

BEFORE THE OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

APPLICATION OF ATLANTIC RICHFIELD COMPANY FOR APPROVAL OF A WATERFLOOD PROJECT IN CONNECTION WITH THE PROPOSED UNIT AGREEMENT FOR THE SEVEN RIVERS - QUEEN UNIT AREA EMBRACING 2262.36 ACRES OF STATE AND FEE LANDS IN TOWNSHIPS 22 AND 23 SOUTH, RANGE 36 EAST, LEA COUNTY, NEW MEXICO. APPLICANT PROPOSES TO INJECT WATER INTO THE BOTTOM 100 FEET OF THE SEVEN RIVERS FORMATION AND THE ENTIRE QUEEN FORMATION THROUGH 28 INJECTION WELLS. APPLICANT ALSO SEEKS ESTABLISHMENT OF ADMINISTRATIVE PROCEDURE WHEREBY THE LOCATION OF THE INJECTION WELLS MAY BE CHANGED.

Case 5017

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

Comes now Atlantic Richfield Company, acting by and through the undersigned attorneys, and hereby makes application for approval of a waterflood project in connection with the proposed unit agreement for the Seven Rivers - Queen Unit Area embracing 2262.36 acres of state and fee lands in Townships 22 and 23 South, Range 36 East, Lea County, New Mexico. Applicant proposes to inject water into the bottom 100 feet of the Seven Rivers formation and the entire Queen formation through 28 injection wells. Applicant also seeks establishment of administrative procedure whereby the location of the injection wells may be changed, and in support thereof respectfully shows:

1. Applicant is in the process of formulating a unit agreement covering the Seven Rivers - Queen Unit Area which embraces 662.36 acres of the lands of the State of New Mexico and 1600 acres of fee lands in Townships 22 and 23 South, Range 36 East, Lea County, New Mexico, said lands being more particularly described as follows:

Township 22 South, Range 36 East, N.M.P.M.
Section 27 - All
Section 34 - All
Section 35 - W $\frac{1}{2}$

DOCKET MAILED

Date 6/12/73

Township 23 South, Range 36 East, N.M.P.M.
Section 2 - N $\frac{1}{2}$
Section 3 - N $\frac{1}{2}$
containing 2262.36 acres, more or less

2. It is contemplated that applicant will be the unit operator under the terms of the unit agreement and the primary objective of the unit will be to formulate and put into effect a secondary recovery project in order to effect additional recovery of unitized substances, prevent waste and conserve natural resources consistent with good engineering practices.

3. There is attached hereto as Exhibit No. 1 a plat showing the outlines of the proposed unit area, the location of all wells producing from the Seven Rivers and Queen formations within the unit area and all other wells within a radius of two miles thereof and the formations from which the same are producing. This exhibit also indicates the ownership of the respective leases and the 28 proposed injection wells within the project area.

4. Applicant proposes to inject water into the unitized formation through the 28 injection wells indicated on Exhibit No. 1. It is anticipated that the injection of water will be started in all of the 28 wells at approximately the same time and that approximately 8,000 barrels of water per day will be injected. The water will be obtained from the Continental Oil Company - Danzinger Water Supply System which obtains saline water from the Capitan Reef. It is also anticipated that produced water from the project area will be reinjected.

5. There are filed herewith logs of the respective injection wells, together with diagrammatic sketches of each injection well showing all casing strings including diameters and setting depths, quantities used and tops of cement, perforated or open hole intervals, tubing strings including diameters and setting depths and the type and location of packers.

6. Applicant has made application for approval of the Seven Rivers - Queen Unit Agreement above referred to.

7. That applicant seeks the establishment of a project allowable in accordance with the provisions of Rule 701 of the Commission and also the establishment of an administrative procedure for any change in the injection wells which might prove to be necessary.

8. Applicant requests that this matter be set down for hearing at the examiner's hearing to be held on June ~~20~~²¹, 1973.

Respectfully submitted,

ATLANTIC RICHFIELD COMPANY

By


Member of the firm of
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Attorneys for Applicant