



# New Mexico Energy, Minerals and Natural Resources Department

**Bill Richardson**  
Governor

**Joanna Prukop**  
Cabinet Secretary  
**Reese Fullerton**  
Deputy Cabinet Secretary

**Mark Fesmire**  
Division Director  
Oil Conservation Division



Administrative Order WFX-839  
August 18, 2008  
**Corrected April 10, 2009**

APPLICATION OF XTO ENERGY, INC. TO CONVERT THE EMSU WELL NO. 643 TO INJECTION WITHIN ITS EUNICE MONUMENT SOUTH UNIT WATERFLOOD PROJECT IN THE UNICE MONUMENT GRAYBURG-SAN ANDRES POOL IN LEA COUNTY, NEW MEXICO

## ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Division Order R-7766, XTO Energy, Inc. (OGRID No. 5380) has made application to the Division for permission to add an additional injection well to its Eunice Monument South Unit Waterflood Project located within the Eunice Monument Grayburg-San Andres Pool (Pool No. 23000) in Lea County, New Mexico.

### THE DIVISION DIRECTOR FINDS THAT:

The application was filed in due form. No objections have been filed within the 20 day waiting period prescribed by Division Rule 701(C). The proposed injection well is eligible for conversion to injection under the terms of Rule 701. The operator is in compliance with Rule 40.

There are no know faults cutting through the Grayburg and San Andres which would act as a conduit for gas, oil or injection water to seep into the fresh water horizons above the injection zones in the Grayburg and San Andres. There are no known fresh water horizons below the Rustler anhydrite.

The proposed expansion of the above-referenced waterflood project will not cause waste nor impair correlative rights and should be approved.

### IT IS THEREFORE ORDERED THAT:

XTO Energy, Inc. is hereby authorized to inject water from the into the unitized interval of the Eunice Monument South Unit ("EMSU") Waterflood Project, through plastic-lined 2-3/8 inch tubing set in a packer located within 200 feet more or less of the



top of the injection interval in the following-described well for purposes of secondary recovery:

<b><u>Well Number</u></b> <b><u>API Number</u></b>	<b><u>Well Location</u></b>	<b><u>Injection</u></b> <b><u>Interval</u></b>
EMSU No. 643	1275' FWL & FEL	3848'-3936'
30-025-30512	B, S6-T21S-R36E	
Maximum Surface Injection Pressure: 1200 PSIG		

**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 pressure limiting devices which will limit the wellhead pressure to the maximum surface injection pressure described above.

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 permitted injection interval. Such proper showing shall consist of valid step-rate tests 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 all mechanical integrity tests 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-7766, 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 received prior to the one year deadline, may grant an extension thereof for good cause shown.



MARK E. FESMIRE, P.E.  
Director

MEF/tw

cc: Oil Conservation Division – Hobbs

# New Mexico Energy, Minerals and Natural Resources Department

**Bill Richardson**  
Governor

**Joanna Prukop**  
Cabinet Secretary  
**Reese Fullerton**  
Deputy Cabinet Secretary

REC'D/MIDLAND  
AUG 22 2008

**Mark Fesmire**  
Division Director  
Oil Conservation Division



**Administrative Order WFX-839**  
**August 18, 2008**

APPLICATION OF XTO ENERGY, INC. TO CONVERT THE EMSU WELL NO. 643 TO INJECTION WITHIN ITS EUNICE MONUMENT SOUTH UNIT WATERFLOOD PROJECT IN THE UNICE MONUMENT GRAYBURG-SAN ANDRES POOL IN LEA COUNTY, NEW MEXICO

## ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Division Order R-7766, XTO Energy, Inc. (OGRID No. 5380) has made application to the Division for permission to add an additional injection well to its Eunice Monument South Unit Waterflood Project located within the Eunice Monument Grayburg-San Andres Pool (Pool No. 23000) in Lea County, New Mexico.

### THE DIVISION DIRECTOR FINDS THAT:

The application was filed in due form. No objections have been filed within the 20 day waiting period prescribed by Division Rule 701(C). The proposed injection well is eligible for conversion to injection under the terms of Rule 701. The operator is in compliance with Rule 40.

There are no know faults cutting through the Grayburg and San Andres which would act as a conduit for gas, oil or injection water to seep into the fresh water horizons above the injection zones in the Grayburg and San Andres. There are no known fresh water horizons below the Rustler anhydrite.

The proposed expansion of the above-referenced waterflood project will not cause waste nor impair correlative rights and should be approved.

### IT IS THEREFORE ORDERED THAT:

XTO Energy, Inc. is hereby authorized to inject water from the into the unitized interval of the Eunice Monument South Unit ("EMSU") Waterflood Project, through plastic-lined 2-3/8 inch tubing set in a packer located within <sup>200</sup>~~100~~ feet of the top of the injection interval in the following-described well for purposes of secondary recovery:

Oil Conservation Division \* 1220 South St. Francis Drive  
\* Santa Fe, New Mexico 87505

\* Phone: (505) 476-3440 \* Fax (505) 476-3462\* <http://www.emnrd.state.nm.us>

