

NE. 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 Casing OF 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	

Hobbs, New Mexico. August 1936.

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 _____

Hobbs Gulf Oil Corporation - Gypsy Division G.C. Matthews Well No. 5 in the
Company or Operator

SE/4 of Sec. 6 T. 20s R. 37e N. M. P. M.,
Monterey Field, La. County.

The dates of this work were as follows: Treated 8-24-36 Tested 8- -1936.

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

On August 24th, 1936 the well was treated with 2000 Gallons Dowell X Solution followed w/15 Barrels Oil.

No Test on well before treatment. 148 1/2 barrels oil in 5 hours w/8 million gas, thru 2" Tubing.
Production test after treatment - Swabbed dry.

Note - Will re-acidize.

Witnessed by _____ Name _____ Company _____ Title _____

Subscribed and sworn to before me this 31

day of August, 19 36

Patricia Mahoney
Notary Public

My Commission expires Oct 24th, 1936

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

Name P. D. Deane

Position District Superintendent

Representing Gulf Oil Corporation

Company or Operator
Address Hobbs, New Mexico.

Remarks:

[Signature]
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 $(-\infty, \infty)$. The function $f(x)$ is also shown to be bounded on the interval $(-\infty, \infty)$. The function $f(x)$ is also shown to be continuous on the interval $(-\infty, \infty)$.

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

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

It is shown that the function $g(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. The function $g(x)$ is also shown to be bounded on the interval $(-\infty, \infty)$.

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

$$h(x) = \int_0^x \frac{1}{1+t^2} dt + \int_0^x \frac{1}{1+t^4} dt + \int_0^x \frac{1}{1+t^6} dt.$$

It is shown that the function $h(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. The function $h(x)$ is also shown to be bounded on the interval $(-\infty, \infty)$.

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

$$k(x) = \int_0^x \frac{1}{1+t^2} dt + \int_0^x \frac{1}{1+t^4} dt + \int_0^x \frac{1}{1+t^6} dt + \int_0^x \frac{1}{1+t^8} dt.$$

It is shown that the function $k(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. The function $k(x)$ is also shown to be bounded on the interval $(-\infty, \infty)$.

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

$$l(x) = \int_0^x \frac{1}{1+t^2} dt + \int_0^x \frac{1}{1+t^4} dt + \int_0^x \frac{1}{1+t^6} dt + \int_0^x \frac{1}{1+t^8} dt + \int_0^x \frac{1}{1+t^{10}} dt.$$

It is shown that the function $l(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. The function $l(x)$ is also shown to be bounded on the interval $(-\infty, \infty)$.

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

$$m(x) = \int_0^x \frac{1}{1+t^2} dt + \int_0^x \frac{1}{1+t^4} dt + \int_0^x \frac{1}{1+t^6} dt + \int_0^x \frac{1}{1+t^8} dt + \int_0^x \frac{1}{1+t^{10}} dt + \int_0^x \frac{1}{1+t^{12}} dt.$$

It is shown that the function $m(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. The function $m(x)$ is also shown to be bounded on the interval $(-\infty, \infty)$.

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

$$n(x) = \int_0^x \frac{1}{1+t^2} dt + \int_0^x \frac{1}{1+t^4} dt + \int_0^x \frac{1}{1+t^6} dt + \int_0^x \frac{1}{1+t^8} dt + \int_0^x \frac{1}{1+t^{10}} dt + \int_0^x \frac{1}{1+t^{12}} dt + \int_0^x \frac{1}{1+t^{14}} dt.$$

It is shown that the function $n(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. The function $n(x)$ is also shown to be bounded on the interval $(-\infty, \infty)$.

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

$$o(x) = \int_0^x \frac{1}{1+t^2} dt + \int_0^x \frac{1}{1+t^4} dt + \int_0^x \frac{1}{1+t^6} dt + \int_0^x \frac{1}{1+t^8} dt + \int_0^x \frac{1}{1+t^{10}} dt + \int_0^x \frac{1}{1+t^{12}} dt + \int_0^x \frac{1}{1+t^{14}} dt + \int_0^x \frac{1}{1+t^{16}} dt.$$

It is shown that the function $o(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. The function $o(x)$ is also shown to be bounded on the interval $(-\infty, \infty)$.

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

$$p(x) = \int_0^x \frac{1}{1+t^2} dt + \int_0^x \frac{1}{1+t^4} dt + \int_0^x \frac{1}{1+t^6} dt + \int_0^x \frac{1}{1+t^8} dt + \int_0^x \frac{1}{1+t^{10}} dt + \int_0^x \frac{1}{1+t^{12}} dt + \int_0^x \frac{1}{1+t^{14}} dt + \int_0^x \frac{1}{1+t^{16}} dt + \int_0^x \frac{1}{1+t^{18}} dt.$$

It is shown that the function $p(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. The function $p(x)$ is also shown to be bounded on the interval $(-\infty, \infty)$.

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

$$q(x) = \int_0^x \frac{1}{1+t^2} dt + \int_0^x \frac{1}{1+t^4} dt + \int_0^x \frac{1}{1+t^6} dt + \int_0^x \frac{1}{1+t^8} dt + \int_0^x \frac{1}{1+t^{10}} dt + \int_0^x \frac{1}{1+t^{12}} dt + \int_0^x \frac{1}{1+t^{14}} dt + \int_0^x \frac{1}{1+t^{16}} dt + \int_0^x \frac{1}{1+t^{18}} dt + \int_0^x \frac{1}{1+t^{20}} dt.$$

It is shown that the function $q(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. The function $q(x)$ is also shown to be bounded on the interval $(-\infty, \infty)$.