

December 6, 1974

Mr. Thomas F. Brashear
El Paso Natural Gas Company
P. O. Box 1492
El Paso, TX 79978

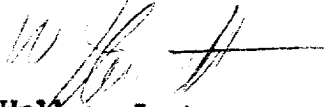
Re: Gallegos Canyon Unit Wells
Nos. 53 and 58 0-35-28-12 ✓
M - 36-28-12
San Juan Co., New Mexico

Dear Mr. Brashear:

Having soaped and blown wells down to remove water from well bore, we find that they are capable of producing at the average rate of 2.0 MMCF/month from each well. Therefore, we request that you reinstall metering equipment and put these two subject wells back on production.

Yours very truly,

CLINTON OIL COMPANY


Wallace J. Averett
Production Manager
Rocky Mountain Division

WJA/vf

cc: Mr. Emory C. Arnold

1. Introduction

The purpose of this paper is to study the properties of the function $f(x)$ defined by the equation

$$f(x) = \frac{1}{x} \int_0^x f(t) dt, \quad x > 0.$$

It is known that

the function $f(x)$ is continuous and differentiable for all $x > 0$. Moreover, it satisfies the differential equation

$$f'(x) = -f(x).$$

Therefore, the function $f(x)$ is of the form

$$f(x) = Ce^{-x}.$$

Since $f(1) = 1$, we have $C = e$. Hence

the function $f(x)$ is given by the formula

$$f(x) = e^{-x}.$$