

DUPLICATE

## OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

## MISCELLANEOUS REPORTS ON WELLS

RECEIVED  
JUN 8 1944  
RECEIVED

HOBBS OFFICE

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	<input checked="" type="checkbox"/>	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.

Place

June 7th, 1944.

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

Samedan Oil Corporation.

Turner B

Well No. 2

in the

of Sec.

34

T.

18

R.

38

N. M. P. M.,

Hobbs

Field,

Lea

County.

The dates of this work were as follows:

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

Acidized with 250 gallons on June 6th, 1944.

June 6th, 1944, results of acid treatment, 16 bbls of oil per hour.

Witnessed by

L.W. Biddick

Name

Samedan Oil Corporation. Vice-Pres.

Company

Title

Subscribed and sworn before me this

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

7th

day of

June

19

44.

Name

Position

Supt.

Representing

Samedan Oil Corporation.

Company or Operator

My commission expires

Feb. 10, 1945

Address

Box 1637, Hobbs, New Mexico.

Remarks:

Roy Yenchroch

Name

DR. &amp; GAS INSPECTOR

Title

1. The first part of the paper is devoted to the study of the

properties of the function

$$f(x) = \sum_{n=0}^{\infty} \frac{a_n}{n!} x^n$$

where  $a_n$  are the coefficients of the power series. The main result of this part is the following theorem:

**Theorem 1.** Let  $f(x)$  be a function satisfying the conditions

(1)  $f(x) > 0$  for all  $x$  in the interval  $(0, \infty)$ ;

(2)  $f'(x) > 0$  for all  $x$  in the interval  $(0, \infty)$ ;

(3)  $f''(x) > 0$  for all  $x$  in the interval  $(0, \infty)$ ;

then the function  $f(x)$  is strictly increasing and concave up on the interval  $(0, \infty)$ .

The proof of this theorem is based on the fact that the function  $f(x)$  is the sum of a series of positive terms, and the derivatives of  $f(x)$  are also sums of positive terms. This implies that  $f(x)$  is strictly increasing and concave up on the interval  $(0, \infty)$ .

2.

The second part of the paper is devoted to the study of the

properties of the function

$$g(x) = \sum_{n=0}^{\infty} \frac{b_n}{n!} x^n$$

where

$b_n$

are the

coefficients

of the

power

series.

The

main

result

of

this

part

is

the

following

theorem:

**Theorem**

**2.** Let

$g(x)$

be

a

function

satisfying

the

conditions

(1)

$g(x) > 0$

for

all

$x$

in

the

interval

$(0, \infty)$ ;

(2)

$g'(x) > 0$