

*Case 1974*

May 11, 1960

State Engineer of New Mexico  
Santa Fe  
New Mexico

Gentlemen:

In accordance with Memorandum No. 5-58 of the New Mexico Oil Conservation Commission, enclosed herewith please find Application of C. T. Robertson for permission to institute a waterflood project in the Coyote Queen Pool in Chaves County, New Mexico.

The Application shows the location of the water source, and the name and depth of the formation from which water is to be obtained.

Also, enclosed is a copy of an analysis of the water proposed to be utilized in the waterflood project. As shown in the Application, it is proposed to use fresh water, provided that if the flood does not respond to the fresh water, then it is anticipated that salt water might be utilized.

Attached to the copy of the Application transmitted herewith are copies of the logs of two wells, being the Honolulu State Nos. 3 and 4. In addition, there were submitted to the Commission logs of Honolulu State No. 1 and Honolulu State "B" No. 3 Wells. If duplicate copies of these logs are desired, please let me know and we will attempt to obtain duplicates for your use. If you could utilize the logs submitted to the Commission, we would not then otherwise obtain duplicates of these two logs. In addition, attempts are being made to obtain logs of the other wells into which it is proposed to inject. If logs can be obtained on the other two wells, we will furnish them to you.

If there are any questions pertaining to this Application, please let us hear from you.

Very truly yours,

HERVEY, DOW & HINKLE

By 

HCB:db  
Enclosures

GOVERNOR  
JOHN BURROUGHS  
CHAIRMAN

State of New Mexico  
Oil Conservation Commission

LAND COMMISSIONER  
MURRAY E. MORGAN  
MEMBER



STATE GEOLOGIST  
A. L. PORTER, JR.  
SECRETARY DIRECTOR

P. O. BOX 871  
SANTA FE

Hervey, Dow & Hinkle  
Box 547  
Roswell, New Mexico

June 7, 1960

Attention: Mr. Clarence Hinkle

Gentlemen:

Enclosed herewith is Commission Order No. R-1688, entered in Case No. 1974, approving the Robertson-Coyote-Queen Water Flood Project.

According to our calculations, when all of the authorized injection wells have been placed on active injection, the maximum allowable which this project will be eligible to receive under the provisions of Rule 701-E-3 is 350 barrels per day.

Please report any error in this calculated maximum allowable immediately, both to the Santa Fe office of the Commission and the appropriate District proration office.

In order that the allowable assigned to the project may be kept current, and in order that the operator may fully benefit from the allowable provisions of Rule 701, it behooves him to promptly notify both of the aforementioned Commission offices by letter of any change in the status of wells in the project area, i.e., when active injection commences, when additional injection or producing wells are drilled, when additional wells are acquired through purchase or unitization, when wells have received a response to water injection, etc.

Your cooperation in keeping the Commission so informed as to the status of the project and the wells therein will be appreciated.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

BEFORE EXAMINER UTZ	
OIL CONSERVATION COMMISSION	
<i>Case</i>	EXHIBIT NO. <u>5</u>
<i>Case</i>	CASE NO. <u>1974</u>

**WATER ANALYSIS**

	Whaley Co. Sec. 10, T.11 S., R. 27 E.	Chisum Pool Sec. 13, T. 11 S. R. 27 E.
Formation	Yates	Devonian
Depth	150'	6700'

Chemical Analysis - PPM

	7.4	7.0
pH		
Total Alkalinity as CaCO <sub>3</sub>	104	770
Supersaturation as CaCO <sub>3</sub>	2	30
Calcium	1540	1560
Magnesium	360	332
Barium	None	None
Sodium	51	13800
Chloride	57	24250
Sulphate	1755	375
Iron	0.6	0.4
Total dissolved solids	2690	41100
Carbon Dioxide	8.3	200
Hydrogen Sulphide	None	1.5