



# New Mexico Energy, Minerals and Natural Resources Department

**Bill Richardson**  
Governor

**Jim Noel**  
Cabinet Secretary

**Karen W. Garcia**  
Deputy Cabinet Secretary

**Mark Fesmire**  
Division Director  
Oil Conservation Division



## Administrative Order WFX-875

**November 16, 2010**

Mr. James Bruce as Agent for  
Chi Operating, Inc  
P.O. Box 1799  
Midland, TX 79702

### ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Division Order R-13262, Chi Operating, Inc. (OGRID No. 4378) has made application to the Division for permission to add injection wells to its Benson Delaware Secondary Recovery Project located within the Brushy Canyon member of the Delaware formation, Benson-Delaware Pool (97083) in Eddy County, New Mexico.

#### THE DIVISION DIRECTOR FINDS THAT:

The application was filed in due form. No objections have been filed within the waiting period prescribed by Division Rule 26.8C.(2). The proposed injection wells are eligible for conversion to injection under the terms of Rule 26.8. The operator is in compliance with Rule 5.9.

The proposed extension of the above-referenced waterflood project, will prevent waste, is in the best interests of conservation, will not impair correlative rights, and should be approved. It is our understanding that the E/2 of Section 11, and the W/2 of Section 12 are subject to the Federal lease NM 0560353, and this acreage has common ownership in the Delaware formation

#### IT IS THEREFORE ORDERED THAT:

Chi Operating, Inc. is hereby authorized to inject water into the unitized interval, through plastic-lined tubing set in packers located within 100 feet of the top of the injection intervals in the following-described wells for purposes of secondary recovery:



## 2 Additional Injection Wells

WELL_NAME	API	N-S	E-W	Unit	Sec	Tsp	Rge	Perfs
Munchkin Federal Well No. 2	30-015-31778	990 FSL	660 FWL	M	1	19S	30E	5016-5158
Munchkin Federal Well No. 12	30-015-35791	2547 FNL	519 FWL	E	12	19S	30E	4494-4888

Providing that all conditions contained in the order remain the same and there have been no additional wells drilled or plugged in the area of review.

### 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 these wells, the casing shall be pressure tested from the surface to the packer setting depth to assure casing integrity.

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 wells or injection system shall be equipped with pressure limiting devices which will limit the wellhead pressure to the maximum surface injection pressure of **860 PSIG**.

The Director of the Division may authorize increases in injection pressure upon a proper showing by the operator that higher pressure will not result in migration of the injected fluid from the permitted injection interval or harmful formation fracturing. Such proper showing shall consist of valid step-rate tests and possibly injection profiles or pressure transient testing run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the District Office 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 District Office 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-13262, and Rules 26.9 through 26.13 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 at least one of the subject wells, 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.  
Acting Director

MEF/tw

cc: New Mexico Oil Conservation Division - Artesia  
United States Bureau of Land Management  
Case No. 13262