

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	X	REPORT ON DEEPENING WELL
REPORT ON RESULT OF PLUGGING OF WELL		

Midland, Texas

July 10, 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

Humble Oil & Refining Company **N.M. State "K"** Well No. **6** in the
 Company or Operator
Center of SE/4 of SE/4 of Sec. **32**, T. **18-South**, R. **35-East**, N. M. P. M.,
Vacuum Field, **Lea** County

The dates of this work were as follows: **July 10, 1939**

Notice of intention to do the work was ~~(was not)~~ submitted on Form C-102 on **July 9,** 19**39**
 and approval of the proposed plan was ~~(was not)~~ obtained. (Cross out incorrect words)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

5-1/2" casing tested O. K. under 1200# cold water pressure. Drilled plug on July 10, 1939.

No change in methods previously specified on Form C-102.

Witnessed by **No Witness Appeared**

Name

Company

Title

Subscribed and sworn to before me this **10th**

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

day of **July**, 19**39**

Name

Position

Representing

Company or Operator

My Commission expires

6/1/41

Address

Box 1600 - Midland, Texas.

Remarks:

Ray Harkrath
 Name
 OIL & GAS INSPECTION
 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. 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 increasing and concave up on the interval $(-\infty, \infty)$. Moreover, the function $g(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(-\frac{\pi}{2}, \frac{\pi}{2})$.

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

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

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

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