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



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*ADMINISTRATIVE ORDER NO. WFX-649*

***APPLICATION OF SOCORRO PETROLEUM COMPANY TO EXPAND ITS KEEL-WEST WATERFLOOD PROJECT IN THE GRAYBURG-JACKSON POOL IN EDDY COUNTY, NEW MEXICO***

**ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION DIVISION**

Under the provisions of Division Order No. R-2268, as amended, Socorro Petroleum Company has made application to the Division on October 8, 1993 for permission to expand its Keel-West Waterflood Project in the Grayburg-Jackson Pool in Eddy 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 well is eligible for conversion to injection under the terms of Rule 701.
- (5) The proposed expansion of the above referenced Keel-West Waterflood Project will not cause waste nor impair correlative rights.
- (6) The application should be approved.

**IT IS THEREFORE ORDERED THAT:**

The applicant, Socorro Petroleum Company, be and the same is hereby authorized to inject water into the Grayburg and San Andres formations at approximately 3314 feet to approximately 4206 feet through 2 3/8-inch plastic lined tubing set in a packer at approximately 3230 feet in the following described well for purposes of secondary recovery to wit:

*H.E. West "B" Well No. 55  
1972' FSL & 2078' FWL  
Unit K, Section 3, Township 17 South, Range 31 East, NMPM,  
Eddy 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 2000 psi.

The Director of the Division may authorize an increase in injection pressure to a maximum pressure of 450 psi above formation parting 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 and 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 Artesia district office of the Division of the date and time of the installation of injection equipment and of the mechanical integrity tests so that the same may be inspected and witnessed.

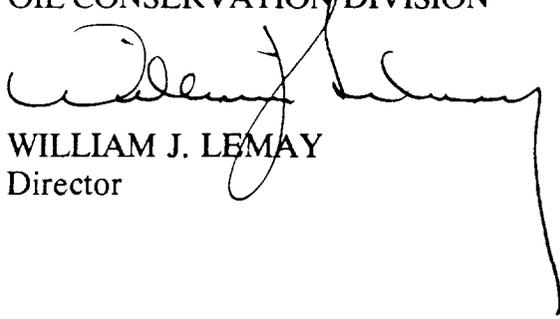
The operator shall immediately notify the supervisor of the Artesia district office of the Division of the failure of the tubing, casing or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

The subject well shall be governed by all provisions of Division Order No. R-2268, as amended, as amended and Rules 702-706 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.

DONE at Santa Fe, New Mexico, on this 25th day of October, 1993.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

  
WILLIAM J. LEMAY  
Director

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cc: Oil Conservation Division - Artesia