

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELL

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-offs, 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	XXXXX	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

Odessa, Texas

January 19, 1939

Place

Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

DUPLICATE

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

Phillips Petroleum Company

M. C. Woolworth

Well No. 4

in the

Company or Operator

Lease

E/2

of Sec. 33

T. 24-S

R. 37-E

N. M. P. M.,

Mattix

Field, Lea

County

The dates of this work were as follows:

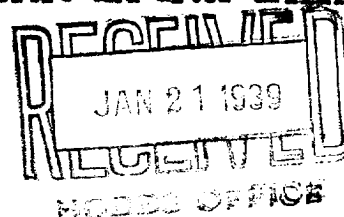
January 18, 1939

Notice of intention to do the work was (~~XXXXXX~~) submitted on Form C-102 on January 16, 1939
and approval of the proposed plan was (~~XXXXXX~~) obtained. (Cross out incorrect words)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

T. D. 3353 Lime. Tested 7" casing with 1100# water pressure before and after drilling cement plug.

Water shut-off satisfactory.



Witnessed by L. L. Smith Phillips Petroleum Company Lease Foreman
Name Company Title

Subscribed and sworn to before me this

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

19th day of January, 1939

Name

District Chief Clerk

Position

Notary Public

Representing Phillips Petroleum Company

Company or Operator

My Commission expires

6-1-31

Address

Drawer 811, Odessa, Texas

Remarks:

A. ANDREAS
State Geologist
Member Oil Conservation Commission

R.M.

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 $(-\infty, \infty)$. Moreover, the function $f(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(0, \frac{\pi}{2})$.

2. In the second part of the paper, we study the properties of the function $g(x)$ defined by the equation

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

It is shown that the function $g(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. Moreover, the function $g(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(0, \frac{\pi}{4})$. The function $g(x)$ is also shown to be symmetric about the y-axis.

3. In the third part of the paper, we study the properties of the function $h(x)$ defined by the equation

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

It is shown that the function $h(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. Moreover, the function $h(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(0, \frac{\pi}{6})$.

4. In the fourth part of the paper, we study the properties of the function $k(x)$ defined by the equation

$$k(x) = \int_0^x \frac{1}{1+t^8} dt.$$

It is shown that the function $k(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. Moreover, the function $k(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(0, \frac{\pi}{8})$.

5. In the fifth part of the paper, we study the properties of the function $l(x)$ defined by the equation

$$l(x) = \int_0^x \frac{1}{1+t^{10}} dt.$$

It is shown that the function $l(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. Moreover, the function $l(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(0, \frac{\pi}{10})$.

6. In the sixth part of the paper, we study the properties of the function $m(x)$ defined by the equation

$$m(x) = \int_0^x \frac{1}{1+t^{12}} dt.$$

It is shown that the function $m(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. Moreover, the function $m(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(0, \frac{\pi}{12})$.