

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

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*ADMINISTRATIVE ORDER NO. PMX-156*

**APPLICATION OF SHELL WESTERN E & P, INC. TO EXPAND ITS PRESSURE  
MAINTENANCE PROJECT IN THE HOBBS GRAYBURG SAN ANDRES POOL IN  
LEA COUNTY, NEW MEXICO**

**ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION DIVISION**

Under the provisions of Division Order No. R-6199, Shell Western E & P, Inc. has made application to the Division on April 13, 1990 for permission to expand its North Hobbs Grayburg San Andres Unit Pressure Maintenance Project in the Hobbs Grayburg San Andres Pool in Lea County, New Mexico.

NOW, on this 23rd day of May, 1990, 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 well is eligible for conversion to water 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.

*Administrative Order PMX-156  
Shell Western E & P, Inc.  
May 23, 1990  
Page 2*

**IT IS THEREFORE ORDERED THAT:**

The applicant, Shell Western E & P, Inc., be and the same is hereby authorized to inject water into the Grayburg San Andres formation at approximately 4060 feet to approximately 4350 feet through 2 7/8-inch plastic lined tubing set in a packer at approximately 4000 feet in the following described well for purposes of pressure maintenance to wit:

North Hobbs Unit Well No. 241  
330' FSL - 1325' FWL (Unit N)  
Section 27, Township 18 South, Range 38 East, NMPM,  
Lea County, New Mexico.

**IT IS FURTHER ORDERED THAT:**

The operator 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 surface.

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

The casing-tubing annulus 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 injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well to no more than 812 psi.

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

The operator shall notify the supervisor of the Hobbs district office of the Division of the date and time of the installation of injection equipment and of the mechanical integrity test so that the same may be inspected and witnessed.

*Administrative Order PMX-156  
Shell Western E & P, Inc.  
May 23, 1990  
Page 3*

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 well and shall take such steps as may be timely and necessary to correct such failure or leakage.

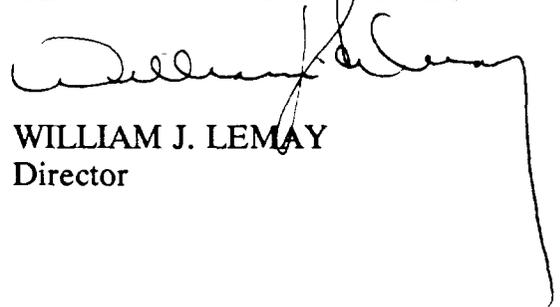
The subject well shall be governed by all provisions of Division Order No. R-6199 and Rules 701-708 of the Division Rules and Regulations not inconsistent herewith.

PROVIDED FURTHER THAT, jurisdiction of this cause is hereby retained by the Division for the entry of such further order or orders as may be deemed necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of the operator to conduct operations in a manner which will ensure the protection of fresh water or in a manner inconsistent with the requirements set forth in this order, the Division may, after notice and hearing, terminate the injection authority granted herein.

The operator shall submit monthly progress reports of the project in accordance with Rules 706 and 1115 of the Division Rules and Regulations.

Approved at Santa Fe, New Mexico, on this 23rd day of May, 1990.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY  
Director

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