

State of New Mexico  
Energy, Minerals and Natural Resources Department

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Governor

John H. Bemis  
Cabinet Secretary

Brett F. Woods, Ph.D.  
Deputy Cabinet Secretary

Jami Bailey  
Division Director  
Oil Conservation Division



**Administrative Order WFX-898**

March 23, 2012

Application Reference No. pTWG1208240780

Mr. Gary Womack  
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 19.15.26.8C (2). The proposed injection well is eligible for conversion to injection under the terms of Rule 19.15.26.8. The operator is in compliance with Rule 19.15.5.9.

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:



WELL_NAME	API	N-S	E-W	Unit	Sec	Tsp	Rge	Perfs	Surf Pres
Benson Delaware Unit Well No. 3W	30-015-32210	1980 FSL	2310 FEL	J	1	19S	30E	4962-5142	992
Benson Delaware Unit Well No. 10	30-015-35085	2200 FNL	330 FEL	H	11	19S	30E	4500-5100	900
Benson Delaware Unit Well No. 15	30-015-38298	150 FSL	1550 FWL	N	1	19S	30E	4400-5200	880
Benson Delaware Unit Well No. 20	30-015-38299	1250 FNL	350 FWL	D	12	19S	30E	4500-5100	900

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 operation into this well, 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 wells shall pass an initial mechanical integrity test ("MIT") prior to initially commencing disposal and prior to resuming disposal each time the disposal packer is unseated. All MIT testing procedures and schedules shall follow the requirements in Division Rule 19.15.26.11A. NMAC.

The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure to 0.2 psi/ft. to the uppermost injection perforations, as shown 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 or harmful formation fracturing. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to the Artesia District Office.

The operator shall notify the supervisor of the Artesia 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 Artesia 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.

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The subject wells shall be governed by all provisions of Division Order No. R-13262, and Rules 19.15.26.9 through 19.15.26.13 not inconsistent herewith.

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. X

Sincerely,



for Jami Bailey  
Director

JB/tw

cc: New Mexico Oil Conservation Division - Artesia  
United States Bureau of Land Management

