

NEW MEXICO STATE LAND OFFICE  
OFFICE OF THE STATE GEOLOGIST  
SANTA FE, NEW MEXICO

### MISCELLANEOUS REPORTS ON WELLS

Submit this report in duplicate to the State Geologist or proper Oil and Gas Inspector within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of water shut-off, result of abandonment of well, and other important operations, even though the work was witnessed by the State Geologist or Oil and Gas Inspector. Reports on minor operations need not be signed and sworn to before a notary public, but such operations should be witnessed by an Oil and Gas Inspector if possible.

Indicate nature of report by checking below:

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON DEEPENING WELL	
REPORT ON RESULT OF SHOOTING WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF WATER SHUT-OFF		REPORT ON REPAIRING WELL	X
REPORT ON RESULT OF ABANDONMENT OF WELL			

Mr. E. H. Davis State Geologist, PLACE \_\_\_\_\_ DATE \_\_\_\_\_  
 Santa Fe, N. Mex.  
 Following is a report on the work done and the results obtained under the heading noted above at the  
Barnesdale Well No. 1 in the  
SW COMPANY OR OPERATOR of Sec. 2, T. 35, R. 5, N. M. P. M.,  
Oil Field, County.  
 The dates of this work were as follows: 4-12-34  
 Notice of intention to do the work was (was not) submitted on Form SG \_\_\_\_\_ on  
 \_\_\_\_\_, 1934, and approval of the proposed plan was (was not) obtained. (Cross  
 out incorrect words.)

#### DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

*[Faint, illegible handwritten text in the detailed account section]*

ILLEGIBLE

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_.

NOTARY PUBLIC.

My commission expires \_\_\_\_\_

I hereby swear or affirm that the information given above is true and correct.

Name [Signature]  
 Position [Signature]  
 Representing [Signature]  
 Address \_\_\_\_\_ COMPANY OR OPERATOR.

Remarks:

NAME

TITLE

MAY 17 1934  
 APPROVED AND  
[Signature]

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. Moreover, it is shown that the function has a horizontal asymptote at  $y = \pm \frac{\pi}{2}$  as  $x \rightarrow \pm \infty$ .

The second part of the paper is devoted to the study of the function  $f(x)$  defined by the equation

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