

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	X
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,

Place

February 23, 1943

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 John Williams Well No. 2 in the _____
Company or Operator Lease
SE 1/4 of NW 1/4 of Sec. 34, T. 24-S, R. 37-E, N. M. P. M.,
Mattix Field, Lee County.

The dates of this work were as follows: Feb. 8, 1943 to Feb. 22, 1943, inclusive
Notice of intention to do the work was (~~warrant~~) submitted on Form C-102 on Feb. 8 19 43
and approval of the proposed plan was (~~warrant~~) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Cleaned hole out to bottom at 3505'. Ran 316' of 5-1/2" perforated liner to bottom at 3505'.
Ran 3189' of 2" tubing with 2" X 6' perforated nipple on bottom. Swabbed well in. On 3-hr.
test well flowed 25.73 bbls. oil. Gas volume 31.7 MCF, GOR 1232. Tubing pressure 20#, casing
pressure 220#. No change in method previously specified on Form C-102.

Witnessed by _____
Name Company Title

Subscribed and sworn before me this 23rd

day of February, 19 43

Willie Mae Ferguson
Notary Public

My commission expires 6-1-43

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

Name R. H. Krumm

Position Asst. Division Superintendent

Representing Humble Oil & Refining Company
Company or Operator

Address Box 1600, Midland, Texas

Remarks:

Roy Yarbrough
Name
Title

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

$$f(x) = \int_0^x \frac{1}{1+t^2} dt, \quad x \in \mathbb{R}.$$

It is shown that $f(x)$ is an odd function, i.e., $f(-x) = -f(x)$, and that it is strictly increasing on \mathbb{R} . Moreover, it is proved that $f(x)$ is bounded on \mathbb{R} , with the limits $\lim_{x \rightarrow -\infty} f(x) = -\frac{\pi}{2}$ and $\lim_{x \rightarrow \infty} f(x) = \frac{\pi}{2}$.

12. The second part of the paper is devoted to the study of the function $g(x)$ defined by the equation

$$g(x) = \int_0^x \frac{1}{1+t^4} dt, \quad x \in \mathbb{R}.$$

It is shown that $g(x)$ is an even function, i.e., $g(-x) = g(x)$, and that it is strictly increasing on \mathbb{R} . Moreover, it is proved that $g(x)$ is bounded on \mathbb{R} , with the limits $\lim_{x \rightarrow -\infty} g(x) = 0$ and $\lim_{x \rightarrow \infty} g(x) = \frac{\pi}{4}$.

13. The third part of the paper is devoted to the study of the function $h(x)$ defined by the equation

$$h(x) = \int_0^x \frac{1}{1+t^6} dt, \quad x \in \mathbb{R}.$$

It is shown that $h(x)$ is an even function, i.e., $h(-x) = h(x)$, and that it is strictly increasing on \mathbb{R} . Moreover, it is proved that $h(x)$ is bounded on \mathbb{R} , with the limits $\lim_{x \rightarrow -\infty} h(x) = 0$ and $\lim_{x \rightarrow \infty} h(x) = \frac{\pi}{6}$.

14. The fourth part of the paper is devoted to the study of the function $k(x)$ defined by the equation

$$k(x) = \int_0^x \frac{1}{1+t^8} dt, \quad x \in \mathbb{R}.$$

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It is shown that $k(x)$ is an even function, i.e., $k(-x) = k(x)$, and that it is strictly increasing on \mathbb{R} . Moreover, it is proved that $k(x)$ is bounded on \mathbb{R} , with the limits $\lim_{x \rightarrow -\infty} k(x) = 0$ and $\lim_{x \rightarrow \infty} k(x) = \frac{\pi}{8}$.

15. The fifth part of the paper is devoted to the study of the function $l(x)$ defined by the equation

$$l(x) = \int_0^x \frac{1}{1+t^{10}} dt, \quad x \in \mathbb{R}.$$

It is shown that $l(x)$ is an even function, i.e., $l(-x) = l(x)$, and that it is strictly increasing on \mathbb{R} . Moreover, it is proved that $l(x)$ is bounded on \mathbb{R} , with the limits $\lim_{x \rightarrow -\infty} l(x) = 0$ and $\lim_{x \rightarrow \infty} l(x) = \frac{\pi}{10}$.

16. The sixth part of the paper is devoted to the study of the function $m(x)$ defined by the equation

$$m(x) = \int_0^x \frac{1}{1+t^{12}} dt, \quad x \in \mathbb{R}.$$

It is shown that $m(x)$ is an even function, i.e., $m(-x) = m(x)$, and that it is strictly increasing on \mathbb{R} . Moreover, it is proved that $m(x)$ is bounded on \mathbb{R} , with the limits $\lim_{x \rightarrow -\infty} m(x) = 0$ and $\lim_{x \rightarrow \infty} m(x) = \frac{\pi}{12}$.

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

$$n(x) = \int_0^x \frac{1}{1+t^{14}} dt, \quad x \in \mathbb{R}.$$

It is shown that $n(x)$ is an even function, i.e., $n(-x) = n(x)$, and that it is strictly increasing on \mathbb{R} . Moreover, it is proved that $n(x)$ is bounded on \mathbb{R} , with the limits $\lim_{x \rightarrow -\infty} n(x) = 0$ and $\lim_{x \rightarrow \infty} n(x) = \frac{\pi}{14}$.

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

$$o(x) = \int_0^x \frac{1}{1+t^{16}} dt, \quad x \in \mathbb{R}.$$

It is shown that $o(x)$ is an even function, i.e., $o(-x) = o(x)$, and that it is strictly increasing on \mathbb{R} . Moreover, it is proved that $o(x)$ is bounded on \mathbb{R} , with the limits $\lim_{x \rightarrow -\infty} o(x) = 0$ and $\lim_{x \rightarrow \infty} o(x) = \frac{\pi}{16}$.

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

$$p(x) = \int_0^x \frac{1}{1+t^{18}} dt, \quad x \in \mathbb{R}.$$

It is shown that $p(x)$ is an even function, i.e., $p(-x) = p(x)$, and that it is strictly increasing on \mathbb{R} . Moreover, it is proved that $p(x)$ is bounded on \mathbb{R} , with the limits $\lim_{x \rightarrow -\infty} p(x) = 0$ and $\lim_{x \rightarrow \infty} p(x) = \frac{\pi}{18}$.

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

$$q(x) = \int_0^x \frac{1}{1+t^{20}} dt, \quad x \in \mathbb{R}.$$

It is shown that $q(x)$ is an even function, i.e., $q(-x) = q(x)$, and that it is strictly increasing on \mathbb{R} . Moreover, it is proved that $q(x)$ is bounded on \mathbb{R} , with the limits $\lim_{x \rightarrow -\infty} q(x) = 0$ and $\lim_{x \rightarrow \infty} q(x) = \frac{\pi}{20}$.

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

$$r(x) = \int_0^x \frac{1}{1+t^{22}} dt, \quad x \in \mathbb{R}.$$

It is shown that $r(x)$ is an even function, i.e., $r(-x) = r(x)$, and that it is strictly increasing on \mathbb{R} . Moreover, it is proved that $r(x)$ is bounded on \mathbb{R} , with the limits $\lim_{x \rightarrow -\infty} r(x) = 0$ and $\lim_{x \rightarrow \infty} r(x) = \frac{\pi}{22}$.

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

$$s(x) = \int_0^x \frac{1}{1+t^{24}} dt, \quad x \in \mathbb{R}.$$

It is shown that $s(x)$ is an even function, i.e., $s(-x) = s(x)$, and that it is strictly increasing on \mathbb{R} . Moreover, it is proved that $s(x)$ is bounded on \mathbb{R} , with the limits $\lim_{x \rightarrow -\infty} s(x) = 0$ and $\lim_{x \rightarrow \infty} s(x) = \frac{\pi}{24}$.