



**NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT**

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

ADMINISTRATIVE ORDER NO. WFX-757

***APPLICATION OF MANZANO OIL CORPORATION TO EXPAND ITS WATERFLOOD
PROJECT IN THE SHUGART-YATES-SEVEN RIVERS-QUEEN-GRAYBURG POOL IN
EDDY COUNTY, NEW MEXICO***

**ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION**

Under the provisions of Division Order No. R-9895, Manzano Oil Corporation has made application to the Division on December 13, 1999 for permission to expand its Benson Shugart Waterflood Project in the Shugart-Yates-Seven Rivers-Queen-Grayburg Pool in Eddy 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 previously plugged and abandoned Yates & Dooley, Creek Permit Well No. 1, located 1980 feet from the North line and 1980 feet from the East line (Unit G) of Section 35, Township 18 South, Range 30 East, NMPM, Eddy County, New Mexico, is located within the one-half mile "area of review" of the proposed Benson Shugart Waterflood Unit Well No. 8.
- (7) The application should be approved.

IT IS THEREFORE ORDERED THAT:

The applicant, Manzano Oil Corporation be and the same is hereby authorized to inject water into the Penrose and Grayburg formations at approximately 3,226 feet to approximately 3,233 feet

through 2 3/8-inch plastic lined tubing set in a packer located within 100 feet of the uppermost injection perforations in the following described well for purposes of secondary recovery to wit:

Benson Shugart Waterflood Unit Well No. 8
API No. 30-015-23073
330 FNL & 990 FEL, Unit 'A'
Injection Interval: 3,226 feet to 3,233 feet
Maximum Injection Pressure: (.2 psi/ft) 645 psig

Located in Section 35, Township 18 South, Range 30 East, Eddy 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 into the proposed Benson Shugart Waterflood Unit Well No. 8, the operator shall either provide evidence of proper cementing and plugging, or re-enter and re-plug the Yates & Dooley, Creek Permit Well No. 1, so as to confirm or establish cement across the proposed injection interval.

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 .2 psi per foot of depth to the uppermost injection perforation.

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 Penrose and Grayburg formations. 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 Artesia 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 Artesia 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.

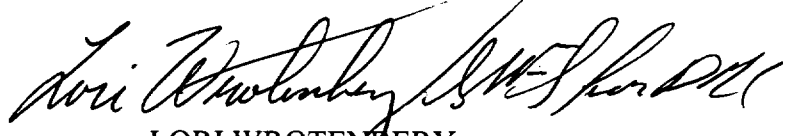
The subject well shall be governed by all provisions of Division Order No. R-9895 and Rules 702-706 of the Division Rules and Regulations not inconsistent herewith.

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 29th day of December, 1999.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


LORI WROTENBERY
Director

S E A L

LW/MWA/kv

cc: Oil Conservation Division - Artesia
Bureau of Land Management - Carlsbad
Case File No. 10686