



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

**Mark E. Fesmire, P.E.**

Director

**Oil Conservation Division**

**ADMINISTRATIVE ORDER NO. PMX-239**

***APPLICATION OF OCCIDENTAL PERMIAN LIMITED PARTNERSHIP TO EXPAND ITS  
ENHANCED OIL TERTIARY RECOVERY 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, as amended, Occidental Permian Limited Partnership has made application to the Division on November 14, 2005 for permission to expand its North Hobbs Grayburg San Andres Unit Enhanced Oil Tertiary Recovery Project in the Hobbs Grayburg-San Andres Pool in Lea County, New Mexico.

**THE DIVISION DIRECTOR FINDS THAT:**

- (1) The application was filed in due form.
- (2) Satisfactory information was provided to demonstrate that all offset operators and surface owners were provided notice of this 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 enhanced oil tertiary recovery project will not cause waste nor impair correlative rights.

**IT IS THEREFORE ORDERED THAT:**

The applicant, Occidental Permian Limited Partnership, is hereby authorized to inject water and carbon dioxide (CO<sub>2</sub>) into the Grayburg-San Andres formation, Hobbs Grayburg-San Andres Pool, through the perforated and/or open hole interval from approximately 4,000 feet to 4,398 feet using 2-7/8-inch fiberglass-lined tubing set in a packer located at a depth of approximately 3,900 feet in the following described well for purposes of tertiary recovery to wit:

***North Hobbs Grayburg San Andres Unit Well No. 635 (API No. 30-025-37409)***  
1665' FSL & 1240' FEL (Unit I) Section 29, Township 18 South, Range 38 East;  
Injection Interval: Perforated and/or Open Hole: 4,000 feet to 4,398 feet

**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 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.

In accordance with the provisions set forth by Division Order No. R-6199-A, the subject well shall be authorized to inject water and CO<sub>2</sub> at the following maximum surface injection pressures:

1100 psig for injection of water  
1250 psig for injection of CO<sub>2</sub>

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 Hobbs Grayburg-San Andres Pool. 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 in the injection well and of the mechanical integrity test so that these operations 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-6199, 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 granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject well, 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 8th day of December, 2005.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION



MARK E. FESMIRE, P.E.  
Director

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MEF/DRC

cc: Oil Conservation Division – Hobbs  
Case File No. 12722