

## NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

## MISCELLANEOUS NOTICES

Submit this notice in TRIPLICATE to the District Office, Oil Conservation Commission, before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Notice by Checking Below

NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO TEMPORARILY ABANDON WELL		NOTICE OF INTENTION TO DRILL DEEPER	
NOTICE OF INTENTION TO PLUG WELL		NOTICE OF INTENTION TO PLUG BACK		NOTICE OF INTENTION TO SET LINER	
NOTICE OF INTENTION TO SQUEEZE		NOTICE OF INTENTION TO ACIDIZE		NOTICE OF INTENTION TO SHOOT (Nitro)	
NOTICE OF INTENTION TO GUN PERFORATE		NOTICE OF INTENTION (OTHER)		NOTICE OF INTENTION (OTHER)	<b>X</b>

OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

Artesia, New Mexico

(Place)

February 8, 1962

(Date)

Gentlemen:

Following is a Notice of Intention to do certain work as described below at the.....

Carper Drilling Company, Inc.

State MA "E"

Well No. 1 in A

(Company or Operator)

NE NE 36 17 S LEASE 32 E Corbin - Abo

(Unit)

(40-acre Subdivision)

Pool

Lee County.

FULL DETAILS OF PROPOSED PLAN OF WORK  
(FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS)

To perforate 5 1/2" casing at 6,500' and cement behind casing from 6,500' to 3,500' covering the Glorieta, San Andres, grayburg and Queen zones. We will use 400 sacks cement. We will then put back on production from the present completion.

Approved....., 19.....  
Except as follows:Approved  
OIL CONSERVATION COMMISSION

By.....

Title.....

CARPER DRILLING COMPANY, INC.

Company or Operator

By *J. M. Hester*

Position Vice-President

Send Communications regarding well to:

Name Carper Drilling Company, Inc.

Address Artesia, New Mexico

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

$$f(x) = \frac{1}{x} \int_0^x f(t) dt$$

It is shown that the function  $f(x)$  is continuous and differentiable on the interval  $(0, \infty)$ .

$$f'(x) = -\frac{1}{x^2} \int_0^x f(t) dt + \frac{1}{x} f(x)$$

It is also shown that the function  $f(x)$  satisfies the differential equation

$$x^2 f''(x) + x f'(x) - f(x) = 0$$

The general solution of this equation is

$$f(x) = C_1 x + C_2 x^{-1}$$

where  $C_1$  and  $C_2$  are arbitrary constants.