



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**GARY E. JOHNSON**  
Governor  
**Jennifer A. Salisbury**  
Cabinet Secretary

**Lori Wrotenberg**  
Director  
Oil Conservation Division

ADMINISTRATIVE ORDER NO. PMX-213

***APPLICATION OF TEXACO EXPLORATION AND PRODUCTION, INC. TO  
EXPAND ITS PRESSURE MAINTENANCE PROJECT IN THE NORTH VACUUM-  
ABO POOL IN LEA COUNTY, NEW MEXICO***

**ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION DIVISION**

Under the provisions of Division Order No. R-6857, as amended, Texaco Exploration and Production, Inc. has made application to the Division on April 11, 2001 for permission to expand its North Vacuum Abo West Unit Pressure Maintenance Project in the North Vacuum-Abo Pool in Lea County, New Mexico.

**THE DIVISION DIRECTOR FINDS THAT:**

- (1) The application has been filed in due form.
- (2) Satisfactory information has been provided that all offset operators have been duly notified of the application.
- (3) No objection has been received within the waiting period as prescribed by Rule 701(B).
- (4) The proposed injection wells are eligible for conversion to injection under the terms of Rule 701.
- (5) The proposed expansion of the above referenced pressure maintenance project will not cause waste nor impair correlative rights.
- (6) The application should be approved.

**IT IS THEREFORE ORDERED THAT:**

The applicant, Texaco Exploration and Production, Inc., be and the same is hereby authorized to inject water into the Abo formation through the gross interval from

approximately 8,500 feet to 8,873 feet through 2 3/8-inch plastic lined tubing set in a packer located approximately 100 feet above the uppermost openhole horizontal lateral or uppermost injection perforations in the following described vertical and horizontal wells for purposes of pressure maintenance to wit:

**North Vacuum Abo West Unit No. 1**  
**(API No. 30-025-25652)**

Surface Location: 460' FNL & 660' FWL, Unit D, Section 15,  
Township 17 South, Range 34 East, NMPM  
Injection Interval: 8,800'-8,833'  
Maximum Injection Pressure: 1760 psig

**North Vacuum Abo West Unit No. 3**  
**(API No. 30-025-24495)**

Surface Location: 1980' FSL & 660' FWL, Unit L, Section 15,  
Bottomhole Location of Horizontal Lateral: 3183' FSL & 1863' FWL, Unit F, Section 15,  
Township 17 South, Range 34 East, NMPM  
Injection Interval: 8,646'-8,873' TVD  
Maximum Injection Pressure: 1729 psig

**North Vacuum Abo West Unit No. 5**  
**(API No. 30-025-24112)**

Surface Location: 660' FNL & 660' FWL, Unit D, Section 22,  
Bottomhole Location of Horizontal Lateral: 552' FSL & 2055' FWL, Unit N, Section 15,  
Township 17 South, Range 34 East, NMPM  
Injection Interval: 8,669'- 8,852' TVD  
Maximum Injection Pressure: 1734 psig

**North Vacuum Abo West Unit No. 15**  
**(API No. 30-025-23905)**

Surface Location: 660' FNL & 660' FWL, Unit D, Section 27,  
Bottomhole Location of Upper Lateral: 1702' FNL & 439' FEL, Unit H, Section 28,  
Bottomhole Location of Lower Lateral: 540' FSL & 1769' FWL, Unit N, Section 22  
Township 17 South, Range 34 East, NMPM  
Injection Interval: 8,500'- 8,849' TVD  
Maximum Injection Pressure: 1700 psig

all located in Lea County, New Mexico.

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the injected fluid enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

Prior to commencing injection operations, the casing in each well shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

The casing-tubing annulus in each well shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing or packer.

The Director of the Division may authorize an increase in the maximum injection pressure shown above upon a proper showing by the operator that such higher pressure will not result in migration of the injected fluid from the Abo formation.

The operator shall immediately notify the supervisor of the Hobbs district office of the Division of the failure of the tubing, casing or packer in said wells and shall take such steps as may be timely and necessary to correct such failure or leakage.

The subject wells shall be governed by all provisions of Division Order No. R-6857, as amended, and Rules 702-706 of the Division Rules and Regulations not inconsistent herewith.

PROVIDED FURTHER THAT, jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh water or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the injection authority granted herein.

The injection authority for the wells granted herein, shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the wells, provided however, the Division, upon written request by the operator, may grant an extension thereof for good cause shown.

DONE at Santa Fe, New Mexico, on this 20th day of July, 2001.

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*Texaco Exploration and Production, Inc.*  
*July 20, 2001*  
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STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION



LORI WROTENBERY,  
Director

SEAL

LW/DRC

cc: Oil Conservation Division - Hobbs