



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONY ANAYA
GOVERNOR

June 3, 1985

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APPLICATION OF MURPHY OPERATING
CORPORATION TO EXPAND ITS WATERFLOOD PROJECT
IN THE TODD LOWER SAN ANDRES POOL IN ROOSEVELT
COUNTY, NEW MEXICO.

ORDER No. WFX-544

ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION

Under the provisions of Order No. R-6677, Murphy Operating Corporation has made application to the Division on March 26, 1985, for permission to expand its Layton Todd Lower San Andres Waterflood Project in the Todd Lower San Andres Pool in Roosevelt County, New Mexico.

NOW, on this 3rd day of June, 1985, the Division Director finds:

1. That application has been filed in due form.
2. That satisfactory information has been provided that all offset operators have been duly notified of the application.
3. That no objection has been received within the waiting period as prescribed by Rule 701B.
4. That the proposed injection well is eligible for conversion to water injection under the terms of Rule 701.
5. That the proposed expansion of the above referenced waterflood project will not cause waste nor impair correlative rights.
6. That the application should be approved.

IT IS THEREFORE ORDERED:

That the applicant, Murphy Operating Corporation, be and the same is hereby authorized to inject water into the San Andres formation through plastic-lined tubing set in a packer at a maximum of 100 feet above uppermost injection interval in the wells described on Exhibit "A" for purposes of waterflooding to wit.

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.

That the casing-tubing annulus (in each well) 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.

That 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 0.2 psi per foot of depth to the uppermost injection interval in each well. NOTE ATTACHED LIST OF WELLS FOR AUTHORIZED PRESSURES.

That 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 San Andres formation. That such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

That the operator shall notify the supervisor of the Division's Hobbs District Office before injection is commenced through said wells.

That the operator shall immediately notify the Supervisor of the Division's Hobbs District Office of the failure of the tubing, casing, or packer in said wells or the leakage of water from or around said wells and shall take such steps as may be timely or necessary to correct such failure or leakage.

That the subject wells shall be governed by all provisions of Division Order No. R-6677 and Rules 702, 703, 704, 705, and 706 not inconsistent herewith.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


R. L. STAMETS,
Director

S E A L

LAYTON TODD LOWER SAN ANDRES WATERFLOOD
PROJECT EXPANSION

<u>WELL NUMBER AND LOCATION</u>	<u>PACKER DEPTH</u>	<u>MAXIMUM ALLOWABLE SURFACE INJECTION PRES.</u>
Well No. 15 650' FSL & 1980' FEL, Sec. 30, T-7-S, R-36-E, Roosevelt County	4170 ft.	847 PSIG
Well No. 7 1830' FNL & 1980' FEL Sec. 31, T-7-S, R-36-E, Roosevelt County	4305 ft.	847 PSIG
Well No. 1 450' FNL & 660' FEL, Sec. 31, T-7-S, R-36-E Roosevelt County	4300 ft.	848 PSIG
Well No. 13 330' FSL & 66' FWL, Sec. 29, T-7-S, R-36-E, Roosevelt County	4334 ft.	849 PSIG
Well No. 5 1830' FNL & 660' FWL, Sec. 32, T-7-S, R-36-E, Roosevelt County	4308 ft.	850 PSIG

EXHIBIT "A"
ORDER NO. WFX-544