

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	☒	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

Lovington, New Mexico. 10--21--39.

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

Magnolia Petroleum Co.

Brunsen-Argo

Well No. **5** in the

Company or Operator

Lease

SE $\frac{1}{4}$ NW $\frac{1}{4}$

of Sec. **10**

T. **22S**

R. **37E**

, N. M. P. M.,

Penrose

Field,

Lea

County

The dates of this work were as follows: **10-15-39**

Notice of intention to do the work was (~~was not~~) submitted on Form C-102 on **10-14-39** 19.....
and approval of the proposed plan was (~~was not~~) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Testing 9-5/8" Casing set at 1145' Drilled plug built pressure up to 1000# Set 1 Hr. Casing Tested OK.

Witnessed by **Allen Bray**
Name

Magnolia Wm. Cameron Co., Bookkeeper
Company Title

Subscribed and sworn to before me this

21st day of **October**, 19**39**

Roy Garbrough
Notary Public

My Commission expires **5/28/42**.

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

Name **R. Garbrough**

Position **Supt.**

Representing **Magnolia Petroleum Co.,**

Company or Operator

Address **Box 68, Lovington, New Mexico.**

Remarks:

Roy Garbrough
Name
OIL & GAS INSPECTOR

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 $(0, \frac{\pi}{2})$.

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

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

It is shown that the function $g(x)$ is an odd function and is increasing 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. In the third part of the paper, we study the properties of the function $h(x)$ defined by the equation

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

It is shown that the function $h(x)$ is an even function and is increasing on the interval $(-\infty, \infty)$. Moreover, the function $h(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(0, \frac{\pi}{2})$.

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

$$k(x) = \int_0^x \frac{t^3}{1+t^2} dt.$$

It is shown that the function $k(x)$ is an odd function and is increasing on the interval $(-\infty, \infty)$. Moreover, the function $k(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(-\frac{\pi}{4}, \frac{\pi}{4})$.

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

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

It is shown that the function $l(x)$ is an even function and is increasing on the interval $(-\infty, \infty)$. Moreover, the function $l(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(0, \frac{\pi}{2})$.

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

$$m(x) = \int_0^x \frac{t^5}{1+t^2} dt.$$

It is shown that the function $m(x)$ is an odd function and is increasing on the interval $(-\infty, \infty)$. Moreover, the function $m(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(-\frac{\pi}{4}, \frac{\pi}{4})$.

7. In the seventh part of the paper, we study the properties of the function $n(x)$ defined by the equation

$$n(x) = \int_0^x \frac{t^6}{1+t^2} dt.$$

It is shown that the function $n(x)$ is an even function and is increasing on the interval $(-\infty, \infty)$. Moreover, the function $n(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(0, \frac{\pi}{2})$.

8. In the eighth part of the paper, we study the properties of the function $o(x)$ defined by the equation

$$o(x) = \int_0^x \frac{t^7}{1+t^2} dt.$$

It is shown that the function $o(x)$ is an odd function and is increasing on the interval $(-\infty, \infty)$. Moreover, the function $o(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(-\frac{\pi}{4}, \frac{\pi}{4})$.