

April 30, 1957

Magnolia Petroleum Company  
P. O. Box 2406  
Hobbs, New Mexico

Attention: Mr. W. C. Dougherty

Re: Application for Dual Completion  
of Magnolia Petroleum Co. Cheney-  
Federal #2 in the NE Section 8-  
26N-2W, Rio Arriba County, N. M.

Dear Mr. Dougherty:

This letter will serve as tentative approval for the dual completion as a Gas-Gas Dual of the above well in the Pictured Cliffs and Mesaverde formations. It is understood the well will be equipped as set out in your application.

Upon completion, application for final approval should be made to Mr. A. L. Porter, Jr., as set out in Rule 112.

Yours very truly,

Emery C. Arnold  
Supervisor, District #3

ECA/rc

cc: Mr. A. L. Porter  
O.C.C., Santa Fe, N. M.

## THEORY

The following is a list of the  
theoretical results obtained in  
this paper.

### 1. INTRODUCTION

The purpose of this paper is to  
study the properties of the  
operator  $T$  defined by  
 $Tf(x) = \int_0^x f(t) dt$ .

Let  $f$  be a function defined on

the interval  $[0, 1]$ . We assume that  
 $f$  is continuous and that  
 $f(0) = 0$ . We define the operator  
 $T$  by  $Tf(x) = \int_0^x f(t) dt$ .

It is easy to see that  $T$  is a linear operator  
and that  $T^2 f(x) = \int_0^x \int_0^t f(s) ds dt$ .

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