



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**  
Cabinet Secretary

**Lori Wrotenbery**

Director

**Oil Conservation Division**

*ADMINISTRATIVE ORDER NO. WFX-789*

***APPLICATION OF DUGAN PRODUCTION CORPORATION TO EXPAND ITS WEST BISTI  
LOWER GALLUP SAND UNIT WATERFLOOD PROJECT IN THE BISTI-LOWER GALLUP  
POOL IN SAN JUAN COUNTY, NEW MEXICO***

**ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION DIVISION**

Under the provisions of Division Order No. R-1638, as amended, Dugan Production Corporation has made application to the Division on March 3, 2003 for permission to expand its West Bisti Lower Gallup Sand Unit Waterflood Project in the Bisti-Lower Gallup Pool in San Juan County, New Mexico.

**THE DIVISION DIRECTOR FINDS THAT:**

- (1) The application has been filed in due form.
- (2) Satisfactory information has been provided that all offset operators have been duly notified of the 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 waterflood project will not cause waste nor impair correlative rights.
- (6) The application should be approved.

**IT IS THEREFORE ORDERED THAT:**

The applicant, Dugan Production Corporation is hereby authorized to inject water into the Gallup formation at approximately 4,831 feet to 4,854 feet through 2 3/8-inch plastic lined tubing set in a packer located at a depth of 4,775 feet in the following-described well for purposes of secondary recovery to wit:

West Bisti Unit No. 157  
API No. 30-045-05598  
660' FSL & 660' FEL (Unit P)  
Section 36, T-26 North, R-13 West, NMPM,  
San Juan County, New Mexico

**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, the applicant shall conduct the following procedures on the West Bisti Unit Well No. 157 in order to prepare the well for injection:**

**The 7.0-inch casing shall be perforated at a depth of approximately 4004', and cement shall be circulated to the surface on this casing string.**

**A 4 ½-inch casing liner shall be set from the surface to a depth of 4,830 feet. Cement shall then be circulated to the surface on this liner.**

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 a pressure limiting device which will limit the wellhead pressure on the injection well to no more than 966 psi.

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 injection 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 Aztec district office of the Division of the date and time of the installation of injection equipment and of the mechanical integrity test so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Aztec 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-1638, 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 9th day of April, 2003.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION



LORI WROTENBERY  
Director

S E A L

LW/DRC

cc: Oil Conservation Division – Aztec  
Bureau of Land Management-Farmington