BW - __999__

CLASS II HYDROCARBON STORAGE WELL (GW-7)

BRINE WELL WORK GROUP

3/26/09 - Present

New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson
Governor

Joanna Prukop
Cabinet Secretary
Reese Fullerton
Deputy Cabinet Secretary

Mark Fesmire
Division Director
Oil Conservation Division

May 23, 2008

Mr. Ron Weaver, Product Terminals Manager
Western Refining Company, L.P.
111 County Road 4990
Bloomfield, New Mexico 87413

Re: Discharge Permit Renewal
Jal LPG Storage Facility (GW-007)
UIC Class II LPG Storage Wells: Well #1 30-025-35954; Well #2 30-025-35955; Well #3 30-025-35956; and Well #4 30-025-35957.
Lea County, New Mexico

Dear Mr. Weaver:

Pursuant to all applicable parts of the Water Quality Control Commission (WQCC) Regulations 20.6.2 NMAC and more specifically 20.6.2.3104 - 20.6.2.3999 discharge permit, and 20.6.2.5000-.5299 Underground Injection Control, the Oil Conservation Division (OCD) hereby approves the discharge permit and authorizes the operation, injection, and LPG storage for the **Western Refining, L.P.**, **Jal LPG Storage Facility** (GW-007) located in the SW/4 of Section 32, Township 23 South, and Range37 East; SE/4 of Section 31, Township 23 South, and Range 37 East; and W/2 of Section 5, Township 24 South, and Range 37 East NMPM, Lea County, under the conditions specified in the enclosed **Attachment To The 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 owner/operator of responsibility if operations result in pollution of surface water, ground water or the environment. Nor does approval of the permit relieve the owner/operator of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If you have any questions, please contact Carl Chavez of my staff at (505-476-3491) or E-mail carlj.chavez@sate.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,

For Wayne Price
Environmental Bureau Chief

LWP/cc
Attachments-1
xc: OCD District Office

ATTACHMENT TO THE DISCHARGE PERMIT APPROVAL CONDITIONS

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. The flat fee for a UIC Class II gas (LPG) storage facility is $1700.00. Please submit this amount along with the signed certification in approximately 30 days. Checks should be made out to the New Mexico Water Quality Management Fund.

2. **Permit Expiration, 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 December 29, 2012** 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, NMSA1978} 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 owner/operator 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.

4. **Owner/Operator Commitments:** The owner/operator shall abide by all commitments submitted in its August 29, 2007 discharge permit application, including attachments and subsequent amendments and these conditions for approval. Permit applications that reference previously approved plans on file with the division shall be incorporated in this permit and the owner/operator shall abide by all previous commitments of such plans and these conditions for approval.

5. **Modifications:** WQCC Regulation 20.6.2.3107.C and 20.6.2.3109 NMAC addresses possible future modifications of a permit. The owner/operator (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 being or will be exceeded, or if a toxic pollutant 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:** The owner/operator shall dispose of all wastes at an OCD-approved facility. Only oil field RCRA-exempt wastes may be disposed of by injection in a Class II Salt Water Disposal Well. Any disposal regardless of waste type by injection into a UIC Class II LPG Storage Well is prohibited and shall be a violation of the permit. RCRA non-

hazardous, 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 owner/operator 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 owner/operator shall not store oil field waste on-site for more than 180 days unless approved by the OCD.

7. **Drum Storage:** The owner/operator must store all drums, including empty drums, containing materials other than fresh water on an impermeable pad with curbing. The owner/operator must store empty drums on their sides with the bungs in place and lined up on a horizontal plane. The owner/operator 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 owner/operator 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 owner/operator 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 owner/operator 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 owner/operator shall clearly label all tanks, drums, and containers to identify their contents and other emergency notification information. The owner/operator 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 owner/operator 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 owner/operator shall retrofit all existing systems without secondary containment and leak detection before discharge permit renewal.

C. The owner/operator 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 owner/operator shall maintain the results of tests and inspections at the facility covered by this discharge permit and available for OCD inspection. The owner/operator shall report the discovery of any system which is found to be leaking or has lost integrity to the OCD within 15 days. The owner/operator 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 owner/operator shall notify the OCD at least 72 hours prior to all testing.

12. Underground Process/Wastewater Lines:

A. The owner/operator 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 owner/operator may use other methods for testing if approved by the OCD.

B. The owner/operator 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 owner/operator shall report any leaks or loss of integrity to the OCD within 15 days of discovery. The owner/operator shall maintain the results of all tests at the facility covered by this discharge permit and they shall be available for OCD inspection. The owner/operator shall notify the OCD at least 72 hours prior to all testing.

13. Class V Wells: The owner/operator 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 injection 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 owner/operator 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 owner/operator shall maintain all records at the facility and available for OCD inspection.

15. Spill Reporting: The owner/operator 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 owner/operator 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 OCD inspections.

17. Storm Water: The owner/operator shall implement and maintain run-on and runoff plans and controls. The owner/operator 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 owner/operator 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 owner/operator 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 and approved herein. ***An unauthorized discharge is a violation of this permit.***

19. Vadose Zone and Water Pollution: The owner/operator 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 owner/operator 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:

A. The operator shall develop, implement and maintain a storage facility safety plan. The plan shall include current emergency response procedures, provisions to provide security against unauthorized activity, and any current gas release detection and prevention measures utilized by the facility. The emergency response procedures for the storage facility shall include contingency plans for gas storage well leaks and loss of containment from gas storage wells or the gas storage reservoir. The emergency

response procedures shall also identify public emergency response agencies to be notified for the protection of public safety. Copies of the plan shall be available at the storage facility and the nearest operational office of the operator or the facility. The operator shall keep the plan current or updated throughout its operations.

B. The Well No. 3 propane release discovery on March 29, 2008 and documented on Form C-141 dated May 20,2008 shall be investigated. A work plan for OCD approval shall be submitted within 90 days of permit issuance to investigate the release.

C. The closure of the Classifier and associated equipment shall be completed on or before the expiration date of this permit.

21. LPG Storage Well(s) Identification, Operation, Monitoring, Bonding and Reporting.

A. Well Identification: API #s: Well #1 30-025-35954; Well #2 30-025-35955; Well #3 30-025-35956; and Well #4 30-025-35957.

B. Well Work Over Operations: OCD approval shall 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. Production Method: Brine water shall be injected down the tubing to the base of the cavern to push or recover LPG upward through the casing. LPG storage shall be increased by withdrawing brine water from the tubing while injecting LPG down the casing. Brine water will be stored at ground level in two brine storage ponds. Fresh water injection down the tubing to dissolve or clear salt from the tubing for a maximum period of 24 hours shall be allowed when the structural stability of the cavern will not be compromised. Alternative cleaning methods must be approved by the OCD.

D. Well Pressure Limits: The maximum operating surface injection and/or test pressure measured at the wellhead shall not exceed:

LPG Well #1: 850 psig unless otherwise approved.
LPG Well #2: 850 psig unless otherwise approved.
LPG Well #3: 850 psig unless otherwise approved.
LPG Well #4: 850 psig unless otherwise approved.

The operator shall have a working pressure limiting device or controls to prevent over pressure. Any pressure that causes new fractures or propagate existing fractures or causes damage to the system shall be reported to OCD within 24 hours of discovery.

E. Mechanical Integrity Testing (MIT): Conduct an annual open to formation pressure test by pressuring up the formation with approved fluids or gas to a minimum of 500 psig measured on the surface casing for four hours. However, no operator may

exceed test pressures that may cause formation fracturing (see item 21.D above) or system failure. Systems requiring test pressures less than 500 psig or methods that use testing media other than fluids, i.e., gas, must be approved by OCD prior to testing. In accordance with EPA UIC Well requirements, at least once every five years and during well work-overs, the salt cavern formation shall be isolated from the casing/tubing annuals and the casing pressure tested at 500 psig for 30 minutes. All pressure tests must be performed per the schedule shown below and witnessed by OCD unless otherwise approved.

MIT Testing Schedule:

Well No. 1	4/25/2013	Well No. 1 Nitrogen/Brine Interface Test* (Pass: Allowable Loss < 0.11 bbl./hr.)
Well No. 2	3/14/2013	Same as Well No. 1 above.
Well No. 3	8/19/2012	Same as Well No. 1 above.
Well No. 4	8/19/2012	Same as Well No. 1 above.
Above Wells	Work-over	EPA 5 Yr.**

Notes:

* The owner/operator shall perform a 72 hour Nitrogen/Brine Interface Mechanical Integrity Test – Internal (casing) & External (cavern) a minimum of every 5 years.
** An EPA 5 Yr. MIT 30 min. @ minimum 500 psig casing test only (set packer above casing shoe to isolate formation from tubing/annuals- Pass: +/- 10% of start pressure) shall be performed immediately after any well work-over.

F. Capacity/ Cavity Configuration and Subsidence Survey: The operator shall provide information on the size and extent of the solution cavern and geologic/engineering data demonstrating that continued brine extraction will not cause surface subsidence, collapse or damage to property, or become a threat to public health and the environment. This information shall be supplied in each annual report. A subsidence monitoring work plan shall be submitted by the operator within 90 days of permit issuance to perform additional well surveys, test, and install subsidence monitoring in order to demonstrate the integrity of the system. If the operator cannot demonstrate the integrity of the system to the satisfaction of the Division then the operator may be required to shut-down, close the site and properly plug and abandoned the well.

Any subsidence must be reported within 24 hours of discovery.

G. Production/Injection Volumes: The volumes of fluids injected (produced brine) vs. LPG will be recorded monthly (C-131A) and submitted to the OCD Santa Fe Office in the annual report (C-131B).

H. Analysis of Injection Fluid or Brine: Provide an analysis of the injection fluid with each annual report. Analysis will be for General Chemistry (method 40 CFR 136.3) using EPA methods.

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 1/2 mile from any EPA Class II LPG Storage Well.

J. Loss of Mechanical Integrity: The operator shall report within 24 hours of discovery of any failure of the casing or tubing 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.

K. Bonding or Financial Assurance: The operator shall maintain at a minimum, a one well plugging bond (OCD Form B-1) for each UIC Class II LPG Storage Well in the amount specified under the Oil and Gas Act, pursuant to OCD rules and regulations.

L. 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 LPG Storage Well Report, name of operator, GW permit #, API# of well(s), date of report, and person submitting report.
2. Brief summary of LPG Storage Wells operations including description and reason for any remedial or major work on the well. Copy of 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. open to formation or casing test.
6. Brief explanation describing deviations from normal production methods.
7. A copy of any leaks and spills reports.
8. If applicable, results of any groundwater monitoring.
9. Information required from cavity/subsidence 21.F. above.
10. An Area of Review (AOR) summary.
11. Sign-off requirements pursuant to WQCC Subsection G 20.6.2.5101.

22. **Transfer of Discharge Permit:** Pursuant to WQCC 20.6.2.5101.H the owner/operator and new owner/operator shall provide written notice of any transfer of the permit. Both parties shall sign the notice 30 days prior to any transfer of ownership, control or possession of a facility

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 LPG Storage Well operations until proper bonding or financial assurance is in place and approved by the division. OCD reserves the right to require a modification of the permit during transfer.

23. Closure Plan and Financial Assurance: The owner/operator 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 Form C-103 for plugging and abandonment of the well(s), modification plan, and/or provide adequate financial assurance. Closure and waste disposal shall be in accordance with the statutes, rules and regulations in effect at the time of closure.

24. Certification: Western Refining, L.P., by the officer whose signature appears below, accepts this permit and agrees to comply with all submitted commitments, including these terms and conditions contained herein. **Western Refining, L.P.** further acknowledges that the OCD may, for good cause shown, as necessary to protect fresh water, public health, safety, and the environment, change the conditions and requirements of this permit administratively.

Conditions accepted by: "I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment."

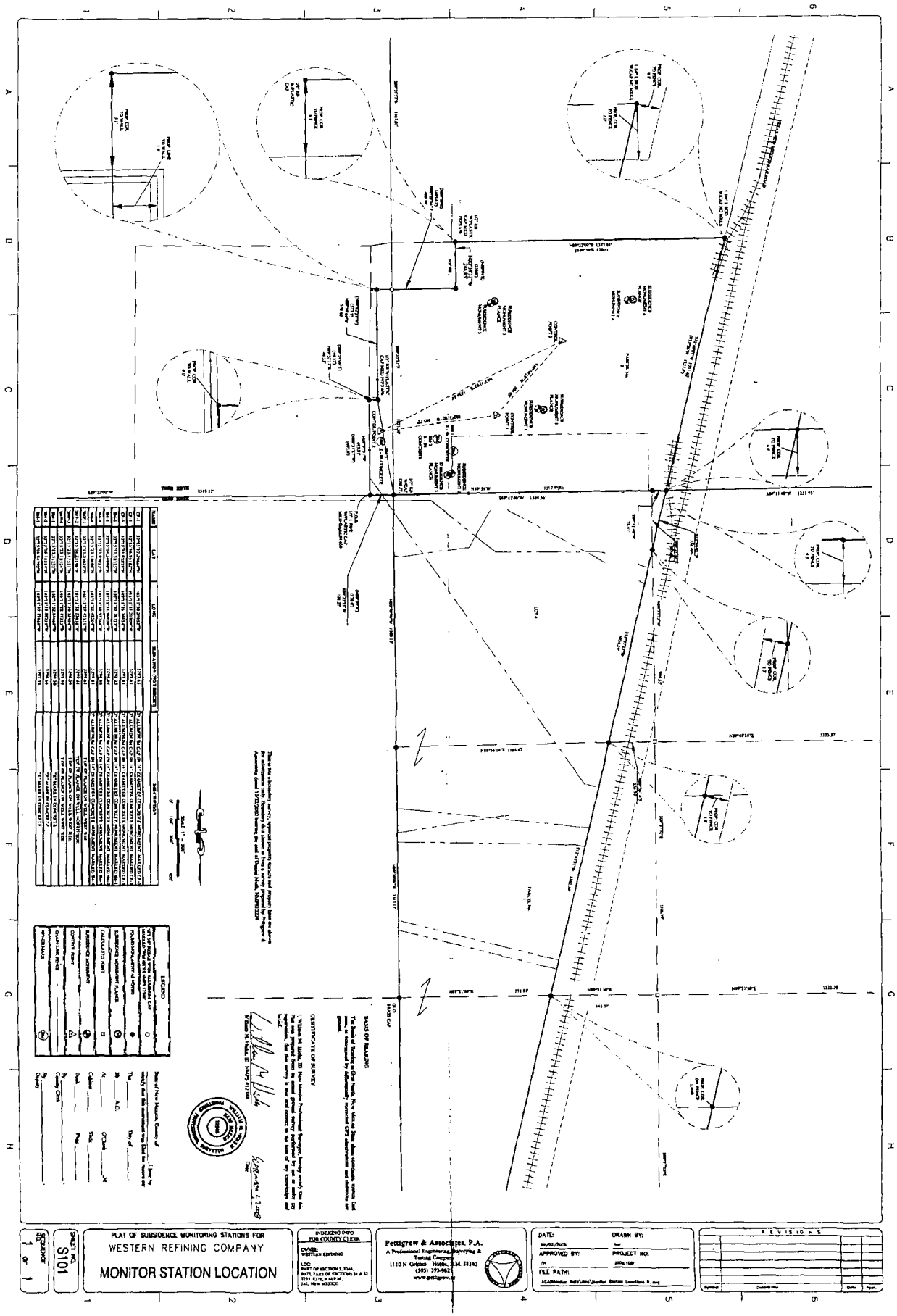
Western Refining Co.
Company Name-print name above

Ron Weaver
Company Representative- print name

Ron Weaver
Company Representative- signature

Title: Products Terminals Mgr

Date: 6/10/08



PLAT OF SUBSIDENCE MONITORING STATIONS FOR
WESTERN REFINING COMPANY

MONITOR STATION LOCATION

SHEET NO.
S101

SHEET 1 OF 1

INDEXING DATA FOR COUNTY CLERK
OWNER: WESTERN REFINING
LOC: PART OF SECTION 5, T14S, R17E, PART OF SECTIONS 31 & 32, T13S, R17E, N.M.P.M., [illegible]

Pettigrew & Associates, P.A.
A Professional Engineering, Surveying & Mapping Company
1110 N Grimes Hobbs, N.M. 88240
(505) 393-9621
www.pettigrew.us

DATE: [illegible]
DRAWN BY: [illegible]
APPROVED BY:
PROJECT NO:
FILE PATH:

REVISIONS

Symbol	Description	Date	Appr.

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-103
May 27, 2004

WELL API NO. 30-025-35954

5. Indicate Type of Lease STATE X FEE ☐

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name: State LPG Storage Well

1. Type of Well: Oil Well ☐ Gas Well X Other LPG Storage

8. Well Number 1

2. Name of Operator: Western Refining Company, LP

9. OGRID Number 248440

3. Address of Operator: PO Box 1345 Jal, New Mexico 88252

10. Pool name or Wildcat Salado

4. Well Location
Unit Letter M : 450 feet from the South line and 780 feet from the West line
Section 32 Township 23S Range 37E NMPM Lea County

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*

Pit or Below-grade Tank Application ☐ or Closure ☐
Pit type Depth to Groundwater Distance from nearest fresh water well Distance from nearest surface water
Pit Liner Thickness: mil Below-Grade Tank: Volume bbls; Construction Material

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	X	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
OTHER:	☐			OTHER:			☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

The following activities were completed:

1-13-09
Perforated tubing with 80 holes from 1800 ft to 1804 ft.

1-17-09
Perforated tubing with 96 holes from 1796 ft. to 1800 ft.

Well one was put into service after perforating tubing on January 13, 2009. After operating well 1 for the next several days, it was determined that well 1 was not taking enough brine water.

We moved up hole another 4 feet and perforated the tubing between 1796 and 1800 feet. The well was put into service and is currently working within its normal parameters.

Well Diameter

Sonar to 1750 FT. = 29,049.5 Barrels per cubic ft.

Overfill Cavern (Controlled) 6-26-01= 1796 FT. 201,013 barrel per cubic ft.

201,013-29,049.5= 171,963.5 barrels in 46 feet of height.

171,963.5/46 ft= 3,738.34 barrels per cubic ft.

3,738.34 * 5.615= 20,990.779 cubic feet per foot.

Diameter Calculation

Volume/.785=radius

20,990.7791/.785= sqrt. (26,739.846)=163.523 ft.

Diameter= **81.76 ft.**

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.**

SIGNATURE_____ TITLE Manager DATE 1-27-09

Type or print name Ken Parker E-mail address: ken.parker@wnr.com Telephone No. 575-395-2632

For State Use Only

APPROVED BY:_____ TITLE_____ DATE_____

Conditions of Approval (if any):