

JUL 22 AM 10 29

BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION OF SHELL OIL COMPANY  
FOR APPROVAL OF A WATERFLOOD  
PROJECT IN THE NORTH SQUARE LAKE  
PREMIER UNIT AREA, EDDY COUNTY,  
NEW MEXICO. }

Case No. 3356

A P P L I C A T I O N

Comes now Shell Oil Company, by its attorneys, and requests approval of the waterflood project it proposes to conduct in the North Square Lake Unit Area, and in support of its application states:

1. By separate application Shell Oil Company is requesting approval of the North Square Lake Premier Unit Agreement covering 1,080 acres of federal, state and fee lands in T. 16 S., R. 31 E., Eddy County, New Mexico.

2. Shell Oil Company seeks approval of the New Mexico Oil Conservation Commission to institute a waterflood project in the North Square Lake Premier Unit area by the injection of water into the premier sand (a basal member of the Grayburg Formation) through thirteen wells located within the said unit area as shown on Exhibit No. 1-a attached to and made a part of this application.

3. Said Exhibit No. 1-a also shows the location of all other wells within two miles from the unit area, the formations in which those wells are completed, and lessees of record.

4. Attached to and made a part of this application are the logs of the proposed injection wells to the extent that they are available.

5. Attached to and made a part of this application are diagramatic sketches of the proposed injection wells.

6. It is estimated that approximately 2,600,000 barrels of water will be required for this project. The daily rate of injection will be 2,600 barrels or 170-200 barrels per well per

**DOCKET MAILED**

Date 12-1-65

day. This water will be purchased from either the Yucca Water Company or Double Eagle Water Company. An analysis of the water obtainable from both companies is attached to and made a part of this application.

7. Approval of this application will prevent waste and protect correlative rights.

WHEREFORE, Shell Oil Company requests that this application be set for hearing before the Commission or one of its examiners during the month of December, 1965, and that the Commission enter its order approving the waterflood project as requested herein.

SETH, MONTGOMERY, FEDERICI & ANDREWS

By *Sumner Greene*  
Attorneys for Shell Oil Company  
P. O. Box 2307  
Santa Fe, New Mexico

CERTIFICATE OF MAILING

The undersigned hereby certifies that on this 22nd day of November, 1965, a copy of this application, complete with all exhibits thereto, was mailed to Mr. Frank Irby, Chief, Water Rights Division, Office of the State Cengineer, Capitol Building, Santa Fe, New Mexico.

*Sumner Greene*