ADMINISTRATIVE ORDER NO. WFX-721

APPLICATION OF DEVON ENERGY CORPORATION (NEVADA) 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 Nos. R-3059 and R-3769, Devon Energy Corporation (Nevada) has made application to the Division on July 14, 1997 for permission to expand its East Shugart Unit 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 East Shugart Unit Waterflood Project will not cause waste nor impair correlative rights.
 - (6) The application should be approved.

IT IS THEREFORE ORDERED THAT:

The applicant, Devon Energy Corporation (Nevada), be and the same is hereby authorized to inject water into the Queen formation at approximately 3362 feet to approximately 3932 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 wells for purposes of secondary recovery to wit:

East Shugart Unit Well No.56 2250' FNL & 1910' FEL, UL 'G' Injection Interval: 3591 feet to 3932 feet Maximum Injection Pressure: 1760 psig

East Shugart Unit Well No.58 1575' FSL & 2200' FWL, UL 'K' Injection Interval: 3362 feet to 3908 feet Maximum Injection Pressure: 1647 psig

Both located in Section 35, Township 18 South, Range 31 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 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 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 on the injection wells to no more than .49 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 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 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 Nos. R-3059 and R-3769, as amended and Rules 702-706 of the Division Rules and Regulations not inconsistent herewith.

PROVIDED FURTHER THAT, jurisdiction of this cause is hereby retained by the Division for the entry of such further order or orders as may be deemed necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of the operator to conduct operations in a manner which will ensure the protection of fresh water or in a manner inconsistent with the requirements set forth in this order, 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 28th day of August, 1997.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LÆMAY

Director

SEAL

cc: Oil Conservation Division – Artesia Case File No.3391