



# 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. WFX-813*

***APPLICATION OF MAR OIL & GAS CORPORATION TO EXPAND ITS WATERFLOOD  
PROJECT IN THE EUMONT (YATES-SEVEN RIVERS-QUEEN) POOL IN LEA COUNTY,  
NEW MEXICO***

**ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION DIVISION**

Under the provisions of Division Order No. R-3115, Mar Oil & Gas Corporation has made application to the Division on July 22, 2005 for permission to expand its Eumont Hardy Unit Waterflood Project in the Eumont (Yates-Seven Rivers-Queen) 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 were provided notice of the application.
- (3) No objection has been received within the waiting period as prescribed by Rule 701(B).
- (4) The proposed injection wells are eligible for conversion to injection under the terms of Rule 701.
- (5) The proposed expansion of the above-referenced waterflood project will not cause waste nor impair correlative rights.
- (6) The application should be approved.

**IT IS THEREFORE ORDERED THAT:**

The applicant, Mar Oil & Gas Corporation is hereby authorized to inject water into the Eumont (Yates-Seven Rivers-Queen) Pool through the gross interval from 3,498 feet to 3,780 feet using 2-3/8-inch plastic-lined tubing set in a packer located within 100 feet of the open-hole injection

interval in the following-described wells for purposes of secondary recovery to wit:

**Eumont Hardy Unit Well No. 36**  
API No. 30-025-06407  
1980' FNL & 660' FEL, Unit H,  
Section 5, Township 21 South, Range 37 East  
Open-hole Injection Interval: 3,521'-3,780'  
Maximum Surface Injection Pressure: 1650 PSIG

**Eumont Hardy Unit Well No. 26**  
API No. 30-025-09899  
660' FNL & 1980' FWL, Unit C,  
Section 5, Township 21 South, Range 37 East  
Open-hole Injection Interval: 3,498'-3,755'  
Maximum Surface Injection Pressure: 1650 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 wells, 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 in each well 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 wells or system shall be equipped with a pressure limiting device 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 wells that such higher pressure will not result in migration of the injected fluid from the Yates-Seven Rivers-Queen 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 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 wells and shall take such steps as may be timely and necessary to correct such failure or leakage.

The subject wells shall be governed by all provisions of Division Order No. R-3115, 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 wells, 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 11th day of August, 2005.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION



MARK E. FESMIRE, P.E.  
Director

cc: Oil Conservation Division – Hobbs  
Bureau of Land Management - Carlsbad