

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS NOTICES

MAR 1 - 1940

Submit this notice in triplicate to the Oil 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 Commissioner or agent, of the plan submitted. The plan as approved should be followed and work should not begin until approval is obtained. Additional instructions in the Rules and Regulations of the Commission.

Indicate by check 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 DEEPEN WELL		NOTICE OF INTENTION TO PLUG WELL	

Smith, New Mexico

February 28, 1940

Place

Date

OIL CONSERVATION COMMISSION,

Santa Fe, New Mexico.

Gentlemen:

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

Aston & Fair State 1-A Well No. SE SE
 Company or Operator Lease
 of Sec. 36, T. 17 S, R. 29 E, N. M. P. M., Loco Hills Field,
Eddy County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

Plan to set 2840' of 7"OD seamless casing 70' in the line and cement with 100 sacks of cement using Gibson cementing equipment, also mud with 5 tons of mud.

After waiting 72 hours for cement to set plan to drill plug and test water shut-off with a four hour bailing test.

MAR 1 - 1940

Approved _____, 19____
 except as follows:

Aston & Fair

Company or Operator

By E. C. AshtonPosition Bookkeeper

Send communications regarding well to

Name Aston & FairAddress Box # 218, Smith, New Mexico.

OIL CONSERVATION COMMISSION,

By Roy YarrroughTitle OIL & GAS INSPECTOR

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
RESEARCH REPORT

1. The purpose of this study was to determine the effect of temperature on the rate of reaction between hydrogen peroxide and potassium permanganate in the presence of ceric sulfate as a catalyst. The reaction was carried out in a series of flasks at different temperatures, and the rate of reaction was measured by the volume of oxygen gas evolved over a fixed period of time.

2. The results of the experiment show that the rate of reaction increases with increasing temperature. This is in accordance with the Arrhenius equation, which states that the rate constant of a reaction increases exponentially with increasing temperature. The activation energy of the reaction was calculated from the slope of the Arrhenius plot, and was found to be 45.2 kJ/mol.

3. The effect of the concentration of the reactants on the rate of reaction was also studied. It was found that the rate of reaction is first order with respect to the concentration of hydrogen peroxide and first order with respect to the concentration of ceric sulfate. The reaction is therefore second order overall.