



## PRODUNCTION

P. O. BOX 9-217 FORT WORTH, TEXAS 76107 CABLE ADDRESS: ANDARK

May 19, 1970

WFX-341

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

> RE: North Caprock Queen Unit No. 2, Lea and Chaves Counties, New

Mexico

## Gentlemen:

Anadarko Production Company as Unit Operator of the North Caprock Queen Unit No. 2, Lea and Chaves Counties, New Mexico, that was authorized by Commission Order R-1194, hereby requests administrative approval to convert the following Unit producing wells to water injection:

Well	
<u>Number</u>	Location
1-2	NE/4NE/4 Section 1-T13S-R31E.
3-2	NE/4NW/4 Section 1-Tl3S-R31E.
7-3	NE/4SE/4 Section 1-T13S-R31E.
9-1	NE/4SW/4 Section 1-T13S-R31E.
14-1	NE/4NE/4 Section 12-T13S-R31E.
15-1	NE/4NW/4 Section 12-T13S-R31E.
18-2	NE/4SE/4 Section 12-T13S-R31E.
23-2	NE/4SW/4 Section 12-T13S-R31E.
25-1	NE/4NE/4 Section 11-T13S-R31E.
27-2	NE/4SE/4 Section 11-T13S-R31E.
27-7	NE/4SW/4 Section 11-T13S-R31E.

The conversion of the referenced producing wells to water injection service is part of a program that is designed to recover additional waterflood oil from the Queen sand under the North Caprock Queen

Unit No. 2 by changing flow patterns.

This program will consist of the temporary abandonment of all existing Unit water injection wells that were approved by Commission Order Nos. R-1053, R-1053-A, and R-1053-B, the conversion to water injection service of the referenced Unit producing wells, and the continued operation of the remaining Unit producing wells for production. Reference is hereby made to the attached plat of the Unit Area for the proposed program.

The North Caprock Queen Unit No. 2 has been an extremely successful waterflood project. As of January, 1970, 3,719,552 barrels of waterflood oil have been recovered from this project as compared to a primary recovery of 1,964,404 barrels of oil. Therefore, the Rule 701-E-5 requirement of response at an offset producing well before commencement of water injection operations has been met throughout the subject project.

With this application for administrative approval to convert the referenced eleven (11) Unit producing wells to water injection, we are enclosing data required under the provisions of Rule 701-B. This data includes (1) the plat referred to earlier to show the proposed water injection pattern and offset operations, (2) a log of a typical water injection well, and (3) a diagramatic sketch of a typical proposed water injection well completion on which we have indicated the zone to be open for water injection and the type and quantity of water to be injected.

The initiation of this program is urgently needed to accomplish maximum recoveries of waterflood oil from the Queen sand under the Unit Area. Your approval of this request at your earliest convenience will be appreciated.

Very truly yours,

ANADARKO PRODUCTION COMPANY

C.W. Stumhoffer

Superintendent

Secondary Recovery Division

C. W. Stumboffer

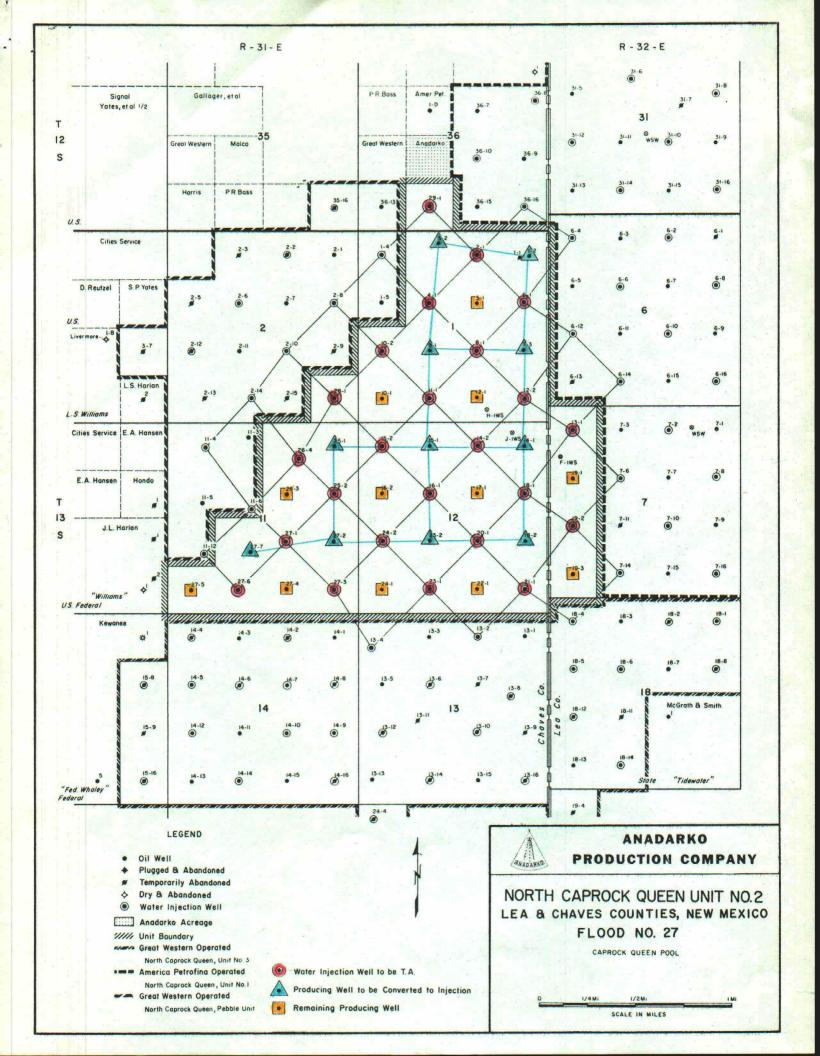
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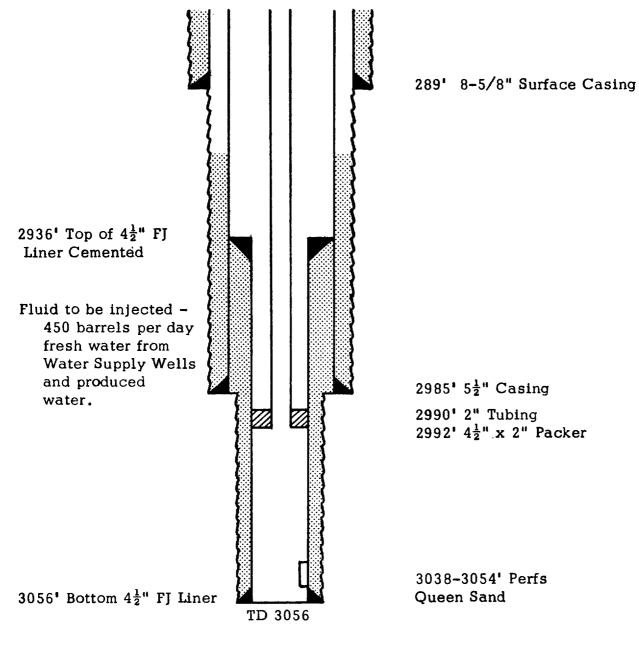
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cc: State of New Mexico

Commissioner of Public Lands

American Petrofina Company of Texas, Big Spring, Texas Great Western Drilling Corporation, Midland, Texas





## WELL LOCATION

660' FNL and 660' FEL Sec. 12-T13S-R31E



## ANADARKO PRODUCTION COMPANY

WELL BORE DIAGRAM

NORTH CAPROCK QUEEN UNIT NO.2 CHAVES COUNTY, NEW MEXICO

Well No. 14-1