

P. O. Box 965
Farmington, New Mexico

April 2, 1956

Southern Union Gas Company
1001 Burt Building
Dallas, Texas

Re: Santa Fe 079616

Gentlemen:

Receipt is acknowledged of your "Notice of Intention to Drill" dated March 30, 1956 covering your well No. 1 McCroden in SW 1/4 sec. 3, T. 25 N., R. 3 W., N. M. P. M., Rio Arriba County, New Mexico, Wildcat pool.

Your proposed work is hereby approved subject to compliance with the provisions of the "Oil and Gas Operating Regulations" revised May 25, 1942, a copy of which will be sent to you on request, and subject to the following conditions:

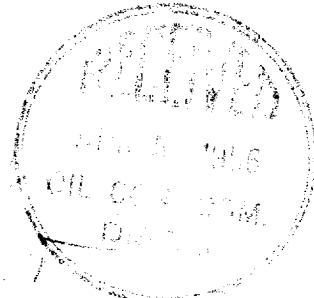
1. Drilling operations so authorized are subject to the attached sheet for general conditions of approval.
2. Furnish copies of all logs.

Very truly yours,

(Signature)

Jerry W. Long
Acting District Engineer

JWLong:ac



Handwritten notes:
7/12/56
720 acre
[unclear]
[unclear]



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

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

It is shown that the function $f(x)$ is continuous and differentiable on the interval $[0, 1]$ and that it satisfies the differential equation

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

and that

It is also shown that the function $f(x)$ is the unique solution of the differential equation $f'(x) = f(x)$ satisfying the initial condition $f(0) = 1$. The function $f(x)$ is called the exponential function and is denoted by e^x .

The function $f(x)$ is also called the function of natural growth. It is the function that describes the growth of a quantity at a constant rate. The function $f(x)$ is the unique solution of the differential equation $f'(x) = f(x)$ satisfying the initial condition $f(0) = 1$.

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