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GOVERNOR

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION



1935 - 1985

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APPLICATION OF MOBIL PRODUCING TEXAS &
NEW MEXICO TO EXPAND ITS WATERFLOOD PROJECT
IN THE VACUUM ABO POOL IN LEA COUNTY, NEW MEXICO

ORDER No. WFX-557

ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION

Under the provisions of Order No. R-4430, Mobil Producing Texas & New Mexico has made application to the Division on January 2, 1986, for permission to expand its North Vacuum Abo Unit Waterflood Project in the Vacuum Abo Pool in Lea County, New Mexico.

NOW, on this 11th day of February, 1986, 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, Mobil Producing Texas & New Mexico, be and the same is hereby authorized to inject water into the Abo formation through 2 3/8-inch tubing set in a packer at approximately 100 feet above the uppermost injection

perforations in the following described well for purposes of secondary recovery to wit:

| <u>WELL & LOCATION</u> | <u>MAXIUMUM SURFACE INJECTION PRESSURE</u> |
|--|--|
| N. Vacuum Abo Unit No. 121 1930' FSL & 860' FWL Sec. 13, T-17-S, R-34-E, NMPM | 1697 PSIG |
| N. Vacuum Abo Unit No. 129 860' FNL & 1980' FEL Sec. 23, T-17-S, R-34-E, NMPM | 1700 PSIG |
| N. Vacuum Abo Unit No. 139 1980' FSL & 860' FWL Sec. 14, T-17-S, R-34-E, NMPM | 1717 PSIG |
| N. Vacuum Abo Unit No. 142 1807' FSL & 1880' FEL Sec. 14, T-17-S, R-34-E, NMPM | 1707 PSIG |
| N. Vacuum Abo Unit No. 143 660' FNL & 1780' FEL Sec. 27, T-17-S, R-34-E, NMPM | 1721 PSIG |
| N. Vacuum Abo Unit No. 149 1980' FSL & 1780' FEL Sec. 27, T-17-S, R-34-E, NMPM | 1726 PSIG |
| N. Vacuum Abo Unit No. 155 560' FNL & 560' FWL Sec. 23, T-17-S, R-34-E, NMPM | 1719 PSIG |
| N. Vacuum Abo Unit No. 163 1980' FSL & 1980' FEL Sec. 15, T-17-S, R-34-E, NMPM | 1742 PSIG |
| N. Vacuum Abo Unit No. 203 660' FNL & 1780' FEL Sec. 22, T-17-S, R-34-E, NMPM | 1738 PSIG |
| N. Vacuum Abo Unit No. 204 660' FNL & 860' FWL Sec. 24, T-17-S, R-34-E, NMPM | 1697 PSIG |
| N. Vacuum Abo Unit No. 206 660' FNL & 660' FWL Sec. 19, T-17-S, R-34-E, NMPM | 1719 PSIG |
| N. Vacuum Abo Unit No. 209 1980' FSL & 1780' FEL Sec. 22, T-17-S, R-34-E, NMPM | 1731 PSIG |

N. Vacuum Abo Unit No. 230
1880' FSL & 2130' FEL
Sec. 13, T-17-S, R-34-E, NMPM

1709 PSIG

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 .2 psi/ft. depth to the uppermost perforation.

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

That prior to commencing injection operations in these wells, the casing shall be pressure tested from the surface to the proposed packer setting depth to assure the integrity of the casing.

That the operator shall notify the supervisor of the Division's Hobbs District Office of the time and the date of the installation of injection equipment and of the mechanical integrity test so that the same may be inspected and witnessed.

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-4430 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

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