

BEFORE THE OIL CONSERVATION COMMISSION

OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION
OF ANADARKO PRODUCTION COMPANY
FOR AUTHORITY TO EXPAND AND
COMPLETE WATERFLOOD DEVELOPMENT
OF THE LANGLIE-MATTIX PENROSE
SAND UNIT, LOCATED IN TOWNSHIP 22
SOUTH, RANGE 37 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO

CASE NO.

2591

A P P L I C A T I O N

COMES NOW the Applicant and alleges that:

1. It is the Operator of the Langlie-Mattix Penrose Sand Unit located within Township 22 South, Range 37 East, N.M.P.M., Lea County, New Mexico, and as such Operator makes this application for authority to expand and complete development of waterflood operations within said Unit.

2. It seeks approval to complete waterflood development in said Unit in three stages, the first stage to be accomplished upon this Commission entering an order approving this application, the second and third stages to be accomplished at 12-month intervals on or about July 1, 1968 and July 1, 1969 respectively.

3. Wells to be converted to and drilled and completed as water injection wells in the Penrose Sand common source of supply in said Langlie-Mattix Penrose Sand Unit in Township 22 South, Range 37 East, N.M.P.M., Lea County, New Mexico in said first stage are as follows:

<u>Well Number</u>	<u>Location</u>	<u>Section</u>	<u>Unit Letter Designation</u>	
09-1	SE SE	20-	P	225 37E
130-5	SE NW	27	F	
130-7	NW NE	27	B	
18-2	NW SW	26	L	
19-4	SE NE	27	H	
22-1	NW SW	27	L	
24-4	NW SE	28	J	
28-1	SE SW	28-	N	
28-4	NW SW	28-	L	
29-2	SE NE	29-	H	
31-1	SE NE	32-	H	
32-2	NW NW	33-	D	
33-1	SE NW	33	F	
35-3	NW NE	33	B	
38-1	NW NW	28-	D	
39-1	SE SE	29 -	P	

+ new wells by hearing

-1-

Subsiding coating? Cement lined CL 4000
insulation. Too l with Quast. House

With the exception of Well No. 24-4, it is proposed that all of the above listed wells will be converted from producing wells to water injection wells in said Penrose Sand at an approximate depth of 3,550 feet below surface. It is proposed that Well No. 24-4 be permitted to be drilled and completed as a water injection well in said Penrose Sand at an unorthodox location 1,330 feet from the east line and 1,330 feet from the south line (Unit J) of the above described Section 28. The water to be injected into the Penrose Sand is non-potable received from Skelly Oil Company's Jal Water System to be injected at the approximate rate of 500 barrels per well per day.

4. It is requested that of the above listed wells, Well Nos. 13C-5, 13C-7, 18-2, 19-4, 22-1, 24-4, 33-1 and 35-3 be granted administrative approval for conversion to water injection wells pursuant to this Commission's Rule 701-E-5, because the direct or diagonally offsetting wells have experienced response to water injection. It is proposed that Well Nos. 9-1, 28-1, 28-4, 29-2, 31-1, 32-2, 38-1 and 39-1 be permitted to be converted to water injection wells to meet obligations to Humble Oil & Refining Company and Skelly Oil Company, the operators of adjoining waterflood units.

5. The proposed plan of development of the balance of said Langlie-Mattix Penrose Sand Unit in two stages (the second on or about July 1, 1968 and the third on or about July 1, 1969), is outlined on Exhibit "F" attached hereto and made a part hereof, and it is requested that this procedure be approved as to staging and that wells to be utilized for water injection purposes be administratively approved as each stage is developed.

6. This Commission, by its Order No. R-2617 originally, authorized the creation of the Langlie-Mattix Penrose Sand Unit as a waterflood project, and the expansion and completion of waterflood development within said Unit is necessary to allow Applicant to prevent waste and promote the conservation of oil and gas.

7. Attached hereto and made a part hereof are the following Exhibits:

- (a) Exhibit "A", a plat showing the location of the proposed first stage injection wells and all other wells within a two-mile radius.
- (b) Exhibit "B", this Commission's Form C-116 (Gas-Oil Ratio Tests) executed by Applicant.
- (c) Exhibit "C", a diagrammatic sketch showing casing and tubing data for the proposed injection wells.
- (d) Exhibit "D", Casing and Cementing Record of wells to be converted to injection.
- (f) Exhibit "F", a map of the Unit Area showing injection wells in each proposed stage of development.

WHEREFORE, Applicant prays:

1. That this matter be set down for hearing before the Examiner;

2. That notice thereof be given as required by law;

3. That upon such hearing, this Commission enter an order authorizing the expansion and completion of said Langlie-Mattix Penrose Sand Unit and permit the requisite conversion of wells to injection wells and the drilling of the aforesaid well as a water injection well, and the injection of water into said Unit as herein set out.

ANADARKO PRODUCTION COMPANY

By T. J. Guinan
T. J. Guinan, Attorney
P. O. Box 9317
Fort Worth, Texas 76107

CERTIFICATE OF MAILING

STATE OF TEXAS)
) SS
COUNTY OF TARRANT)

T. J. Guinan, being first duly sworn, on oath deposes and states:

That he is attorney for Applicant herein and that, according to his best information and belief, the parties of interest and the addresses of such parties are as follows:

The State of New Mexico
State Engineer Office
State Capitol
Santa Fe, New Mexico 87501

Skelly Oil Company
P. O. Box 1650
Tulsa, Oklahoma 73101

Humble Oil and Refining Company Box 3128
Box 1600
Midland, Texas 79701

Mobil Oil Company
Houston, Texas 77001

That on May 3, 1967, a true and complete copy of the foregoing application, together with all exhibits, was mailed to such persons or firms at the addresses shown above, with postage thereon fully paid.

T. J. Guinan
T. J. Guinan

Subscribed and sworn to before me this 3rd day of May, 1967.

Virginia L. King
Notary Public

My Commission Expires:

6-1-67