

# AZTEC OIL & GAS COMPANY

P. O. DRAWER 570  
FARMINGTON, NEW MEXICO

September 8, 1964

New Mexico Oil Conservation Commission  
1000 Rio Brazos Road  
Aztec, New Mexico

Gentlemen:

The following is the deviation record for Aztec Oil & Gas Company's Holder Unit "A" 1 well located in Section 6-T30N-R12W, San Juan County, New Mexico.

1 degree at 305 feet  
1 degree at 770 feet  
3/4 degree at 1489 feet  
3/4 degree at 2270 feet  
1/4 degree at 3235 feet  
1/4 degree at 3554 feet  
1-3/4 degrees at 3900 feet  
1-1/2 degrees at 4300 feet  
1-1/2 degrees at 4742 feet  
1 degree at 5400 feet  
1/2 degree at 6030 feet

Yours truly,

AZTEC OIL & GAS COMPANY

*Don Miller*

Don Miller

Sworn to me this

the 8<sup>th</sup> day of September

1964.

*Lila Jean Kittrell*  
Lila Jean Kittrell

My commission expires November 5, 1966.

DM/ab



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

$$f(x) = \frac{1}{x} \int_0^x f(t) dt$$

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

$$x^2 f''(x) + x f'(x) - f(x) = 0$$

It is also shown that

$$f(x) = \frac{1}{x} \ln x + C$$

where

$$C = \frac{1}{2} \int_0^1 \frac{f(t)}{t} dt$$

and

$$f(x) = \frac{1}{x} \ln x + \frac{1}{2} \int_0^1 \frac{f(t)}{t} dt$$

It is also shown that

$$f(x) = \frac{1}{x} \ln x + \frac{1}{2} \int_0^1 \frac{f(t)}{t} dt$$