



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

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GOVERNOR

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ORDER NO. PMX-155

APPLICATION OF PHILLIPS PETROLEUM COMPANY TO EXPAND ITS  
PRESSURE MAINTENANCE PROJECT IN THE VACUUM GRAYBURG SAN  
ANDRES POOL IN LEA COUNTY, NEW MEXICO

ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION DIVISION

Under the provisions of Division Order No. R-5897 and R-6856, Phillips Petroleum Company has made application to the Division on January 19, 1990 for permission to expand its East Vacuum Grayburg San Andres Unit Pressure Maintenance Project in the Vacuum Grayburg San Andres Pool in Lea County, New Mexico.

NOW, on this 13th day of February, 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/CO<sub>2</sub> 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, Phillips Petroleum Company, be and the same is hereby authorized to inject water and carbon dioxide into the San Andres formation at approximately 4486 feet to approximately 4678 feet through 2 7/8-inch plastic lined tubing set in a packer at approximately 4466 feet in the following described well for purposes of pressure maintenance to wit:

East Vacuum Grayburg San Andres Unit Well No. 011, Tract 2913  
130' FSL & 1400' FEL, (Unit O)  
Section 29, T-17 South, R-35 East, NMPM,  
Lea County, New Mexico

**IT IS FURTHER ORDERED THAT:**

The operator shall take all steps necessary to ensure that the injected water and carbon dioxide 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 during water injection to no more than 897 psi and during carbon dioxide injection, to no more than 3150 psi bottom-hole pressure.

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 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.

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-5897 and R-6856 and Rules 701-708 of the Division Rules and Regulations not inconsistent herewith.

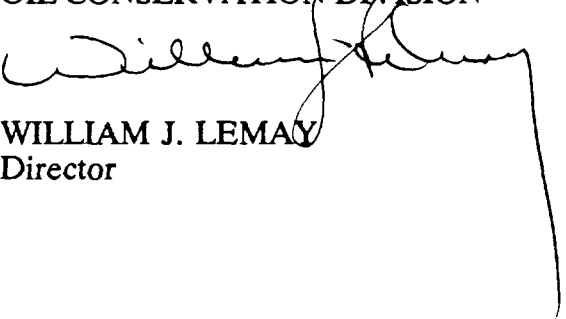
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PROVIDED FURTHER THAT, jurisdiction of this cause is hereby retained by the Division for the entry of such further order or orders as may be deemed necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure 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 13th day of February, 1990.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

A handwritten signature in dark ink, appearing to read 'William J. Lemay', is written over the printed name and title. The signature is fluid and cursive, with a long, sweeping line extending from the end of the name down towards the bottom right of the page.

WILLIAM J. LEMAY  
Director

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