



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

TONY ANAYA  
GOVERNOR

APPLICATION OF TENNECO OIL EXPLORATION  
AND PRODUCTION COMPANY TO EXPAND ITS  
WATERFLOOD PROJECT IN THE LEONARD QUEEN  
POOL IN LEA COUNTY, NEW MEXICO.

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

ORDER No. WFX-526

ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION DIVISION

Under the provisions of Order No. R-5675, Tenneco Oil Exploration and Production Company has made application to the Division on March 27, 1984, for permission to expand its Leonard Brothers Waterflood Project in the Leonard Queen Pool in Lea County, New Mexico.

NOW, on this 26th day of April, 1984, 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, Tenneco Oil Exploration and Production Company, be and the same is hereby authorized to inject water into the Queen formation through plastic-lined tubing set in a packer within 100 feet of the uppermost perforations in the following described wells for purposes of waterflood to wit:

Leonard Brothers Well No. 1, 330' FSL and 990' FEL,  
Section 13, T-26-S, R-37-E, Lea County

Leonard Brothers Well No. 4, 1980' FSL and 1980' FEL,  
Section 13, T-26-S, R-37-E, Lea County

Leonard Brothers Well No. 15, 1980' FSL and 660' FWL,  
Section 13, T-26-S, R-37-E, Lea County

Leonard Brothers Well No. 16, 1980' FNL and 1980' FWL,  
Section 13, T-26-S, R-37-E, Lea County

Leonard Brothers Well No. 26, 660' FNL and 660' FWL,  
Section 13, T-26-S, R-37-E, Lea County

Leonard Brothers Well No. 27, 1980' FNL and 660' FEL of  
Section 14, T-26-S, R-37-E, Lea County.

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 wells to no more than 680 psi, with the exception of Leonard Brothers Wells 26 and 27 which may inject at no more than hydrostatic head pressure as described in Order No. R-5675, Part 6.

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 Queen 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.

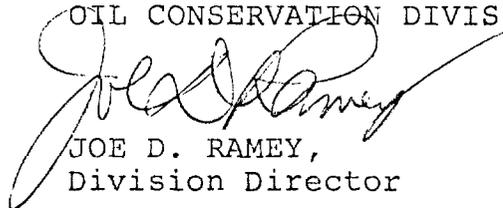
That the operator shall immediately notify the Supervisor of the Division's Hobbs District Office of the failure of the tubing, casing, or packer in said wells or the leakage of water

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 waterflood shall be governed by all provisions of Division Order No. R-5675 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



JOE D. RAMEY,  
Division Director

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