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September 24, 1970

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

*YJW*  
*Case 4440*

RE: MORAN OIL PRODUCING & DRILLING CORPORATION APPLICATION

Enclosed herewith you will find the Application of Moran Oil Producing & Drilling Corporation for a waterflood project and authority to inject water into one of its wells in the Hobbs Pool. It is my understanding that this will be placed upon the examiner's docket for October 14, 1970.

  
JAMES T. JENNINGS

JTJ/mb  
Encl.

cc: Moran Oil Producing & Drilling Corp.

RECEIVED

Date 10-2-70

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF  
MORAN OIL PRODUCING & DRILLING  
CORPORATION TO INSTITUTE A WATERFLOOD  
PROJECT AND TO INJECT WATER INTO THE  
GRAYBURG FORMATION THROUGH ITS RICE  
NO. 4 WELL LOCATED IN THE NW $\frac{1}{4}$ NE $\frac{1}{4}$   
SECTION 13, TOWNSHIP 18 SOUTH, RANGE  
37 EAST, N.M.P.M., LEA COUNTY, NEW  
MEXICO, IN THE HOBBS POOL.

*Case 4490*

APPLICATION

Comes now the applicant, Moran Oil Producing & Drilling Corporation, and hereby makes application for a waterflood project and for authority to inject water into the Grayburg formation in the Hobbs Pool pursuant to Rule 701 of the Rules and Regulations of the Commission and states:

1. Applicant is the owner and operator of the leases covering the NE $\frac{1}{4}$  Section 13, Township 18 South, Range 37 East, and the S $\frac{1}{2}$ NW $\frac{1}{4}$  Section 17, NW $\frac{1}{4}$  Section 18, Township 18 South, Range 38 East, in the Hobbs Pool, and has nine wells located thereon which are approaching an advanced state of depletion.

2. The applicant desires to convert its Rice No. 4 Well located in the NW $\frac{1}{4}$ NE $\frac{1}{4}$  Section 13 to a water injection well to determine the feasibility of instituting a waterflood project, and, if feasible, to institute such a waterflood project.

3. Applicant proposes to inject fresh water into the Grayburg formation into an open hole below the depth of 3930 feet and to inject approximately 300 barrels per well per day, which water is to be produced from the Ogalala formation from a well

which the applicant proposes to drill in the NE $\frac{1}{4}$ NW $\frac{1}{4}$  Section 13, Township 18 South, Range 37 East. If and when produced water becomes available, it will be commingled with fresh water.

4. In support of this application and in accordance with the provisions of Rule 701, applicant submits herewith the following exhibits:

(a) Exhibit A - A plat showing the location of the proposed injection well, location of the other wells and their ownership of all other leases within a two mile radius which are producing from the same formation and also showing the applicant's acreage within the area.

(b) Exhibit B - A diagramatic sketch of the injection well showing the tops of the cement, casing and depths.

(c) Exhibit C - The log of applicant's Rice No. 4 well located in the NW $\frac{1}{4}$ NE $\frac{1}{4}$  Section 13, Township 18 South, Range 37 East.

WHEREFORE, applicant requests the Commission set this matter down for hearing before an examiner at an early date, publish the Notice as required by law, and after hearing issue its Order (1) authorizing the waterflood project and injection of water into the Grayburg formation in applicant's Rice No. 4 Well located in the NW $\frac{1}{4}$ NE $\frac{1}{4}$  Section 13, Township 18 South, Range 37 East; and (2) establishing rules for the operation of the project within the area and for administrative expansion and conversion of additional wells to water injection wells.

Respectfully submitted,

MORAN OIL PRODUCING & DRILLING  
CORPORATION

By \_\_\_\_\_  
James T. Jennings, for  
Jennings, Christy & Copple  
Attorneys for Applicant  
P. O. Box 1180  
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## EXHIBIT B

### INJECTION WELL DIAGRAM

