

NEW MEXICO OIL CONSERVATION COMMISSION  
1000 Rio Brazos Road  
Aztec, New Mexico  
June 28, 1967

U.S.G.S.  
P.O. Box 959  
Farmington, New Mexico

Gentlemen:

Notice of Intention to Drill was filed on Thomas A. Dugan, Shiprock #7,  
located C-14-30N-18W. ~~No further information has been re-~~  
~~ceived.~~ Please indicate status of well.

\_\_\_\_\_ Location abandoned, well was never spudded.

\_\_\_\_\_ Drilling well.

\_\_\_\_\_ Work completed, completion forms to follow.

Remarks:

Please send Status report on the above well.

*T.D. 380*

*LP 571 MCRD*

*AP 607*

*S 17.08*

*Report made to NMCC 5-18-67*

Very truly yours,

*Ernest A. Ames*  
District #3, Supervisor

cc: Thomas A. Dugan  
NMOCC, Santa Fe



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

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

It is well known that this function is the arctangent function, i.e.  $f(x) = \arctan x$ . The first part of the paper is devoted to the study of the properties of this function. In particular, it is shown that the function is odd, i.e.  $f(-x) = -f(x)$ , and that it is increasing on the whole real line. The second part of the paper is devoted to the study of the properties of the function  $f(x)$  defined by the equation

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