

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION



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DIRECTOR

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APPLICATION OF PHILLIPS PETROLEUM COMPANY TO
EXPAND ITS PRESSURE MAINTENANCE PROJECT IN THE
VACUUM ABO REEF POOL IN LEA COUNTY,
NEW MEXICO.

ORDER NO. PMX-144

ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION

Under the provisions of Order No. R-3181, Phillips Petroleum Company has made application to the Division on January 2, 1987 for permission to expand its Vacuum Abo Unit Pressure Maintenance Project in the Vacuum Abo Reef Pool in Lea County, New Mexico.

NOW, on this 11th day of February, 1987, 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, Phillips Petroleum Company, be and the same is hereby authorized to inject water into Abo formation through plastic-lined tubing set in a packer located approximately 100 feet above the uppermost perforations in the following described wells for purposes of pressure maintenance to wit:

<u>WELL AND LOCATION</u>	<u>MAXIMUM SURFACE INJECTION PRESSURE (PSIG)</u>
Tract 6 No. 85 380 FNL & 1650 FWL (Unit C) Sec. 35, T-17-S, R-35-E	1770
Tract 10 No. 8 990 FSL & 1650 FWL (Unit N) Sec. 34, T-17-S, R-35-E	1749
Tract 10 No. 9 1980 FSL & 2310 FEL (Unit J) Sec. 34, T-17-S, R-35-E	1751
Tract 13 No. 14 1650 FNL & 660 FEL (Unit H) Sec. 4, T-18-S, R-35-E	1761
Tract 13 No. 19 990 FSL & 990 FEL (Unit P) Sec. 5, T-18-S, R-35-E	1772

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 in the well, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of the 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. of 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 the operator shall notify the supervisor of the Division's Hobbs District Office before injection is commenced through said wells.

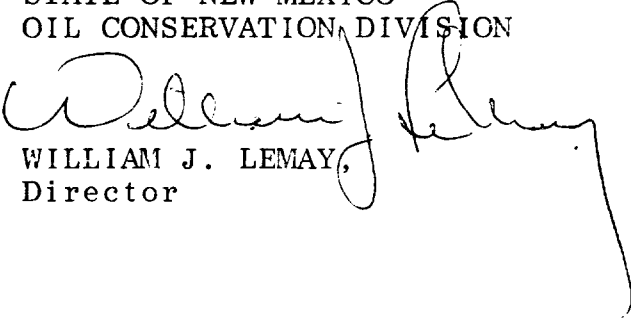
That the operator shall immediately notify the Supervisor of the Division's Hobbs District Office of the failure of the tubing, casing, or packer in said wells or the leakage of water from or around said wells and shall take such steps as may be timely or necessary to correct such failure or leakage.

That the subject wells shall be governed by all provisions of Division Order No. 3181 and Rules 702, 703, 704, 705, and 706 not inconsistent herewith.

That the Division Director may rescind or suspend this injection authority if it becomes apparent that the injected water is not being confined to the injection zone or it is endangering any fresh water aquifers.

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

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


WILLIAM J. LEMAY,
Director

S E A L

cc: OCD - Hobbs
D. McDonald