

**ANADARKO PRODUCTION COMPANY**

3109 WINTHROP AVENUE P. O. BOX 9317 FORT WORTH, TEXAS 76107  
CABLE ADDRESS: ANDARK

July 19, 1968

*WFX - 291*

*New Mex to*

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

RE: Grier Federal Well No. 7,  
Square Lake Field,  
Eddy County, New Mexico

Gentlemen:

To supplement our application of June 17, 1968 to comply with the provisions of Rule 701-E-5 of the Rules and Regulations of the New Mexico Oil Conservation Commission, Anadarko Production Company is requesting administrative approval to convert Grier Federal Well No. 7, Square Lake Field, Eddy County, New Mexico to water injection in the oil productive Grayburg San Andres reservoir.

The well proposed for conversion to water injection is offset diagonally to the northeast by Newmont Oil Company's State "R" Well No. 1 that responded to water injection operations by Newmont during July, 1961 and that has recovered 33,109 barrels of waterflood oil to January 1, 1968. The diagonal location to the northwest, Anadarko's Grier Federal Well No. 11, responded to water injection operations during February, 1967 and produced 414 barrels of oil during May, 1968 which represents an increase from approximately 60 barrels of oil per month prior to response.

The waterflood project on the portion of Anadarko's Grier Federal lease

located in Sections 30 and 31-T16S-R31E as shown on the attached map was approved by New Mexico Oil Conservation Commission Order No. R-2977. This order permitted the cooperative waterflood development of this portion of the Square Lake Field by Ryder Scott Management Company, Stallworth Oil and Gas, Inc., Cima Capitan Incorporated, Newmont Oil Company, and Western Oil Fields, Inc. (succeeded by Anadarko Production Company).

To support this application for administrative approval to convert Grier Federal Well No. 7 to water injection, we are attaching data required under the provisions of Rule 701-B. This data includes (1) a plat showing the proposed water injection well and offset operations, (2) a log of the proposed water injection well, (3) a diagramatic sketch of the proposed water injection well completion on which we have indicated the zones to be open for injection and the type and quantity of water to be injected, and (4) a Commission Form C-116 showing well tests of offset wells to the proposed water injection well affected by water injection operations.

The conversion of this well to water injection is urgently needed to accomplish maximum recoveries of oil from the oil productive reservoir under the Grier Federal lease.

Your approval at your earliest convenience will be appreciated.

Very truly yours,

ANADARKO PRODUCTION COMPANY



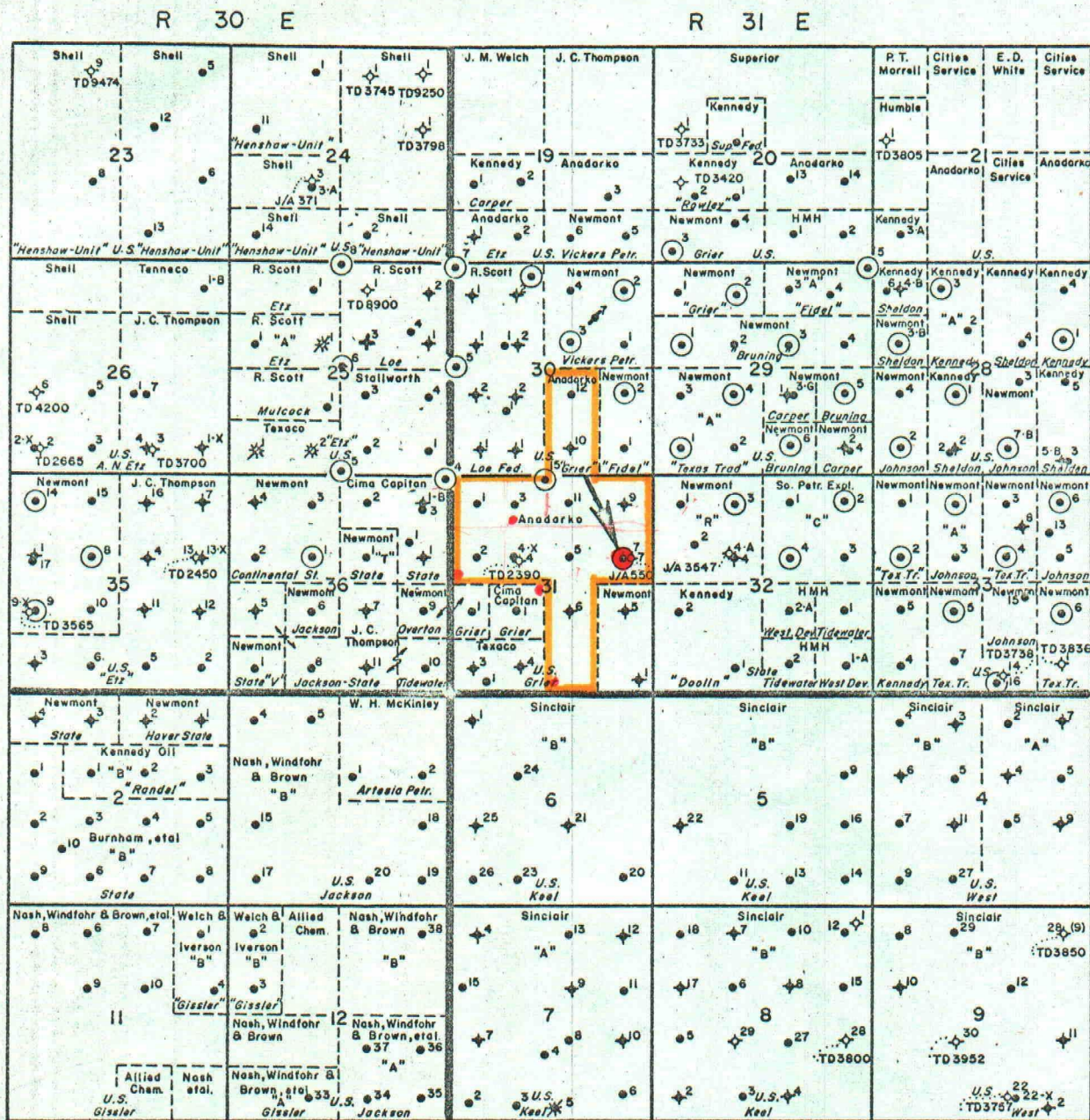
C.W. Stumhoffer  
Superintendent  
Secondary Recovery Division

CWS/nl

Encl:

cc: U.S.G.S. - Artesia  
Newmont Oil Company - Artesia  
Kennedy Oil Company - Artesia





T 16 S

T 17 S

LEGEND

- Oil Well
- ✦ Plugged & Abandoned
- ✧ Temporarily Abandoned
- ✧ Dry Abandoned
- ⊙ Water Injection Well



ANADARKO  
PRODUCTION COMPANY

PROPOSED WATER INJECTION WELL  
EDDY COUNTY, NEW MEXICO

SQUARE LAKE FIELD  
ANADARKO GRIER FEDERAL #7  
PREMIER SD. (GRAYBURG - ZONE 6)  
LOVINGTON SD. (SAN ANDRES - ZONE 8)

