

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			

Ft. Worth, Texas  
Place

January 5, 1937  
Date

OIL CONSERVATION COMMISSION,  
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the \_\_\_\_\_

A. R. Eppenauer Frances B. Stewart Well No. 1 in \_\_\_\_\_  
Company or Operator Lease  
of Sec. 22, T. 25-S, R. 37-E, N. M. P. M., Stewart Field,  
Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

Expect to test water shut-off of 8-5/8" casing cemented on top of salt  
at 1228 feet, and cemented with 250 sacks.

Approved JAN 14 1937, 19\_\_\_\_\_  
except as follows:

A. R. Eppenauer  
Company or Operator  
By R. F. Smith  
Position Geologist  
Send communications regarding well to  
Name A. R. Eppenauer  
Address 1503 Trinity Life Building  
Fort Worth, Texas

OIL CONSERVATION COMMISSION,  
By [Signature]  
Title Secretary

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY  
PHYSICAL CHEMISTRY

1. The first part of the experiment is devoted to the study of the temperature dependence of the rate constant for the reaction of hydrogen peroxide with iodide ions in the presence of ceric ions as a catalyst. The reaction is carried out in a series of solutions of varying concentrations of the reactants and the catalyst. The rate of reaction is measured by the appearance of a color due to the formation of iodine. The data are plotted as  $\ln k$  versus  $1/T$  and a straight line is obtained. The slope of this line is used to determine the activation energy of the reaction.

2. The second part of the experiment is devoted to the study of the effect of the concentration of the reactants on the rate of reaction. The reaction is carried out in a series of solutions of varying concentrations of the reactants and the catalyst. The rate of reaction is measured by the appearance of a color due to the formation of iodine. The data are plotted as  $\ln k$  versus  $\ln C$  and a straight line is obtained. The slope of this line is used to determine the order of reaction with respect to each reactant.

3. The third part of the experiment is devoted to the study of the effect of the concentration of the catalyst on the rate of reaction. The reaction is carried out in a series of solutions of varying concentrations of the reactants and the catalyst. The rate of reaction is measured by the appearance of a color due to the formation of iodine. The data are plotted as  $\ln k$  versus  $\ln C_{cat}$  and a straight line is obtained. The slope of this line is used to determine the order of reaction with respect to the catalyst.

4. The fourth part of the experiment is devoted to the study of the effect of the concentration of the reactants on the rate of reaction. The reaction is carried out in a series of solutions of varying concentrations of the reactants and the catalyst. The rate of reaction is measured by the appearance of a color due to the formation of iodine. The data are plotted as  $\ln k$  versus  $\ln C$  and a straight line is obtained. The slope of this line is used to determine the order of reaction with respect to each reactant.