

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

Submit this report in triplicate to the Oil Conservation Commission or its proper agent 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 casing shut-off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below:

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

Hobbs, New Mexico September 28, 1936
Place Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the _____

Skelly Oil Company State "N" Well No. 2 in the
Company or Operator Lease
NB/4, NE/4 of Sec. 29 T. 19 R. 37 N. M. P. M.,
Monument Field, Lea County.

The dates of this work were as follows: September 17, 1936

Notice of intention to do the work was ~~was not~~ submitted on Form C-102 on Sept. 17 1936

and approval of the proposed plan was ~~was not~~ obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Drilled plug, bailed hole, let stand, and tested for casing shut-off in 7" OD casing set at 3809' with 300 sacks cement. Water shut-off tested OK. Now drilling ahead.

Witnessed by C. I. Woodroof Davidson Drilling Company Foreman
Name Company Title

Subscribed and sworn to before me this 28

day of Sept. 1936

Alvin H. Mahoney
Notary Public

My Commission expires Oct. 24, 1939

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

Name [Signature]

Position Dist. Superintendent

Representing Skelly Oil Company
Company or Operator

Address Hobbs, New Mexico

Remarks:

[Signature]
Name
Title

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 shown that the function $f(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. The limits of the function as $x \rightarrow \pm\infty$ are found to be $\pm\frac{\pi}{2}$. The function is also shown to be odd, i.e., $f(-x) = -f(x)$. The derivative of the function is found to be $f'(x) = \frac{1}{1+x^2}$. The second part of the paper is devoted to the study of the function $g(x)$ defined by the equation

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

It is shown that the function $g(x)$ is an odd function, i.e., $g(-x) = -g(x)$. The limits of the function as $x \rightarrow \pm\infty$ are found to be $\pm\frac{\pi}{2}$. The derivative of the function is found to be $g'(x) = \frac{x}{1+x^2}$.

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

$$h(x) = \int_0^x \frac{1}{1+t^4} dt.$$

It is shown that the function $h(x)$ is an even function, i.e., $h(-x) = h(x)$. The limits of the function as $x \rightarrow \pm\infty$ are found to be $\pm\frac{\pi}{2}$. The derivative of the function is found to be $h'(x) = \frac{1}{1+x^4}$.

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

$$k(x) = \int_0^x \frac{t^2}{1+t^4} dt.$$

It is shown that the function $k(x)$ is an odd function, i.e., $k(-x) = -k(x)$. The limits of the function as $x \rightarrow \pm\infty$ are found to be $\pm\frac{\pi}{2}$. The derivative of the function is found to be $k'(x) = \frac{x^2}{1+x^4}$.

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

$$l(x) = \int_0^x \frac{1}{1+t^6} dt.$$

It is shown that the function $l(x)$ is an even function, i.e., $l(-x) = l(x)$. The limits of the function as $x \rightarrow \pm\infty$ are found to be $\pm\frac{\pi}{2}$. The derivative of the function is found to be $l'(x) = \frac{1}{1+x^6}$.

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

$$m(x) = \int_0^x \frac{t^4}{1+t^6} dt.$$

It is shown that the function $m(x)$ is an odd function, i.e., $m(-x) = -m(x)$. The limits of the function as $x \rightarrow \pm\infty$ are found to be $\pm\frac{\pi}{2}$. The derivative of the function is found to be $m'(x) = \frac{x^4}{1+x^6}$.