

# Tenneco Oil Company

A Tenneco Company

The Galleria-Penthouse  
720 South Colorado Blvd  
Denver, Colorado 80222  
(303) 758-7130



July 24, 1978

State of New Mexico Oil Conservation Commission  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Attention: Joe D. Ramey  
Secretary

Re: Application for Additional  
Waterflood Operations  
Leonard Area  
Lea County, New Mexico

Gentlemen:

Pursuant to paragraph 11 of New Mexico Oil Conservation Commission Order No. R-5675, Tenneco Oil Company hereby makes application to convert five wells into injection wells in order to increase secondary recovery operations on the Leonard Federal lease and Leonard Brothers lease covering lands in Sections 13 and 14, Township 26 South, Range 37 East, Leonard Queen Pool, Lea County, New Mexico.

The five proposed injection wells are: Leonard Federal #12, #5 and #8, and Leonard Brothers #5 and #3. Before injection will begin in any of the five wells for which this application for approval is filed, the following projects will be completed:

1. Internally coated tubing will be installed in a packer which will be set no more than 100 feet above the perforations.
2. The casing-tubing annulus in each well will be filled with an inert fluid and a pressure gauge will be attached to the annulus to permit determination of leakage.
3. The injection wells or system will be equipped with a pressure limiting device which will limit the surface injection pressure to no more than 680 psi.
4. The wells will be equipped so as to facilitate periodic testing of the bradenhead for pressure or fluid production.

One of the proposed wells (Leonard Federal #12) is located within one-half mile of one of the five wells requiring replugging as identified in Exhibit "A" of New Mexico Oil Conservation Order No. R-5675. In accordance with that order, injection pressure in Leonard Federal #12 will be limited to hydrostatic until the offset well, Midwest Refining Farnsworth #19, Unit M, Section 14, is replugged to the satisfaction of the New Mexico Oil Conservation Commission.

In support of this application we have enclosed:

- (a) a plat showing the location of the proposed wells, all wells within the project area and offset operators;
- (b) a schematic drawing of each of the proposed injection wells which fully describes the casing, tubing, perforated interval, depth and a demonstration that the proposed injection wells will meet construction, pressure and monitoring provisions;

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- (c) a copy of a letter sent to all offset operators in which said operators were furnished a complete copy of this application.

The foregoing meets the requirements contained in Order No. R-5675; therefore, we respectfully request approval of this application.

Yours very truly,

TENNECO OIL COMPANY

By: D.D. Myers  
D.D. Myers  
Division Production Manager *SGP*

DDM/SJP/ps

Encls.

cc: Texas Pacific Oil Company, Inc.  
1700 One Main Place, Dallas, Texas 75250

El Paso Natural Gas Company  
P.O. Box 1492, 304 Texas Street, El Paso, Texas 79978

Texaco Inc.  
P.O. Box 3109, Midland, Texas 79702

The Petroleum Corporation  
3303 Lee Parkway, Dallas, Texas 75219

Bettis, Boyle, and Stovall  
Box 1168, Graham, Texas 76046

Herman J. Ledbetter  
1002 Sayles Boulevard, Abilene, Texas 79605

Yates Petroleum Corporation  
207 South 4th Street, Artesia, New Mexico 88210