



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

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GOVERNOR

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APPLICATION OF AMERICAN PETROFINA COMPANY OF
TEXAS TO EXPAND ITS WATERFLOOD PROJECT IN THE
MILESAND SAN ANDRES POOL IN ROOSEVELT COUNTY,
NEW MEXICO

ORDER No. WFX-533

ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION

Under the provisions of Order No. R-3456, American Petrofina Company of Texas has made application to the Division on October 5, 1984 for permission to expand its R. E. Horton Federal Waterflood Project in the Milnesand San Andres Pool in Roosevelt County, New Mexico.

NOW, on this 31st day of October, 1984, the Division Director finds that:

1. Application has been filed in due form.
2. Satisfactory information has been provided that all offset operators have been duly notified of the application.
3. No objection has been received within the waiting period as prescribed by Rule 701B.
4. The proposed injection wells are eligible for conversion to water injection under the terms of Rule 701.
5. The proposed expansion of the above referenced waterflood project will not cause waste nor impair correlative rights.
6. The Horton Federal Lease Well No. 16, located 320 feet from the North line and 330 feet from the East line of Section 31, Township 8 South, Range 35 East, Roosevelt County, is not adequately plugged and is located within a 1/2 mile radius of the proposed Horton Federal Lease Injection Well No. 34.
7. The inadequately plugged Horton Federal Lease Well No. 16 provides a possible path for the migration of fluids from

the proposed injection interval to other horizons and poses a possible threat to fresh water sources.

8. The applicant should consult with our Hobbs District Office to plan a satisfactory plugging program. The Horton Federal Lease Well No. 16 should be re-plugged in a manner satisfactory to our Hobbs District Office before injection shall commence into the R. E. Horton Federal Lease Well No. 34.

9. The application should be approved.

IT IS THEREFORE ORDERED THAT:

The applicant, American Petrofina Company of Texas, be and the same is hereby authorized to inject water into the San Andres formation through plastic-lined tubing set in a packer at a maximum of 100 feet above the uppermost injection interval in the following described well for purposes of waterflood to wit:

<u>R. E. Horton Federal (Milnesand) Waterflood Project</u>	<u>Maximum Allowable Surface Injection Pressure</u>
Well No. 2 330' FNL & 1650' FWL Sec. 30, T-8S, R-35E, Roosevelt County, NM	925 PSIG
Well No. 5 1650' FNL and 2244' FEL Sec. 30, T-8S, R-35E Roosevelt County, NM	931 PSIG
Well No. 10 330' FNL and 921.3' FEL Sec. 30, T-8S, R-35E Roosevelt County, NM	929 PSIG
Well No. 18 1650.5' FNL & 330' FWL Sec. 29, T-8S, R-35E, Roosevelt County, NM	932 PSIG
Well No. 34 2280' FSL & 865' FEL Sec. 30, T-8S, R-35E, Roosevelt County, NM	934 PSIG

IT IS FURTHER ORDERED THAT:

The Horton Federal Lease Well No. 16 shall be re-plugged in a manner satisfactory to our Hobbs District office before injection commences into the R. E. Horton Federal Lease Well No. 34. The applicant shall consult with our Hobbs District Office to plan a satisfactory plugging program and a copy of the approved plugging schematic be forwarded to the Santa Fe Division office.

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.

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.

The injection wells or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on each injection well to no more than 0.20 psi per foot of depth to the uppermost injection interval. (Note list of wells for pressures)

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said wells that such higher pressure will not result in migration of the injected fluid from the San Andres formation. That such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Division's Hobbs District Office before injection is commenced through said wells.

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.

The subject wells shall be governed by all provisions of Division Order No. R-3456 and Rules 702, 703, 704, 705, and 706 not inconsistent herewith.

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

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A handwritten signature in black ink, appearing to read "R. L. Stamets", is written over the typed name and title.

R. L. STAMETS,
Acting Director