



TONEY ANAYA
GOVERNOR

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION



1935 - 1985

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

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

ORDER No. PMX-140

AMENDED 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 20, 1986 for permission to expand its North Vacuum Abo Unit Pressure Maintenance Project in the Vacuum Abo Pool in Lea County, New Mexico.

NOW, on this 7th day of March, 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 Pressure Maintenance 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>MAXIMUM SURFACE INJECTION PRESSURE</u> |
|--|---|
| N. Vacuum Abo Unit No. 131 790' FNL & 1980' FEL Sec. 10, T-17-S, R-34-E; | 1733 PSIG |
| N. Vacuum Abo Unit No. 134 760' FNL & 1980' FSL Sec. 12, T-17-S, R-34-E; | 1705 PSIG |
| N. Vacuum Abo Unit No. 135 1980' FSL & 860' FWL Sec. 11, T-17-S, R-34-E; | 1722 PSIG |
| N. Vacuum Abo Unit No. 146 534' FNL & 2134' FEL Sec. 14, T-17-S, R-34-E | 1703 PSIG |
| N. Vacuum Abo Unit No. 152 780' FNL & 2135' FEL Sec. 13, T-17-S, R-34-E | 1707 PSIG |
| N. Vacuum Abo Unit No. 158 1980' FSL & 1780' FEL Sec. 12, T-17-S, R-34-E | 1706 PSIG |
| N. Vacuum Abo Unit No. 160 660' FNL & 1780' FEL Sec. 12, T-17-S, R-34-E | 1716 PSIG |
| N. Vacuum Abo Unit No. 162 1980' FSL and 2180' FEL Sec. 11, T-17-S, R-34-E | 1712 PSIG |
| N. Vacuum Abo Unit No. 164 660' FNL & 1980' FEL Sec. 15, T-17-S, R-34-E | 1735 PSIG |
| N. Vacuum Abo Unit No. 165 660' FNL & 860' FWL Sec. 13, T-17-S, R-34-E | 1697 PSIG |
| N. Vacuum Abo Unit No. 170 660' FNL & 740' FWL Sec. 14, T-17-S, R-34-E | 1716 PSIG |
| N. Vacuum Abo Unit No. 200 1980' FSL & 660' FWL Sec. 2, T-17-S, R-34-E | 1733 PSIG |
| N. Vacuum Abo Unit No. 201 1980' FSL & 1980' FEL Sec. 10, T-17-S, R-34-E | 1736 PSIG |

N. Vacuum Abo Unit No. 214 1723 PSIG
790' FNL & 790' FWL
Sec. 11, T-17-S, R-34-E

N. Vacuum Abo Unit No. 224 1718 PSIG
745' FNL & 1880' FEL
Sec. 11, T-17-S, R-34-E

N. Vacuum Abo Unit No. 229 1749 PSIG
2000' FSL and 660' FWL
Sec. 10, T-17-S, R-34-E

N. Vacuum Abo Unit No. 302 1731 PSIG
1980' FSL & 1980' FEL
Sec. 3, T-17-S, R-34-E

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 prior to commencing injection operations into said wells, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of such casing.

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 perforations.

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.

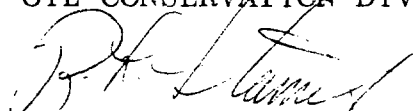
That the operator shall notify the supervisor of the Division's Hobbs District Office before injection is commenced through said wells and of the time of the mechanical integrity test..

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

S E A L