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July 17, 1963

Mr. A. L. Porter, Jr.  
Secretary-Director  
New Mexico Oil Conservation Commission  
Box 871  
Santa Fe, New Mexico

Dear Mr. Porter:

We enclose in triplicate application of Humble Oil & Refining Company for approval of waterflood project covering Humble State "M" Lease in the Langlie-Mattix and Eumont Pools. You will also find enclosed as Exhibit "A" a plat showing the lease involved and Exhibits "B", "C", "D", "E", "F" and "G" respectively and being electrical logs of the six initial injection wells, also Exhibit "H" giving a description of the proposed injection wells casing program, and Exhibit "I" constituting a water analysis of the water which will be produced from the well from which water will be obtained for injection purposes.

We are anxious to have this matter set down for the first Examiner Hearing in August which we understand will be on August 7. Please let us have copy of Notice published in connection with the hearing.

Yours sincerely,

HERVEY, DOW & HINKLE

By 

CEH: ev

Encls.

cc: R. R. McCarty  
Manager  
Production Department  
Midland Area - Humble

cc: W. S. Davis - Humble

DOCKET MAILED

Date 7/29/63

BEFORE THE OIL CONSERVATION COMMISSION

OF THE STATE OF NEW MEXICO

APPLICATION OF HUMBLE OIL )  
& REFINING COMPANY FOR )  
APPROVAL OF WATERFLOOD )  
PROJECT PURSUANT TO RULE )  
701 COVERING HUMBLE'S )  
STATE "M" LEASE IN THE )  
LANGLIE-MATTIX AND EUMONT )  
POOLS EMBRACING 2240 ACRES )  
IN SECTIONS 19, 20, 29, 30 )  
and 31, TOWNSHIP 22 SOUTH, )  
RANGE 37 EAST, LEA COUNTY, )  
NEW MEXICO; FOR APPROVAL OF )  
PILOT WATERFLOOD INJECTION )  
INTO QUEEN FORMATION; FOR )  
ADMINISTRATIVE AUTHORITY TO )  
EXPAND THE PROJECT AND TO )  
TRANSFER LANDS WITHIN THE )  
PROJECT AREA WHICH ARE )  
WITHIN THE EUMONT POOL )  
LIMITS TO THE LANGLIE- )  
MATTIX POOL. )  
)

Case No. 21

APPLICATION

Comes the Humble Oil & Refining Company and hereby makes application for approval of a waterflood project pursuant to Rule 701 covering Humble's State "M" lease in the Langlie-Mattix and Eumont Pools embracing lands situated in Sections 19, 20, 29, 30 and 31, Township 22 South, Range 37 East, Lea County, New Mexico and for the inauguration of a pilot waterflood injection into the Queen formation at a depth of approximately 3600 feet in the wells hereinafter referred to and to provide for administrative approval of the expansion of said project and to transfer lands within the project area which are within the Eumont Pool limits to the Langlie-Mattix Pool, and in support thereof respectfully shows:

1. That there is filed herewith and made a part hereof and for purposes of identification marked Exhibit "A", a plat showing the State "M" lease of Humble covering All of Sections

19 and 30, and portions of Sections 20, 29 and 31, Township 22 South, Range 37 East, N.M.P.M. embracing approximately 2240 acres, Lea County, New Mexico, and also showing the location of the proposed injection wells and the location of all other wells within a radius of two miles from said proposed injection wells and the formation from which said wells are producing or have produced. The plat also shows the respective owners of the oil and gas leases within a radius of two miles of the proposed project area.

2. There are thirty-seven (37) wells located within the proposed project area, all of which are producing from the Queen formation at a depth of approximately 3600 feet. All of said wells have reached an advanced state of depletion and are regarded as what is commonly referred to as "stripper" wells.

It is proposed to inaugurate a pilot injection project by the injection of water into the Queen formation in the following wells:

State M 23	-	C-29-22-37✓
State M 26	-	E-29-22-37✓
State M 28	-	I-30-22-37✓
State M 31	-	A-30-22-37✓
State M 37	-	M-20-22-37✓
State M 38	-	G-30-22-37✓

There is filed herewith electrical logs of each of the initial injection wells above referred to and for purposes of identification marked Exhibits "B", "C", "D", "E", "F" and "G", respectively.

There is also filed herewith and made a part hereof Exhibit "H" giving a description of the proposed injection wells casing program.

3. It is contemplated that approximately 2000 barrels of water per day will be initially injected into the pilot area. The water will be obtained from a San Andres water well located

in the SE $\frac{1}{4}$ NW $\frac{1}{4}$  Section 29, Township 22 South, Range 37 East and there is filed herewith as Exhibit "I" a water analysis of the water which will be produced from said well.

4. That it is contemplated that if the pilot project above referred to is successful and that if response to water injection is experienced in offset wells, that the project will be expanded from time to time to embrace the entire project area, and it is believed to be in the interest of sound conservation practices that approval of such expansions from time to time by the Oil Conservation Commission be granted by administrative action.

5. That all of the lands in the proposed project area are within the limits of the Langlie-Mattix Pool limits except the following described lands which are within the Eumont Pool limits, to-wit:

Township 22 South, Range 37 East, N.M.P.M.

Section 19: All

Section 20: SW $\frac{1}{4}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$ SW $\frac{1}{4}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$

It is believed that it will simplify administration of the project for both applicant and the Commission to transfer the above described lands into the Langlie-Mattix Pool limits.


6. Applicant proposes to operate the pilot project as well as the entire project as the same may be expanded to include the entire project area as far as the allowable production is concerned as provided by Rule 701 of the Statewide Rules of the Oil Conservation Commission.

DATED this 16<sup>th</sup> day of July, 1963.

Respectfully submitted,

HERVEY, DOW & HINKLE

HUMBLE OIL & REFINING COMPANY

By   
P. O. Box 10  
Roswell, New Mexico  
Attorneys for Humble Oil &  
Refining Company

By 