

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

MISCELLANEOUS NOTICES

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent 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 its 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 TEST CASING SHUT-OFF	<input checked="" type="checkbox"/>	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL			

Hobbs, New Mexico
Place

11/7/39
Date

OIL CONSERVATION COMMISSION,
 Santa Fe, New Mexico.
 Gentlemen:

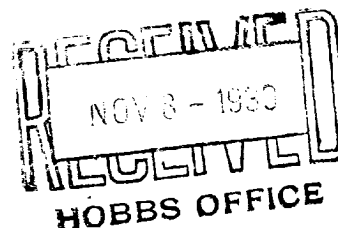
Following is a notice of intentiton to do certain work as described below at the _____

Tide Water Assoo Oil Company. State **"N"** Well No. **1** in **SET**
 Company or Operator Lease
 of Sec. **36**, T. **16**, R. **36**, N. M. P. M., **South Lovington** Field,
Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

8-5/8"OD Casing was set at 3003' in 11" hole with 250-sacks cement. 1400# pressure will be pumped on casing before and after drilling plug, plug was on bottom at 10:0'Clock PM 11/7/39, at the end of 48-hours or at approx 10: 0'Clock 11/9/39 we will test casing.



Approved NOV 8 1939, 19____
 except as follows:

Tide Water Associated Oil Company
 Company or Operator

By Elmer Lamb - L.S.
 Position **Prod Sup't**

Send communications regarding well to

Name **Elmer Lamb**

Address **Drawer KK, Hobbs, New Mexico.**

OIL CONSERVATION COMMISSION,

By Roy Garbrough

Title _____

OIL & GAS INSPECTOR

PROBLEM 10

Let $f(x)$ be a function defined on the interval $[0, 1]$ such that $f(0) = 0$ and $f(1) = 1$. Suppose that $f(x)$ is continuous on $[0, 1]$ and that $f(x)$ is differentiable on $(0, 1)$. Prove that there exists a point $c \in (0, 1)$ such that $f'(c) = 1$.

Consider the function $g(x) = f(x) - x$. Then $g(0) = f(0) - 0 = 0$ and $g(1) = f(1) - 1 = 0$. Since $f(x)$ is continuous on $[0, 1]$, $g(x)$ is also continuous on $[0, 1]$. Since $f(x)$ is differentiable on $(0, 1)$, $g(x)$ is also differentiable on $(0, 1)$. By Rolle's Theorem, there exists a point $c \in (0, 1)$ such that $g'(c) = 0$. But $g'(x) = f'(x) - 1$, so $f'(c) - 1 = 0$, which implies $f'(c) = 1$.

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