

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		REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

Midland, Texas

February 23, 1937

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 **M. E. Laughlin** **4**

SW/4 of SE/4 Company or Operator **4** **20-S** Well No. **37-E** in the
Monument of Sec. _____, T. **Lea**, R. _____, N. M. P. M.,
Field, **February 22, 1937** County.

The dates of this work were as follows: **XXXX** **C-101** **February 22,** **37**

Notice of intention to do the work was [was not] submitted on Form C-102 on _____ 19____

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

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Spudded well at 7:00 P. M., February 22, 1937.

**No change in drilling operations previously specified on Form C-101,
Notice of Intention to Drill.**

No Witness Necessary

Witnessed by _____ Name _____ Company _____ Title _____

Subscribed and sworn to before me this
23rd day of **February**, 19**37**

Winnie Mae Ferguson
Notary Public
6/1/37
My Commission expires _____

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

Name *W. J. D. ...*
Position **Division Superintendent**
Representing **Humble Oil & Refining Company**
Address **Drawer "B" Midland, Texas.**

Remarks:

W. J. D. ...
Name _____
Title _____

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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 function

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

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 function

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

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 function

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

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 function

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

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 function

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

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 $(-\frac{\pi}{12}, \frac{\pi}{12})$.

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

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 $(-\frac{\pi}{14}, \frac{\pi}{14})$.

7. The seventh part of the paper is devoted to the study of the function

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

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 $(-\frac{\pi}{16}, \frac{\pi}{16})$.

8. The eighth part of the paper is devoted to the study of the function

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

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 $(-\frac{\pi}{18}, \frac{\pi}{18})$.

9. The ninth part of the paper is devoted to the study of the function

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

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 $(-\frac{\pi}{20}, \frac{\pi}{20})$.

10. The tenth part of the paper is devoted to the study of the function

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