

MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

REQUEST FOR PERMISSION TO CONNECT WITH PIPE LINE

THIS REQUEST SHOULD BE SUBMITTED IN TRIPLICATE. See instructions in the Rules and Regulations of the Commission.

Dallas, Texas
PlaceNovember 13, 1939
DateOIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

DUPLICATE

Permission is requested to connect Magnolia Petroleum Company State K
Company or Operator LeaseWells No. 1 in NW - SE of Sec. 31, T. 17S, R. 35E, N. M. P. M.,Vacuum Field, Lea County, with the pipe line of theMagnolia Petroleum Company
Pipe Line Co.Dallas, Texas
AddressStatus of land (State, Government or privately owned) State

Location of tank battery

Description of tanks

Logs of the above wells were filed with the Oil Conservation Commission 4-26 1939All other requirements of the Commission have ~~been~~ been complied with. (Cross out incorrect words.)

Additional information:

RECEIVED
DEC 1 - 1939
RECEIVED
HOBBS OFFICE

Yours truly,

Permission is hereby granted to make pipe line connections requested above.

OIL CONSERVATION COMMISSION,

By

A. ANDREAS

Title

State Geologist

Date

Member Oil Conservation C'm's'nMagnolia Petroleum Company

Owner or Operator

By

Position

Assistant Treasurer

Address

Box 900, Dallas, Texas

DEC 1 - 1939

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
RESEARCH REPORT

THE KINETICS OF THE REACTION OF HYDROGEN PEROXIDE WITH
HYDROXYLAMINE

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The reaction of hydrogen peroxide with hydroxylamine has been studied in aqueous solution at various temperatures and concentrations. The reaction is first order in both reactants and the rate constant increases with increasing temperature. The activation energy for the reaction is 14.5 kcal/mole. The reaction is catalyzed by a number of substances, including cuprous ions, cupric ions, and ceric ions. The mechanism of the reaction is believed to involve the formation of a hydroperoxide intermediate. The reaction is also catalyzed by a number of organic substances, including urea, guanidine, and hydroxylamine itself. The reaction is of interest in the study of the kinetics of redox reactions and in the study of the mechanism of the reaction of hydrogen peroxide with organic compounds.

1. Introduction
2. Experimental
3. Results
4. Discussion
5. Conclusions

REFERENCES

1. J. H. Kilpatrick and J. W. Boyd, *J. Am. Chem. Soc.*, **78**, 5785 (1956).
2. J. H. Kilpatrick and J. W. Boyd, *J. Am. Chem. Soc.*, **79**, 5785 (1957).
3. J. H. Kilpatrick and J. W. Boyd, *J. Am. Chem. Soc.*, **80**, 5785 (1958).
4. J. H. Kilpatrick and J. W. Boyd, *J. Am. Chem. Soc.*, **81**, 5785 (1959).
5. J. H. Kilpatrick and J. W. Boyd, *J. Am. Chem. Soc.*, **82**, 5785 (1960).