

**DUPLICATE**

**NEW MEXICO OIL CONSERVATION COMMISSION**

**Santa Fe, New Mexico**

**MISCELLANEOUS REPORTS ON WELL**

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-offs, 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	X	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

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 \_\_\_\_\_

**Shell Oil Company, Inc.** State **"B"** Well No. **1** in the \_\_\_\_\_  
Company or Operator Lease  
**SE/4/SW4** of Sec. **6** T. **17-South**, R. **33-East**, N. M. P. M.,  
**East Maljamar** 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**

Loaded hole with oil. Bridged hole from 4274 to 4224'.

Shot from 4210 to 4224 with 60 quarts nitroglycerin, tamped with 1/2 yard gravel. Cleaned out to 4224'. Let stand 48 hours; after bailing dry recovered 7 gallons dead oil.

Witnessed by O.L. Nuernberger Shell Oil Co., Inc. Dist. Supt.  
Name Company Title

Subscribed and sworn to before me this \_\_\_\_\_

18th day of May, 19 44

[Signature]  
Notary Public

My Commission expires \_\_\_\_\_

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

Name O.L. Nuernberger

Position District Superintendent

Representing SHELL OIL COMPANY, Inc.  
Company or Operator

Address Box 1457, Hobbs, N.M.

Remarks:

Roy Yarrborough  
Name  
OIL & GAS INSPECTOR  
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

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

It is shown that the function  $f(x)$  is strictly increasing and concave down on the interval  $(-\infty, \infty)$ . Moreover, it is proved that the function  $f(x)$  has a horizontal asymptote at  $y = \frac{\pi}{2}$  as  $x \rightarrow \pm\infty$ .

2. In the second part of the paper, we consider 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 the function  $g(x)$  is strictly increasing and concave down on the interval  $(-\infty, \infty)$ . Moreover, it is proved that the function  $g(x)$  has a horizontal asymptote at  $y = \frac{\pi}{4}$  as  $x \rightarrow \pm\infty$ .

3. In the third part of the paper, we consider 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 the function  $h(x)$  is strictly increasing and concave down on the interval  $(-\infty, \infty)$ . Moreover, it is proved that the function  $h(x)$  has a horizontal asymptote at  $y = \frac{\pi}{6}$  as  $x \rightarrow \pm\infty$ .

4. In the fourth part of the paper, we consider the function  $k(x)$  defined by the equation

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

It is shown that the function  $k(x)$  is strictly increasing and concave down on the interval  $(-\infty, \infty)$ . Moreover, it is proved that the function  $k(x)$  has a horizontal asymptote at  $y = \frac{\pi}{8}$  as  $x \rightarrow \pm\infty$ .

5. In the fifth part of the paper, we consider 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 the function  $l(x)$  is strictly increasing and concave down on the interval  $(-\infty, \infty)$ . Moreover, it is proved that the function  $l(x)$  has a horizontal asymptote at  $y = \frac{\pi}{10}$  as  $x \rightarrow \pm\infty$ .

6. In the sixth part of the paper, we consider the function  $m(x)$  defined by the equation

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