
Associate Vice President

Copies:

Darrell Moore- Navajo Refining Company

Attachments:

Affidavit I-008-1 with attached English and Spanish published notices  
Affidavit I-008- with attached English and Spanish published notices

2009 AUG 17 P 12:53  
RECEIVED OGD

Imagine the result

**AFFIDAVIT OF PUBLICATION**

**Artesia Daily Press**

503 W. Main Street, Artesia, New Mexico 88210-2067  
(575) 746-3524

**STATE OF NEW MEXICO**  
**COUNTY OF Eddy**

I Gary Scott (NAME OF PERSON AUTHORIZED TO SIGN ON BEHALF OF THE NEWSPAPER), am authorized by the publisher as agent to make this affidavit of publication. Under oath, I state that the following is true and correct.

The Artesia Daily Press is a newspaper, which is published daily, Artesia, Eddy County, New Mexico, and is of general paid circulation and is in compliance with New Mexico Public Notice and Participation Statute 20.6.2.3108. The newspaper is a duly qualified newspaper under the laws of the State wherein legal notices may be published and that the printed notice attached hereto was published in the regular and entire edition of the newspaper and not in supplement thereof on the date of publication below.

The notice has been published once in the newspaper listed above.

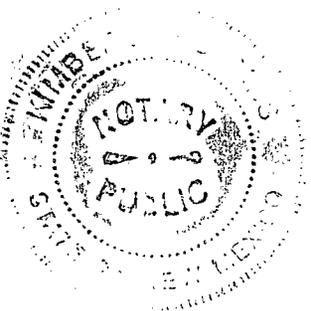
DATE OF PUBLICATION:  
August 7, 2009

THE NAME OF THE COMPANY: NAVAJO REFINING COMPANY

PROJECT SITE: (I-008-1) NAVAJO REFINING COMPANY – ARTESIA REFINERY

TYPE OF NOTICE: APPLICATION FOR DISCHARGE PERMIT

AUTHORIZED SIGNATURE:  
  
Title: Publisher



SUBSCRIBED AND SWORN TO BEFORE ME ON THE  
10<sup>th</sup> DAY OF August, 2009

NOTARY SIGNATURE: Kimbalyn G. Combs  
MY COMMISSION EXPIRES ON: April 5, 2011  
NOTARY PUBLIC IN AND FOR THE COUNTY OF EDDY, NEW MEXICO

**Please attach a newsprint clip of the published notices (Spanish and English).**

**NOTICE OF PUBLICATION**

**Navajo Refining Company  
Artesia, New Mexico**

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations (20.6.2.3108 NMAC), the following discharge permit application(s) has been submitted to the Director of the New Mexico Oil Conservation Division ("NMOCD"), 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(I-008-1) Navajo Refining Company, Darrell Moore, Environmental Manager for Water and Waste, 501 East Main Street, P.O. Box Drawer 159, Artesia, New Mexico, 88211-0159, has submitted an application for a Class I Injection Well Discharge Permit (UIC-CLI-008-1) for injection well WDW-2 (API#30-015-20894) located in the SW/4, NW/4 of Section 12, Township 18 South, Range 27 East, NMPM, Eddy County, New Mexico. The injection well is located approximately 10.5 miles East-Southeast of Artesia on Hwy-82 from Hwy-285 and about 3.3 miles south on Hilltop Road. Oil field exempt and non-exempt non-hazardous industrial waste will be transported about 10.5 miles underground from the Navajo-Artesia Refinery located at 501 E. Main Street, Artesia, NM via a 6 inch dia. pipeline to WDW-2 for disposal into the Wolfcamp, Cisco, and Canyon Formations in the injection interval from 7,570 to 8,399 feet (depth below ground level). The total dissolved solids concentration of the injection zone ranges from 13,000 mg/l to 119,909 mg/l. The injection rate will not exceed 500 gpm at a maximum injection pressure of 1,510 psig. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 100 feet below the ground surface, with a total dissolved solids concentration of 100 to 1,535 mg/l. The discharge plan addresses well operation, monitoring, associated surface facilities, and provides a contingency plan in the event of accidental spills, leaks, and other accidental discharges in order to protect fresh water.

The NMOCD has determined that the application is administratively complete and has prepared a draft permit. The NMOCD will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons who wish to receive future notices. Persons interested in obtaining further information; submitting comments or requesting to be on a facility-specific mailing list for future notices may contact the Environmental Bureau Chief of the Oil Conservation Division at the address given above. The administrative completeness determination and draft permit may be reviewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday, or also may be viewed at the NMOCD web site <http://www.emnrd.state.nm.us/ocd>. Persons interested in obtaining a copy of the application and draft permit may contact NMOCD at the address given above. Prior to ruling on any proposed discharge permit or major modification, the Director shall allow a period of at least thirty (30) days after the date of publication of this notice, during which interested persons may submit comments or request the NMOCD hold a public hearing. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines that there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the permit based on information available, including all comments received. If a public hearing is held, the Director will approve or disapprove the proposed permit based on information in the permit application and information submitted at the hearing.

Published in the Artesia Daily Press, August 9, 2009. Legal 20793.

**AFFIDAVIT OF PUBLICATION**

**Artesia Daily Press**

503 W. Main Street, Artesia, New Mexico 88210-2067  
(575) 746-3524

**STATE OF NEW MEXICO**  
**COUNTY OF Eddy**

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The notice has been published once in the newspaper listed above.

DATE OF PUBLICATION:  
August 7, 2009

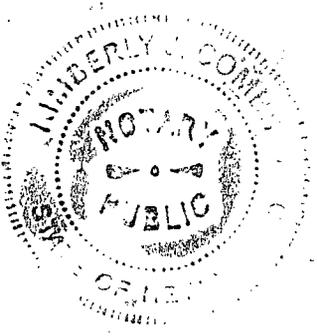
THE NAME OF THE COMPANY: NAVAJO REFINING COMPANY

PROJECT SITE: (I-008-1) NAVAJO REFINING COMPANY - ARTESIA REFINERY

TYPE OF NOTICE: APPLICATION FOR DISCHARGE PERMIT

AUTHORIZED SIGNATURE: *Gary Scott*

Title: Publisher



SUBSCRIBED AND SWORN TO BEFORE ME ON THE  
10th DAY OF August, 2009

NOTARY SIGNATURE: *Kimberly J. Combs*  
MY COMMISSION EXPIRES ON: April 5, 2011  
NOTARY PUBLIC IN AND FOR THE COUNTY OF EDDY, NEW MEXICO

**Please attach a newsprint clip of the published notices (Spanish and English).**

**Navajo Refining Company  
Artesia, Nuevo México**

Se notifica que de conformidad con el Reglamento de Control de la Calidad del Agua de la Comisión de Nuevo México (20.6.2.3108 NMAC), la siguiente solicitud de permiso de descarga (s) se ha presentado al Director de la División de Conservación de Petróleo de Nueva México ("NMOCD"), 1220 S. Saint Francis Drive, Santa Fe, Nuevo México 87505, Teléfono (505) 476-3440:

**(I-008-1) Navajo Refining Company, Darrell Moore, Gerente Ambiental de Agua y Residuos, 501 East Main Street, PO Box Drawer, 159 Artesia, Nuevo México, 88211-0159, ha presentado una solicitud de permiso de descarga de pozo de inyección Clase I (UIC-CLI-008-1) para el pozo de inyección WDW-2 (API # 30-015-20894) situado en el SW/4, NW/4 de la Sección 12, Municipio 18 Sur, Range 27 East, NMPM, Eddy, Nuevo México. El pozo de inyección se encuentra aproximadamente a 10.5 millas al este-sudeste de Artesia en autopista-82 de la autopista-285 y cerca de 3.3 millas al sur de carretera Hilltop. Los residuos industriales no peligrosos de los campos petroleros exentos y no-exentos, se transportarán alrededor de 11 millas desde Refinería Navajo-Artesia ubicada en 501 E. Main Street, Artesia, NM a través de un gasoducto subterráneo de 6 pulgadas de diámetro a WDW-2 para su disposición en Wolfcamp, Cisco, y las formaciones del Cañón en intervalo de inyección de 7,570 a 8,399 pies (profundidad bajo el nivel del suelo). La concentración de sólidos disueltos totales de la zona de inyección varía de 13,000 mg/l de 119,909 mg/l. La tasa de inyección no excederá de 500 gpm a una presión de inyección máxima de 1,510 psig. La mayoría de las aguas subterráneas que puedan verse afectadas por un derrame, fuga o liberación accidental está a una profundidad de aproximadamente 100 pies por debajo de la superficie del suelo, con una concentración de sólidos disueltos totales de 100 a 1,535 mg/l. El plan de descarga aborda la operación, monitoreo, instalaciones de superficie asociadas, y ofrece un plan de contingencia en caso de derrames accidentales, fugas, vertidos accidentales y otros, a fin de proteger el agua dulce.**

El NMOCD ha determinado que la solicitud es administrativamente completa y ha preparado un borrador del permiso. El NMOCD aceptará comentarios y declaraciones de interés respecto a esta solicitud y se creará una lista de correo de instalación-específica para las personas que deseen recibir futuras notificaciones. Las personas interesadas en obtener más información o avisos, solicitar la presentación de observaciones o a estar en una instalación- específica pueden ponerse en contacto con el Jefe de la Oficina Ambiental de la División de Conservación de Petróleo en la dirección arriba indicada para la futura lista de correo. La determinación de la integridad administrativa y el proyecto de permiso podrá revisarse en la dirección antes mencionada entre las 8:00 am y 4:00 pm, de lunes a viernes, o también puede ser visto en NMOCD en el sitio web <http://www.emnrd.state.nm.us/nosotros/ocd>. Las personas interesadas en obtener una copia de la solicitud y el borrador del permiso pueden ponerse en contacto con NMOCD a la dirección indicada anteriormente. Antes de pronunciarse sobre cualquier de permiso de descarga propuesto o de modificación importante, el Director deberá permitir un período de por lo menos treinta (30) días después de la fecha de publicación del presente anuncio, durante el cual las personas interesadas podrán presentar observaciones o solicitar la NMOCD celebrará una audiencia pública. Las solicitudes de audiencia pública expondrán las razones por las cuales la audiencia se debe celebrar. La audiencia se celebrará si el Director determina que existe un importante interés público.

Si no se celebra la audiencia pública, el Director aprobará o rechazará el permiso en base a la información disponible, incluyendo todos los comentarios recibidos. Si es una audiencia pública celebrada, el Director aprobará o rechazará el proyecto de permiso en base a la información en la solicitud de permiso y la información presentada en la audiencia.



P.O. Box 190  
 Artesia, NM 88211  
 575-746-3524

RECEIVED

2009 AUG 3 PM 12 50

# Statement

Date: 7/30/09  
 Activity: 7/1/2009 - 7/31/2009  
 Terms: Net 30

Bill to:

Theresa Duran-Saenz  
 New Mexico Energy, Minerals & Natural  
 Resources Department  
 Oil Conservation Division  
 1220 So. St Francis Drive

Sold to:

Account ID: 4127

Theresa Duran-Saenz  
 New Mexico Energy, Minerals & Natural  
 Resources Department  
 Oil Conservation Division  
 1220 So. St Francis Drive

Balance Forward before 7/1/2009 \$0.00

Date	Ad	Type	Description	Page	Sale	Adj	Pmt	Balance
07/17/09	23348	Sale	PO: legal 20769 NOTICE OF		\$186.16			\$186.16
					\$186.16			

Thank you for advertising with Artesia Daily Press!

Unapplied Credit \$0.00

Paid Future Ads \$0.00

Account Balance as of 7/31/2009 \$186.16

**Invoice Balances:**

Current	30 Day	60 Day	90 Day	120 Day	Over 120	Total
\$186.16						\$186.16

*8/3/09 spoke with Kimberly...  
 she will mail a copy of  
 the notice.*

*ok to pay  
 Carl  
 8/5/09*

Please return this portion with your payment

## Statement

Statement Date: 7/30/2009

Account # 4127

Amount Enclosed \_\_\_\_\_

Remit Payment to  
 Artesia Daily Press  
 P.O. Box 190  
 Artesia, NM 88211  
 575-746-3524

Account Balance as of 7/31/2009 \$186.16

# Affidavit of Publication

NO. 20769

STATE OF NEW MEXICO

County of Eddy:

GARY D. SCOTT

RECEIVED  
2009 AUG 4 AM 11:37

being duly

sworn, says: That he is the PUBLISHER of The

Artesia Daily Press, a daily newspaper of general circulation, published in English at Artesia, said county and county and state, and that the here to attached

### Legal Notice

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for 1 Consecutive week/days on the same

day as follows:

First Publication	July 17, 2009
Second Publication	
Third Publication	
Fourth Publication	
Fifth Publication	

Subscribed and sworn to before me this

17 Day July 2009



OFFICIAL SEAL  
Jo Morgan  
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 6/6/2012

*Jo Morgan*  
Notary Public, Eddy County, New Mexico

# Copy of Publication:

## LEGAL NOTICE

NOTICE OF PUBLICATION  
STATE OF NEW MEXICO  
ENERGY, MINERALS AND  
NATURAL RESOURCES  
DEPARTMENT

OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations (20.6.2.3108-NMAC), the following discharge permit application(s) has been submitted to the Director of the New Mexico Oil Conservation Division ("NMOCD"), 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505; Telephone (505) 476-3440.

(I-008) Navajo Refining Company, Darrell Moore, Environmental Manager for Water and Waste, 501 East Main Street, P.O. Box Drawer 159, Artesia, New Mexico 88211-0159, has submitted an application for a Class I Injection Well Discharge Permit (UIC-CL-008) for injection well WDW-1 (API# 30-015-27592) located in the SW/4, SE/4 of Section 31, Township 17 South, Range 28 East, NMPM, Eddy County, New Mexico. The injection well is located approximately 11 miles East-Southeast of Artesia on Hwy 82 from Hwy-285 and about 1 mile south on Hilltop Road. Oil field exempt and non-exempt non-hazardous industrial waste will be transported about 11 miles underground from the Navajo-Artesia Refinery located at 501 E. Main Street, Artesia, NM via a 6 inch dia. pipeline to WDW-1 for disposal into the Wolfcamp, Cisco, and Canyon Formations in the injection interval from 7,924 to 8,476 feet (depth below ground level). The total dissolved solids concentration of the injection zone ranges from 13,000 mg/l to 119,909 mg/l. The injection rate will not exceed 500 gpm at a maximum injection pressure of 1,580 psig. Groundwater most likely to be affected by a

and has prepared a draft permit. The NMOCD will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons who wish to receive future notices. Persons interested in obtaining further information, submitting comments or requesting to be on a facility-specific mailing list for future notices may contact the Environmental Bureau Chief of the Oil Conservation Division at the address given above. The administrative completeness determination and draft permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday, or may also be viewed at the NMOCD web site <http://www.emnrd.state.nm.us/ocd/>. Persons interested in obtaining a copy of the application and draft permit may contact the NMOCD at the address given above. Prior to ruling on any proposed discharge permit or major modification, the Director shall allow a period of at least thirty (30) days after the date of publication of this notice, during which interested persons may submit comments or request that NMOCD hold a public hearing. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines that there is significant public interest. If no public hearing is held, the Director will approve or disapprove the proposed permit based on information available, including all comments received. If a public hearing is held, the director will approve or disapprove the proposed permit based on information in the permit application and information submitted at the hearing. Para obtener más información sobre esta solicitud en español, sírvase comunicarse por favor: New Mexico Energy, Minerals and Natural Resources Department (Departamento de Energía y Recursos Minerales y Naturales).

approximately 100 feet below the ground surface, with a total dissolved solids concentration of 100 to 1,535 mg/L. The discharge plan addresses operation, monitoring, associated surface facilities, and provides a contingency plan in the event of accidental spills, leaks, and other accidental discharges in order to protect fresh water. (I-008-1) Navajo Refining Company. Darrell Moore, Environmental Manager for Water and Waste, 501 East Main Street, P.O. Box Drawer 159, Artesia New Mexico 88211-0159, has submitted an application for a Class I Injection Well Discharge Permit (UIC-CLI-008-1) for injection well WDW-2 (API# 30-015-20894) located in the SW/4, NW/4 of Section 12, Township 18 South, Range 27 East, NMPM, Eddy County, New Mexico. The injection well is located approximately 10.5 miles East-Southeast of Artesia on Hwy-82 from Hwy-285 and about 3.3 miles south on Hilltop Road. Oil field exempt and non-exempt non-hazardous industrial waste will be transported about 10.5 miles underground from the Navajo-Artesia Refinery located at 501 E. Main Street, Artesia, NM via a 6 inch dia. pipeline to WDW-2 for disposal into the Wolfcamp, Cisco, and Canyon Formations in the injection interval from 7,570 to 8,399 feet (depth below ground level). The total dissolved solids concentration of the injection zone ranges from 13,000 mg/l to 119,909 mg/l. The injection rate will not exceed 500 gpm at a maximum injection pressure of 1,510 psig. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 100 feet below the ground surface, with a total dissolved solids concentration of 100 to 1,535 mg/l. The discharge plan addresses well operation, monitoring, associated surface facilities, and provides a contingency plan in the event of accidental spills, leaks, and other accidental discharges in order to protect fresh water.

Natural Resources  
Oil Conservation Division  
(Depto. Conservación Del  
Petróleo) 1220 South St.  
Francis Drive, Santa Fe, New  
Mexico (Contacto: Dorothy  
Phillips, 505-476-3461)  
GIVEN under the Seal of  
New Mexico Oil  
Conservation Commission at  
Santa Fe, New Mexico, on  
this 15th day of July 2009.  
STATE OF NEW MEXICO  
OIL CONSERVATION DIVI-  
SION  
S E A L  
Mark Fesmire, Director  
Published in the Artesia Daily  
Press, Artesia, NM July 17,  
2009  
Legal No. 20769

# Affidavit of Publication

NO. 20769

STATE OF NEW MEXICO

RECEIVED OGD

County of Eddy: 2009 JUL 21 P 1:54

GARY D. SCOTT being duly

sworn, says: That he is the PUBLISHER of The

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Subscribed and sworn to before me this

17 Day July 2009



OFFICIAL SEAL  
Jo Morgan  
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 6/26/2012

Jo Morgan  
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# Copy of Publication:

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NATURAL RESOURCES  
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Para obtener más información sobre esta solicitud en español, sírvase comunicarse por favor: New Mexico Energy, Minerals and Natural Resources Department (Departamento de Energía y Recursos Minerales y Naturales)

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(Depto. Conservación Del Petróleo), 1220 South St. Francis Drive, Santa Fe, New Mexico (Contacto: Dorothy Phillips, 505-476-3461)  
GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 15th day of July, 2009.  
STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION  
S E A L  
Mark Fesmire, Director  
Published in the Artesia Daily Press, Artesia, NM, July 17, 2009  
Legal No. 20769

THE SANTA FE  
**NEW MEXICAN**  
Founded 1849

I-008-1  
(WDW-2)

Permit  
Application

D

2 56

*Bill* L CONSERV  
1220 S SI FRANCIS DR  
SANTA FE NM 87505

ALTERNATE ACCOUNT: 56689  
AD NUMBER: 00292184 ACCOUNT: 00002212  
LEGAL NO: 87680 P.O. #: 52100-00000206  
294 LINES 1 TIME(S) 288.54  
AFFIDAVIT: 7.00  
TAX: 23.83  
TOTAL: 319.37

*OK to print  
Bill  
7/24/09*

AFFIDAVIT OF PUBLICATION

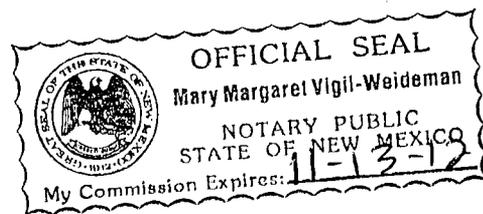
STATE OF NEW MEXICO  
COUNTY OF SANTA FE

I, V. Wright, being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication # 87680 a copy of which is hereto attached was published in said newspaper 1 day(s) between 07/22/2009 and 07/22/2009 and that the notice was published in the newspaper proper and not in any supplement; the first date of publication being on the 22nd day of July, 2009 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

151 *VWSTW*  
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this 22nd day of July, 2009

Notary *Mary Margaret Vigil-Weideman*  
Commission Expires: *11-13-2012*



**NOTICE OF PUBLICATION**

**STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION**

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations (20:62:3108 NMAC), the following discharge permit application(s) has been submitted to the Director of the New Mexico Oil Conservation Division ("NMOCD"), 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505. Telephone: (505)476-3440.

(I-008) Navajo Refining Company, Darrell Moore, Environmental Manager for Water and Waste, 501 East Main Street, P.O. Box Drawer 159, Artesia New Mexico 88211-0159, has submitted an application for a Class I Injection Well Discharge Permit (UIC-CLI-008) for injection well WDW-1 (API# 30-015-27592) located in the SW/4, SE/4 of Section 31, Township 17 South, Range 28 East, NMPM, Eddy County, New Mexico. The injection well is located approximately 11 miles East-Southeast of Artesia on Hwy-82 from Hwy-285 and about 1 mile south on Hilltop Road. Oil field exempt and non-exempt non-hazardous industrial waste will be transported about 11 miles underground from the Navajo-Artesia Refinery located

at 501 E. Main Street, Artesia, NM via a 6 inch dia. pipeline to WDW-1 for disposal into the Wolfcamp, Cisco, and Canyon Formations in the injection interval from 7,924 to 8,476 feet (depth below ground level). The total dissolved solids concentration of the injection zone ranges from 13,000 mg/l to 119,909 mg/l. The injection rate will not exceed 500 gpm at a maximum injection pressure of 1,580 psig. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 100 feet below the ground surface with a total dissolved solids concentration of 100 to 1,535 mg/L. The discharge plan addresses operation, monitoring, associ-

ated surface facilities, and provides a contingency plan in the event of accidental spills, leaks, and other accidental discharges in order to protect fresh water.

(I-008-1) Navajo Refining Company, Darrell Moore, Environmental Manager for Water and Waste, 501 East Main Street, P.O. Box Drawer 159, Artesia New Mexico 88211-0159, has submitted an application for a Class I Injection Well Discharge Permit (UIC-CLI-008-1) for injection well WDW-2 (API# 30-015-20894) located in the SW/4, NW/4 of Section 12, Township 18 South, Range 27 East, NMPM, Eddy County, New Mexico. The injection well is located approximately 10.5 miles East-Southeast of Artesia on Hwy-82 from Hwy-285 and about 3.3 miles south on Hilltop Road. Oil field exempt and non-exempt non-hazardous industrial waste will be transported about 10.5 miles underground from the Navajo-Artesia Refinery located at 501 E. Main Street, Artesia, NM via a 6 inch dia. pipeline to WDW-2 for disposal into the Wolfcamp, Cisco, and Canyon Formations in the injection interval from 7,570 to 8,399 feet (depth below ground level). The total dissolved solids concentration of the injection zone ranges from 13,000 mg/l to 119,909 mg/l. The injection rate will not exceed 500 gpm at a maximum injection pressure of 1,510 psig. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 100 feet below the ground surface with a total dissolved solids concentration of 100 to 1,535 mg/l. The discharge plan addresses well operation, monitoring, associated surface facilities, and provides a contingency plan in the event of accidental spills, leaks, and other accidental discharges in order to protect fresh water.

The NMOCD has determined that the application is administratively complete and has prepared a draft permit. The NMOCD will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons

who wish to receive future notices. Persons interested in obtaining further information, submitting comments or requesting to be on a facility-specific mailing list for future notices may contact the Environmental Bureau Chief of the Oil Conservation Division at the address given above. The administrative completeness determination and draft permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday, or may also be viewed at the NMOCD web site <http://www.emnrd.state.nm.us/ocd/>. Persons interested in obtaining a copy of the application and draft permit may contact the NMOCD at the address given above. Prior to ruling on any proposed discharge permit or major modification, the Director shall allow a period of at least thirty (30) days after the date of publication of this notice, during which interested persons may submit comments or request that NMOCD hold a public hearing. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines that there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed permit based on in-

formation available, including all comments received. If a public hearing is held, the director will approve or disapprove the proposed permit based on information in the permit application and information submitted at the hearing.

Para obtener más información sobre esta solicitud en español, sírvase comunicarse por favor con New Mexico Energy, Minerals and Natural Resources Department (Depto. Del Energía, Minerales y Recursos Naturales de Nuevo México) Oil Conservation Division (Depto. Conservación Del Petróleo), 1220 South St. Francis Drive, Santa Fe, New Mexico (Contacto: Dorothy Phillips, 505-476-3461)

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 15th day of July 2009.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

SEAL  
Mark Fesmire, Director  
Legal #87680  
Pub. July 22, 2009