

NEW

CO OIL CONSERVATION COM.

ON

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

Wink, Texas
Place6-17-37
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

The Atlantic Refining Company State **6** Well No. **2** in the
Company or Operator Lease
660' FNL & 660' FNL of Sec. **32**, T. **20 S**, R. **37 E**, N. M. P. M.,
Runice Field, **Lea** County.

The dates of this work were as follows: **5-24-37**

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

Casing shut-off test on 7 5/8" intermediate string.

Cement was allowed to set 36 hours. It was then tested
according to state regulations.

Witnessed by **F.J. Bryan** Name **Repelle Oil Company** Company Title

Subscribed and sworn to before me this **the****17th** day of **June**, 19 **37**

Notary Public

My Commission expires **6-1-39**

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

Name **[Signature]**Position **Superintendent**Representing **The Atlantic Refining Company**
Company or OperatorAddress **P.O. Box 876 Wink, Texas**

Remarks:

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 $(-\infty, \infty)$. Moreover, the function $f(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(0, \pi/2)$.

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

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

It is shown that the function $g(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. Moreover, the function $g(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(0, \pi/2 + \pi/4)$.

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

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

It is shown that the function $h(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. Moreover, the function $h(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(0, \pi/2 + \pi/4 + \pi/6)$.

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

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

It is shown that the function $k(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. Moreover, the function $k(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(0, \pi/2 + \pi/4 + \pi/6 + \pi/8)$.

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

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

It is shown that the function $l(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. Moreover, the function $l(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(0, \pi/2 + \pi/4 + \pi/6 + \pi/8 + \pi/10)$.

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

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

It is shown that the function $m(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. Moreover, the function $m(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(0, \pi/2 + \pi/4 + \pi/6 + \pi/8 + \pi/10 + \pi/12)$.

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

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

It is shown that the function $n(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. Moreover, the function $n(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(0, \pi/2 + \pi/4 + \pi/6 + \pi/8 + \pi/10 + \pi/12 + \pi/14)$.

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

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

It is shown that the function $o(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. Moreover, the function $o(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(0, \pi/2 + \pi/4 + \pi/6 + \pi/8 + \pi/10 + \pi/12 + \pi/14 + \pi/16)$.