

**OIL CONSERVATION COMMISSION**

P. O. BOX 2088

**SANTA FE, NEW MEXICO**

**February 14, 1967**

**Mercury Production Company  
Fort Worth National Bank Building  
Fort Worth, Texas**

**Gentlemen:**

**Enclosed herewith please find Administrative  
Order WFX-255 authorizing conversion of three wells to  
water injection wells in the Brown-Queen Water Flood  
Project in the Brown Pool in Chaves County, New Mexico.**

**Very truly yours,**

**A. L. PORTER, Jr.  
Secretary-Director**

**ALP/JEK/og**

**cc: Oil Conservation Commission - Artesia  
State Engineer Office - Santa Fe**

**COPY**

COMMISSION ON CONSERVATION

P.O. BOX 4088

MANITOWISH WISCONSIN

February 14, 1968

Dear Mr. [Name]:  
I am writing to you regarding the  
[Subject] [Subject] [Subject]

Very truly,  
[Signature]

I am writing to you regarding the  
[Subject] [Subject] [Subject]  
[Subject] [Subject] [Subject]  
[Subject] [Subject] [Subject]

Very truly,  
[Signature]

Sincerely,  
[Signature]

Very truly,  
[Signature]

Commission on Conservation - [Subject]  
[Subject] [Subject] [Subject]

APPLICATION OF MERCURY PRODUCTION  
COMPANY TO EXPAND ITS BROWN-QUEEN  
WATER FLOOD PROJECT IN THE BROWN  
POOL IN CHAVES COUNTY, NEW MEXICO.

Administrative Order  
WFX No. 255

ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION COMMISSION

Under the provisions of Order No. R-1433, Mercury Production Company has made application to the Commission on January 30, 1967, for permission to expand its Brown-Queen Water Flood Project in the Brown Pool, Chaves County, New Mexico.

NOW, on this 14th day of February, 1967, the Secretary-Director finds:

1. That application has been filed in due form.
2. That satisfactory information has been provided that all offset operators have been duly notified of the application.
3. That no objection has been received within the waiting period as prescribed by Order No. R-1433.
4. That the proposed injection wells are eligible for conversion to water injection under the terms of Order No. R-1433.
5. That the proposed expansion of the above-referenced water flood project will not cause waste nor impair correlative rights.
6. That the application should be approved.


IT IS THEREFORE ORDERED:

That the applicant, Mercury Production Company, be and the same is hereby authorized to inject water into the Queen formation through the following-described wells for purposes of secondary recovery, to wit:

State E-92 Well No. 13 located in Unit E, State E-92 Well No. 18 located in Unit F, and State E-92 Well No. 19 located in Unit C, all in Section 26, Township 10 South, Range 26 East, NMPM.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

  
A. L. PORTER, Jr.  
Secretary-Director

1. The first part of the paper is devoted to the study of the properties of the function  $f(x)$  defined by the equation

$$f(x) = \int_0^x f(t) dt + \int_0^x f(t) dt + \int_0^x f(t) dt$$

It is shown that the function  $f(x)$  is continuous and differentiable at every point  $x$  of the interval  $[0, 1]$ . The derivative of the function is given by the formula

$$f'(x) = f(x) + f(x) + f(x)$$

It is also shown that the function  $f(x)$  satisfies the differential equation

$$f'(x) = f(x) + f(x) + f(x)$$

with the initial condition  $f(0) = 0$ . The solution of this equation is given by the formula

$$f(x) = 0$$

It is also shown that the function  $f(x)$  is identically zero on the interval  $[0, 1]$ . The proof of this theorem is given in the appendix.

The second part of the paper is devoted to the study of the properties of the function  $f(x)$  defined by the equation

$$f(x) = \int_0^x f(t) dt + \int_0^x f(t) dt + \int_0^x f(t) dt$$

$$f(x) = \int_0^x f(t) dt + \int_0^x f(t) dt + \int_0^x f(t) dt$$