

Mobil Oil Corporation

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April 26, 1968

Mr. A. L. Porter, Jr., Secretary-Director
New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

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ADMINISTRATIVE APPROVAL TO EXPAND WATER INJECTION OPERATIONS IN THE VACUUM (GRAYBURG--SAN ANDRES) FIELD LEA COUNTY, NEW MEXICO

Gentlemen:

Mobil Oil Corporation respectfully requests administrative authority to expand water injection operations to include the Santa Fe Well No. 10 as a WIW in the Vacuum, Grayburg-San Andres pool of Lea County, New Mexico. This authority is requested under Order No. R-1244 and Rule No. 701.E.5. Injection is to be into the Grayburg-San Andres interval, found at approximately 4700'.

The subject well, which has recently been purchased by Mobil Oil Corporation from Phillips Petroleum Company, is situated in Unit C, Section 24, T-17-S, R-34-E. The well is a Southwest diagonal offset to the Texaco State "W" Lease and is offset by Mobil acreage in all other directions. Mobil's Bridges State Well No. 9 offsets the Santa Fe Well No. 10 to the North and Bridges State No. 19 offsets the well to the West. Both of these producers have experienced substantial response to the waterflood program as evidenced by well tests set out on the attached Form C-116. The subject well is expected to take water at rates from 500 to 1000 barrels per day. Co-op waterflood agreements between Mobil and Texaco are in the process of being executed.

The well will be converted and injection initiated through cement lined tubing set on a packer approximately 50' above the casing shoe. Adequate tests of all casing strings will be made to insure there are no leaks and all surface waters and other formations will be protected.

Attachments in support of this application include a plat showing the location of the Santa Fe Well No. 10 and other Grayburg-San Andres producers and injectors in the waterflood area, the Commission Form C-116 showing well tests before and after response on producers offsetting the Santa Fe Well No. 10, a log of Bridges State Well No. 107 which is a nearby well on which a log is available, and a diagrammatic sketch showing existing and proposed condition of the Santa Fe Well No. 10 wellbore. A copy of this application is being transmitted to the State Engineer and the offset operator, Texaco.

Very truly yours,



I. B. Stitt, Jr.
Division Operations Engineer
Midland Division

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Attach.