

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

*Page # 409*

March 27, 1973

Anadarko Production Company  
Two Greenway Plaza East, Suite 410  
Houston, Texas 77046

Attention: Mr. D. G. Kernaghan

Re: Anadarko's Federal "R"  
Waterflood Project

Gentlemen:

New Mexico Oil Conservation Commission Order No. R-4049 established an administrative procedure whereby the Secretary-Director may approve the institution of a waterflood project on Anadarko's R lease in Section 10, Township 17 South, Range 30 East, NMPM, upon completion of an injection well on said lease. Inasmuch as Anadarko Production Company has complied with the terms of Order R-4049 by the completion of Federal "R" Well No. 7, located 660 feet FNL and 1900 feet FBL of said Section 10 as a water injection well, I hereby grant approval of a waterflood project designated the Anadarko Square Lake R Waterflood Project. The subject waterflood project shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: Oil Conservation Commission  
Drawer DD  
Artesia, New Mexico



OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

November 3, 1970

Mr. Jason Kellahin  
Kellahin & Fox  
Attorneys at Law  
Post Office Box 1769  
Santa Fe, New Mexico

Dear Sir:

Reference is made to Commission Order No. R-4049, recently entered in Case No. 4409, approving the Anadarko Square Lake JJ Waterflood Project and the Square Lake KK Waterflood Project.

Injection is to be through the three authorized water injection wells, each of which is to be equipped with a string of plastic-lined tubing set in a packer located between the Grayburg and San Andres zones. Injection into the San Andres shall be through the tubing while injection into the Grayburg shall be through the casing-tubing annulus.

Surface casing in all injection wells shall be set at a minimum of 400 feet beneath the surface with cement circulated.

As to allowable, our calculations indicate that when all of the authorized injection wells have been placed on active injection, the maximum allowable which the JJ project will be eligible to receive under the provisions of Rule 701-E-3 is 84 barrels per day when the Southeast New Mexico normal unit allowable is 42 barrels per day or less and the maximum for the KK project is 126 barrels per day.

Please report any error in this calculated maximum allowable immediately, both to the Santa Fe office of the Commission and the appropriate district proration office.

In order that the allowable assigned to the project may be kept current, and in order that the operator may fully benefit from the allowable provisions of Rule 701, it behooves him to promptly notify both of the aforesaid Commission offices by letter of any change in the status of wells in the project area, i.e., when active injection commences, when additional injection or producing wells are drilled, when additional wells are acquired through purchase or unitization, when wells have received a response to water injection, etc.

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-2-

Mr. Jason Kellahin  
Kellahin & Fox  
Attorneys at Law  
Post Office Box 1769  
Santa Fe, New Mexico

November 3, 1970

Your cooperation in keeping the Commission so informed as to the status of the project and the wells therein will be appreciated.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/DSN/ir

cc: Oil Conservation Commission  
Hobbs and Artesia, New Mexico

Mr. D. E. Gray, State Engineer Office  
Santa Fe, New Mexico

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STATE OF NEWMEXICO OIL CONSERVATION COMM=  
SANTEFE NMEX=

1970 AUG 17 PM 4 0/  
WE ARE AGREEABLE TO A COOPERATIVE WATERFLOOD OF ACREAGE  
IN SECTION 3 TOWNSHIP 17SOUTH RANGE 30 EAST SQUARE LAKE  
FIELD EDDY COUNTY NEWMEXICO AND WILL CONVERT STALLWORTH  
OIL AND GAS #4 PARKE WELL TO WATER INJECTION=  
STALLWORTH OIL AND GAS BY MR STALLWORTH JR OPERATOR.



**ANADARKO PRODUCTION COMPANY**

3109 WINTHROP AVENUE P. O. BOX 9317 FORT WORTH, TEXAS 76107

CABLE ADDRESS: ANDARK

September 3, 1970

Mr. D.S. Nutter  
New Mexico Oil Conservation Commission  
P.O. Box 2088  
Santa Fe, New Mexico 87501

SEP 6 1970

RE: Case 4409 - August 19, 1970  
Regular Hearing - Application  
Anadarko Production Company  
for Expansion Federal "Q"  
Waterflood Project, Square Lake  
Field, Eddy County, New Mexico

Dear Mr. Nutter:

As per your request at the August 19, 1970 Regular Hearing of the New Mexico Oil Conservation Commission pertaining to Case 4409 - Anadarko Production Company's application for expansion of its Federal "Q" Waterflood Project, Square Lake Field, Eddy County, New Mexico, we respectfully submit herewith three (3) corrected Exhibit IIs - diagrammatic sketches of typical water injection well completions on the proposed waterflood expansion.

Of the two diagrammatic sketches, one shows the proposed down-hole completion for water injection of Anadarko's Federal KK Well No. 1, a newly drilled water injection well. The second diagrammatic shows the proposed downhole completion for water injection of Anadarko's Federal KK Well No. 3, a producing well to be converted to water injection service.

These diagrammatic sketches are for two of the three wells proposed for water injection in the proposed waterflood expansion. The third

proposed water injection well is Federal JJ Well No. 2 located NW/4 SW/4 Section 3-T17S-R30E, a newly drilled well with a drilled total depth of 3114 feet.

8-5/8" O.D. surface casing in Federal JJ Well No. 2 was set at 443 feet and cemented with 200 sacks, and 4½" O.D. long string was set at 3105 feet and cemented with 250 sacks. Completion will be through perforations in the Grayburg-San Andres in a manner comparable to that shown on the diagrammatic sketch for Federal KK Well No. 1.

Should additional data be required to assist you in granting approval of this application, please advise this office.

Respectfully yours,

ANADARKO PRODUCTION COMPANY



C.W. Stumhoffer  
Superintendent  
Secondary Recovery Division

CWS/nl  
Encl: