

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	<input checked="" type="checkbox"/>	REPORT ON REPAIRING WELL	<input type="checkbox"/>
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL	<input type="checkbox"/>	REPORT ON PULLING OR OTHERWISE ALTERING CASING	<input type="checkbox"/>
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	<input type="checkbox"/>	REPORT ON DEEPENING WELL	<input type="checkbox"/>
REPORT ON RESULT OF PLUGGING OF WELL	<input type="checkbox"/>		

Odessa, Texas March 16, 1939
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

Phillips Petroleum Company M.C. Woolworth Well No. 5 in the
Company or Operator Lease

SW/4 SE/4 of Sec. 33, T. 24-S, R. 37-E, N. M. P. M.,

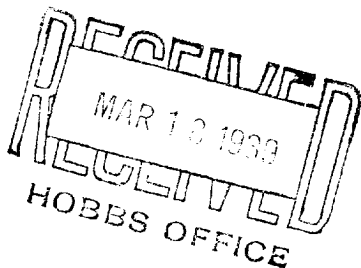
Mattix Field, Lea County

The dates of this work were as follows: March 15, 1939

Notice of intention to do the work was ~~submitted~~ submitted on Form C-102 on January 10, 1939
and approval of the proposed plan was ~~obtained~~ obtained. (Cross out incorrect words)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Spudded 3:00 PM March 15, 1939.



DUPLICATE

Witnessed by W.M. Schul Phillips Petroleum Company Lease Foreman
Name Company Title

Subscribed and sworn to before me this

16th day of March, 1939

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

Name *J. J. Fernandez Jr.*

Position District Chief Clerk

Representing Phillips Petroleum Company
Company or Operator

My Commission expires

Address Drawer 811, Odessa, Texas

Remarks:

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

2. The second part of the paper is devoted to the study of 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 $(-\frac{\pi}{4}, \frac{\pi}{4})$.

3. The third part of the paper is devoted to the study of 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 $(-\frac{\pi}{6}, \frac{\pi}{6})$.

4. The fourth part of the paper is devoted to the study of 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 $(-\frac{\pi}{8}, \frac{\pi}{8})$.

5. The fifth part of the paper is devoted to the study of 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 $(-\frac{\pi}{10}, \frac{\pi}{10})$.

6. The sixth part of the paper is devoted to the study of 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 $(-\frac{\pi}{12}, \frac{\pi}{12})$.

7. The seventh part of the paper is devoted to the study of the properties of the function $n(x)$ defined by the equation

$$n(x) = \int_0^x \frac{1}{1+t^{14}} dt.$$

It is shown that the function $n(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. Moreover, the function $n(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(-\frac{\pi}{14}, \frac{\pi}{14})$.

8. The eighth part of the paper is devoted to the study of the properties of the function $o(x)$ defined by the equation

$$o(x) = \int_0^x \frac{1}{1+t^{16}} dt.$$

It is shown that the function $o(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. Moreover, the function $o(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(-\frac{\pi}{16}, \frac{\pi}{16})$.

9. The ninth part of the paper is devoted to the study of the properties of the function $p(x)$ defined by the equation

$$p(x) = \int_0^x \frac{1}{1+t^{18}} dt.$$

It is shown that the function $p(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. Moreover, the function $p(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(-\frac{\pi}{18}, \frac{\pi}{18})$.

10. The tenth part of the paper is devoted to the study of the properties of the function $q(x)$ defined by the equation

$$q(x) = \int_0^x \frac{1}{1+t^{20}} dt.$$

It is shown that the function $q(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. Moreover, the function $q(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(-\frac{\pi}{20}, \frac{\pi}{20})$.

11. The eleventh part of the paper is devoted to the study of the properties of the function $r(x)$ defined by the equation

$$r(x) = \int_0^x \frac{1}{1+t^{22}} dt.$$

It is shown that the function $r(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. Moreover, the function $r(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(-\frac{\pi}{22}, \frac{\pi}{22})$.

12. The twelfth part of the paper is devoted to the study of the properties of the function $s(x)$ defined by the equation

$$s(x) = \int_0^x \frac{1}{1+t^{24}} dt.$$

It is shown that the function $s(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. Moreover, the function $s(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(-\frac{\pi}{24}, \frac{\pi}{24})$.

13. The thirteenth part of the paper is devoted to the study of the properties of the function $t(x)$ defined by the equation

$$t(x) = \int_0^x \frac{1}{1+t^{26}} dt.$$

It is shown that the function $t(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. Moreover, the function $t(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(-\frac{\pi}{26}, \frac{\pi}{26})$.

14. The fourteenth part of the paper is devoted to the study of the properties of the function $u(x)$ defined by the equation

$$u(x) = \int_0^x \frac{1}{1+t^{28}} dt.$$