

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	X
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)	X	NOTICE OF INTENTION (OTHER)	

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Abilene, Texas
(Place)

June 10, 1955
(Date)

Gentlemen:

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

GENERAL CRUDE OIL COMPANY* James H. Simpson Well No. 1 in (Unit)
(Company or Operator)
NW 1/4 NE 1/4 of Sec. 21, T-10-S, R-23-E, NMPM, Wildcat Pool
(40-acre Subdivision)
Guadalupe County.

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

1. Re-enter the temporarily abandoned hole and wash to bottom.
2. Set and cement an intermediate string of casing at approximately 3100 feet.
3. Deepen the well to the basement granite. Estimated depth at which this formation will be encountered is not known.

* Formerly La Mance Drilling Company, No. 1 James H. Simpson. See Form C-103
filed same date as above.

Approved..... JUNE 13, 1955
Except as follows:

GENERAL CRUDE OIL COMPANY
Company or Operator
By..... F. A. Hunter F. A. Hunter
Position..... District Production Supt.
Send Communications regarding well to:

Approved
OIL CONSERVATION COMMISSION
By..... Samuel P. Hunter
Title..... PETROLEUM ENGINEER

Name GENERAL CRUDE OIL COMPANY
Address 314 Commerce Bldg., Abilene, Texas

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

$$f(x) = \int_0^x \frac{1}{1+t^2} dt$$
 and to the proof of the following theorem:

The function $f(x)$ is continuous and strictly increasing on the interval $(-\infty, \infty)$. Moreover, it satisfies the functional equation

$$f(x) + f\left(\frac{1}{x}\right) = \frac{\pi}{2}$$
 for all $x \neq 0$.

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

$$g(x) = \int_0^x \frac{1}{1+t^4} dt$$
 and to the proof of the following theorem:

The function $g(x)$ is continuous and strictly increasing on the interval $(-\infty, \infty)$. Moreover, it satisfies the functional equation

$$g(x) + g\left(\frac{1}{x}\right) = \frac{\pi}{2}$$
 for all $x \neq 0$.