



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-682

**APPLICATION OF MARBOB ENERGY CORPORATION TO EXPAND ITS WATERFLOOD
PROJECT IN THE GRAYBURG JACKSON POOL IN EDDY COUNTY, NEW MEXICO**

**ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION**

Under the provisions of Division Order No. R-7900, as amended, Marbob Energy Corporation has made application to the Division on February 7, 1996 for permission to expand its Burch-Keely Unit Waterflood Project in the Grayburg Jackson 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 wells are 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, Marbob Energy Corporation, be and the same is hereby authorized to inject water into the Grayburg and San Andres formations at approximately 2701 feet to approximately 3326 feet through 2 3/8-inch plastic lined tubing set in a packer located within 100 feet of the uppermost injection perforations in the wells described on Exhibit "A" attached hereto, for purposes of secondary recovery.

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 well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection wells to no more than .2 psi per foot of depth to the uppermost injection perforations as determined from previously submitted step-rate test data.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said wells that such higher pressure will not result in migration of the injected fluid from the Grayburg or San Andres 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 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-7900, 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.

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Devon Energy Corporation

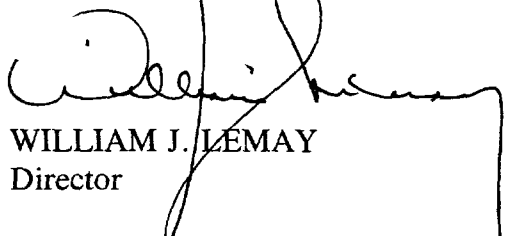
April 3, 1996

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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 wells, 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 3rd day of April, 1996.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY
Director

S E A L

cc: Oil Conservation Division - Artesia

EXHIBIT "A"
DIVISION ORDER NO. WFX-682
BURCH-KEELY UNIT WATERFLOOD PROJECT
APPROVED INJECTION WELLS

<i>Well Name</i>	<i>Well No.</i>	<i>Location</i>	<i>Unit</i>	<i>S.T.R.</i>	<i>Injection Interval</i>	<i>Packer Depth</i>	<i>Tubing Size</i>	<i>Injection Pressure</i>
Burch Keely Unit	94	1650' FSL & 2970' FEL	K	19-17S-30E	2969'-3208'	2940'	2 3/8"	594
Burch Keely Unit	95	2310' FSL & 2310' FEL	J	19-17S-30E	2956'-3304'	2930'	2 3/8"	591
Burch Keely Unit	97	2615' FSL & 1295' FEL	I	19-17S-30E	2972'-3240'	2940'	2 3/8"	594
Burch Keely Unit	98	1650' FSL & 760' FEL	I	19-17S-30E	3242'-3290'	3200'	2 3/8"	648
Burch Keely Unit	100	660' FSL & 660' FEL	P	19-17S-30E	3250'-3275'	3200'	2 3/8"	650
Burch Keely Unit	101	330' FSL & 1650' FEL	O	19-17S-30E	3148'-3326'	3100'	2 3/8"	620
Burch Keely Unit	102	990' FSL & 2310' FEL	O	19-17S-30E	2701'-3246'	2660'	2 3/8"	532

All wells in Eddy County, New Mexico