

Mr. Barry Holman  
08/16/05  
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Final Draft  
Giant, Bloomfield  
 **ENTERED**

August 12, 2005

Mr. Randy Schmaltz  
Environmental Manager  
San Juan Refining Company  
P.O. Box 159  
Bloomfield, New Mexico 87413

Re: Discharge Permit GW-01  
Giant Bloomfield Refinery

Dear Mr. Schmaltz:

The groundwater discharge permit for the Giant Bloomfield Refinery GW-01 operated by San Juan Refining Company located in the NW/4 NE/4 and the S/2 NW/4 and the N/2 NE/4 SE/4 OF Section 27, and the S/2 NW/4 and the N/2 NW/4 SW/4 and the SE/4 NW/4 SW/4 and the NE/4 SW/4 of Section 26, Township 29 North, Range 11 West, NMPM, San Juan County, New Mexico, **is hereby approved** under the conditions contained in the enclosed attachment. 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.**

The original discharge permit was approved on June 05, 1978 and subsequently renewed on June 07, 1984, November 02, 1989, February 04, 1992, May 24, 1994, April 19, 2000 with an expiration date of June 07, 2004. OCD approved a change of ownership on January 29, 1996 and approved a modification on November 19, 1996. The discharge permit renewal application dated May 27, 2004 and amended applications dated July 15, 2005 and August 12, 2005 submitted pursuant to Section 3106 of the New Mexico Water Quality Control Commission (WQCC) Regulations also includes all earlier applications and all conditions later placed on those approvals.

The discharge permit is renewed pursuant to Section 3109.C. Please note Section 3109.G., which provides for possible future amendment of the permit. Please be advised that approval of this permit does not relieve San Juan Refining Company of liability should operations result in pollution of surface or ground waters, or the environment.

Please be advised that all exposed pits, including lined pits and open top tanks (exceeding 16 feet in diameter) shall be screened, netted, or otherwise rendered nonhazardous to wildlife including migratory birds.

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Please note that Section 3104. of the regulations requires that "when a permit has been approved, discharges must be consistent with the terms and conditions of the permit." Pursuant to Section 3107.C., San Juan Refining Company is required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume. Pursuant to Section 3109.H.4., this approval is for a period of five years. **This approval will expire June 07, 2009** and an application for renewal should be submitted in ample time before that date. Pursuant to Section 3106.F. of the regulations, 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. It should be noted that all discharge permit facilities will be required to submit permits for, or the results of, an underground drainage testing program as a requirement for discharge permit renewal.

The discharge permit application for the Giant Bloomfield Refinery is subject to the WQCC Regulation 3114. Every billable facility submitting a discharge permit will be assessed a fee equal to the filing fee of \$100 plus a flat fee of \$8400.00 for an oil refinery. The OCD has received the \$100.00 filing fee. The flat fee of \$8400.00 may be paid in a single payment due on the date of the discharge permit approval or in five equal installments over the expected duration of the discharge permit. Installment payments shall be remitted yearly, with the first installment due on the date of the discharge permit approval and subsequent installments due on this date of each calendar year.

**Please make all checks payable to: Water Quality Management Fund  
C/o: Oil Conservation Division  
1220 South Saint Francis Drive  
Santa Fe, New Mexico 87505.**

If you have any questions, please contact Wayne Price of my staff at (505-476-3487) or E-mail WPRICE@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 review.

Sincerely,

Roger C. Anderson  
Environmental Bureau Chief  
RCA/lwp  
Attachments-1  
xc: OCD Aztec Office

**ATTACHMENT TO THE DISCHARGE PERMIT GW-01 APPROVAL**

**Giant Bloomfield Refinery (GW-01)**  
**DISCHARGE PERMIT APPROVAL CONDITIONS**  
**August 12, 2005**

1. Payment of Discharge Permit Fees: The \$100.00 filing fee has been received by OCD. The \$8400.00 flat fee shall be submitted upon receipt of this approval. The required flat fee may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the permit, with the first payment due upon receipt of this approval.
2. Commitments: San Juan Refining Company will abide by all commitments submitted in the discharge permit renewal application dated May 27, 2004 and the amended submittals dated July 15, and August 12, 2005 and these conditions for approval.
3. North and South Double-Lined Waste Water Evaporation Ponds: A minimum freeboard will be maintained in the ponds so that no over topping of wastewater occurs. Any repairs or modifications to the pond liners and/or leak detection systems must receive prior OCD approval. Leaks and releases shall be reported pursuant to Item 15. (Spill Reporting) of these conditions.

Special Note: Giant shall maintain an action plan to control and/or eliminate discharges from these evaporation ponds in order to protect public health and the Environment. Any time this plan is implemented Giant shall Notify OCD within 24 hours.

4. North and South Double-Lined Waste Oily Water Treatment Ponds: A minimum freeboard will be maintained in the ponds so that no over topping of wastewater occurs. Any repairs or modifications to the pond liners and/or leak detection systems must receive prior OCD approval. Leaks and releases shall be reported pursuant to Item 15. (Spill Reporting) of these conditions.
5. Leak Detection Monitor Wells: All leak detection monitor wells must be inspected for fluids monthly. Records will be maintained to include quantity of fluid measured, date of inspection, and name of inspector. Any fluids found must be reported to the NMOCD Santa Fe Environmental Bureau and the appropriate District office within 24 hours of discovery.
6. Drum Storage: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums should be stored on their sides with the bungs in place and lined up on a horizontal plan. Chemicals in other containers such as sacks or buckets must also be stored on an impermeable pad with curbing.
7. Process Areas: All process and maintenance areas which show evidence that leaks and

spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.

8. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities or modifications to existing facilities must place the tank on an impermeable type pad within the berm.
9. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.
10. Labeling: All tanks, drums, and other containers should be clearly numbered or labeled to identify their contents and other emergency information necessary if the tank were to rupture, spill, or ignite.
11. Below Grade Tanks/Sumps/Pits/Ponds: All below grade tanks, sumps, pits and ponds must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design, unless approved otherwise. All below grade tanks, sumps and pits must be tested annually or as specified below (see additional conditions), except systems that have secondary containment with leak detection. These systems with leak detection shall have a monthly inspection of the leak detection to determine if the primary containment is leaking. Groundwater infiltration or other fluids collected in secondary containment that are not contributed to primary leakage, will be monitor and only reported if significant change occurs. Results of tests and inspections shall be maintained at the facility covered by this discharge plan and available for NMOCD inspection. Any system found to be leaking shall be reported pursuant to Item # 15. Permit holders may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing.

Additional Conditions: Giant shall maintain a spreadsheet that contains all single lined underground tanks/sumps/pits. Each device or system shall have an identification number, drawing reference, date installed, test dates, test method, pass/fail/repair information with signature, and investigation results if applicable. Giant shall test at a minimum 20% of the total below grade devices each year. Giant will complete and maintain this spreadsheet on site no later than August 1, 2006.

12. Underground Process/Wastewater Lines: All underground process/wastewater pipelines must be approved by the OCD prior to installation and must be tested to demonstrate their mechanical integrity every five (5) years. Results of such tests shall be maintained at the facility covered by this discharge plan and available for NMOCD inspection. Permit holders may propose various methods for testing such

as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing.

Additional Conditions: Giant shall maintain a spreadsheet that contains all underground process and wastewater lines. Each line shall have an identification number, drawing reference, date installed, test dates, test method, pass/fail/repair information with signature, and investigation results if applicable. Giant shall test at a minimum 20% of the underground process/wastewater pipelines each year. . Giant will complete and maintain this spreadsheet on site no later than August 1, 2006.

13. Class V Wells: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be approved for construction and/or operation unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD regulated facilities, which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.
14. Housekeeping: All systems designed for spill collection/prevention, and leak detection will be inspected at least monthly to ensure proper operation and to prevent over topping or system failure. All spill collection and/or secondary containment devices will be emptied of fluids within 48 hours of discovery. A record of inspection will be retained on site for a period of five years.
15. Spill Reporting: All spills/releases shall be reported pursuant to OCD Rule 116. and WQCC 1203. to the OCD Aztec District Office.
16. Waste Disposal: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge permit will be approved by OCD on a case-by-case basis.

Rule 712 Waste: Pursuant to Rule 712, disposal of certain non-domestic waste is allowed at solid waste facilities permitted by the New Mexico Environment Department as long as the waste stream is identified in the discharge permit, and existing process knowledge of the waste stream does not change without notification to the Oil Conservation Division.

17. OCD Inspections: Additional requirements may be placed on the facility based upon results from OCD inspections.
18. Storm Water: Stormwater runoff plans and controls shall be maintained. As a result of operations if any water contaminant that exceeds the WQCC standards listed in 20 NMAC 6.2.3101 is discharged in any stormwater run-off then immediate corrective actions shall be taken to stop the discharge. OCD shall be notified within 24 hours of discovery and the permit shall be modified within 15 days and submitted for OCD approval.
19. Vadose Zone and Water Pollution: The previously submitted investigation(s) and remediation plans were submitted pursuant to the discharge permit and all future discoveries of contamination will be addressed through the discharge permit.
  1. Giant shall submit a comprehensive groundwater remediation and monitoring plan, including a San Juan River protection plan for OCD approval by November 01, 2005.
  2. An annual groundwater report will be submitted to the OCD by April 15, of each year. The annual report will contain the following information for all recovery and monitoring systems such as, but not limited to; all on and off-site recovery and monitoring wells, Hammond ditch French drain system, including all outfalls, the new barrier wall recovery and monitoring wells, the river terrace recovery, remediation and monitoring wells and any other wells deemed to be monitored by OCD.
    - A. A description of the monitoring and remediation activities, which occurred during the year including conclusions and recommendations.
    - B. Summary tables listing laboratory analytic results, of all water quality sampling for each monitoring point and plots of concentration vs. time for contaminants of concern from each monitoring point. Any WQCC constituent found to exceed the groundwater standard shall be highlighted and noted in the annual report. Copies of the most recent years laboratory analytical data sheets will also be submitted.
    - C. An annual water table potentiometric elevation map using the water table elevation of the ground water in all refinery monitor wells. A corrected water table elevation shall be determined for all wells containing phase-separated hydrocarbons. This map shall show well locations, pertinent site features, and the direction and magnitude of the hydraulic gradient.
    - D. Plots of water table elevation vs. time for each ground water monitoring point.

- E. An annual product thickness map based on the thickness of free phase product on ground water in all refinery recovery wells. This map shall include isopleth lines for products and contaminants of concern.
          - F. Estimate or measure the volume of product recovered in the recovery wells during each quarter and the total recovered to date.
  3. Giant shall notify the OCD Santa Fe and local district office at least 2 weeks in advance of all scheduled activities such that the OCD has the opportunity to witness the events and split samples. For large facilities, i.e. refineries, an annual notification will suffice.
  4. Giant shall notify the NMOCD within 15 days of the discovery of separated-phase hydrocarbons or the exceedance of a WQCC standard in any monitor well where separate-phase hydrocarbons were not present or where contaminant concentrations did not exceed WQCC standards during the preceding monitoring event.
20. Annual Report: On an annual basis due April 15, Giant will submit a formal report to the OCD on the past year's activities. The report will include the following at a minimum:
1. A summary of all major refinery activities or events.
  2. As required in item 19.2. above.
  3. Summary of all waste and wastewater disposed of, sold, or treated on-site, including an updated refinery wastewater flow sheet.
  4. Summary of the sump and underground wastewater lines tested.
  5. Summary of all leaks, spills and releases and corrective actions taken.
  6. Summary of discovery of new groundwater contamination. This should include recommendations for investigation and remediation.
  7. Summary of all EPA/NMED RCRA activity.
  8. Electronic filing: OCD would like to encourage Giant to file this report in an acceptable electronic format.
21. Active Landfill: San Juan Refining Company shall submit by December 01, 2005 for OCD approval an operating and closure plan for the active landfill located east of the main

refinery complex.

22. In-Active Landfill: A closure plan for the in-active landfill located near monitor well #8 shall be submitted by December 01, 2005. The plan shall demonstrate how San Juan Refining Company permits to close the landfill in order that public health or the environment will not be adversely impacted in the foreseeable future.
23. Transfer of Discharge Permit: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge permit. A written commitment to comply with the terms and conditions of the previously approved discharge permit must be submitted by the purchaser and approved by the OCD prior to transfer.
24. Closure: The OCD will be notified when operations of the facility are discontinued for a period in excess of six months. Prior to closure of the facility a closure permit will be submitted for approval by the Director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.
25. Certification: **Giant Refining Company** by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. **Giant Refining Company** further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.


Conditions accepted by: **Giant Refining Company**

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


\_\_\_\_\_  
Date  
Company Representative- Sign

Title \_\_\_\_\_



 Attachments can contain viruses that may harm your computer. Attachments may not display correctly.

**Monzeglio, Hope, NMENV**

**From:** Price, Wayne, EMNRD **Sent:** Mon 8/15/2005 4:09 PM  
**To:** rschmaltz@giant.com  
**Cc:** Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV; Foust, Denny, EMNRD  
**Subject:** Final Discharge Permit Bloomfield refinery GW-01  
**Attachments:**  DP Final app\_2005.doc(84KB)

Went out today

Wayne Price-Senior Environmental Engr.  
Oil Conservation Division  
1220 S. Saint Francis  
Santa Fe, NM 87505  
E-mail [wayne.price@state.nm.us](mailto:wayne.price@state.nm.us)  
Tele: 505-476-3487  
Fax: 505-4763462

**Monzeglio, Hope, NMENV**

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**From:** Price, Wayne, EMNRD  
**To:** rschmaltz@giant.com  
**Cc:** Monzeglio, Hope, NMENV  
**Subject:** Giant Bloomfield Discharge Plan  
**Attachments:**

**Sent:** Mon 8/1/2005 11:49 AM

Dear Randy:

After reviewing the submitted plan I have a few comments and questions:

1. The wastewater flow diagram does not contain a flow process line(s) for the recovered water and products. Please include in diagram.
2. The previous approved plan April 19, 2000 required a closure plan for the old-inactive landfill and a operating plan for the new one. I cannot find anything in the file. Did Giant construct a pond in this area?
3. OCD understands that the evaporations may have lost integrity. Please provide OCD an up-date on these ponds.

Wayne Price-Senior Environmental Engr.  
Oil Conservation Division  
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Santa Fe, NM 87505  
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