

NEW MEXICO STATE LAND OFFICE  
 OFFICE OF THE STATE GEOLOGIST  
 SANTA FE, NEW MEXICO

MISCELLANEOUS NOTICES

Submit this notice in triplicate to the State Geologist or proper Oil and Gas Inspector at least five days 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 State Geologist or Oil and Gas Inspector of the plan submitted. The plan as approved should be followed and work should not begin until approval is obtained.

Indicate nature of notice by checking below:

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 ACIDIZE	<input checked="" type="checkbox"/>

Eastland, Texas. June 13, 1934

PLACE

DATE

Mr. J. D. Hunter, State Geologist,  
 Santa Fe, N. Mex.

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

REPOLLO OIL COMPANY Well No. 2 in SE/4 of the NW 1/4  
COMPANY OR OPERATOR LEASE  
 of Sec. 28, T. 19S, R. 88E, N. M. P. M., Hobbs  
 Oil Field, Lea County.

DETAILS OF PROPOSED PLAN OF WORK

Re-treat with 1000 gallons acid.

DUPLICATE

Approved JUN 19 1934, 19  
 except as follows:

*[Signature]*  
 NAME TITLE  
 Address

REPOLLO OIL COMPANY,  
COMPANY OR OPERATOR  
 By Jack H. Rankin  
 Position Production Engineer.  
 Send communications regarding well to  
 Name Jack H. Rankin,  
 Address Box 218,  
 Eastland, Texas.

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY  
RESEARCH REPORT

THE CHEMISTRY OF THE CARBON DIOXIDE SYSTEM

The present study is a continuation of the work of the author and his co-workers on the chemistry of the carbon dioxide system. It is concerned with the reaction of carbon dioxide with various organic compounds under conditions of high pressure and temperature. The results of these experiments are reported in this paper.

The reaction of carbon dioxide with organic compounds is a subject of considerable interest because of its importance in the natural world. It is also of interest to the chemist because of the many different products which can be formed. The present study is a contribution to the knowledge of this reaction.

The following table shows the results of the experiments on the reaction of carbon dioxide with various organic compounds.

Organic Compound	Reaction Conditions	Products
Carbon Dioxide	High Pressure, High Temperature	Carbon Monoxide, Methane, Ethane, Propane, Butane, Pentane, Hexane, Heptane, Octane, Nonane, Decane, Undecane, Dodecane, Tridecane, Tetradecane, Pentadecane, Hexadecane, Heptadecane, Octadecane, Nonadecane, Eicosane, Heneicosane, Docosane, Tricosane, Tetracosane, Pentacosane, Hexacosane, Heptacosane, Octacosane, Nonacosane,triacontane, Heteroatom compounds
Carbon Dioxide	High Pressure, High Temperature	Carbon Monoxide, Methane, Ethane, Propane, Butane, Pentane, Hexane, Heptane, Octane, Nonane, Decane, Undecane, Dodecane, Tridecane, Tetradecane, Pentadecane, Hexadecane, Heptadecane, Octadecane, Nonadecane, Eicosane, Heneicosane, Docosane, Tricosane, Tetracosane, Pentacosane, Hexacosane, Heptacosane, Octacosane, Nonacosane,triacontane, Heteroatom compounds
Carbon Dioxide	High Pressure, High Temperature	Carbon Monoxide, Methane, Ethane, Propane, Butane, Pentane, Hexane, Heptane, Octane, Nonane, Decane, Undecane, Dodecane, Tridecane, Tetradecane, Pentadecane, Hexadecane, Heptadecane, Octadecane, Nonadecane, Eicosane, Heneicosane, Docosane, Tricosane, Tetracosane, Pentacosane, Hexacosane, Heptacosane, Octacosane, Nonacosane,triacontane, Heteroatom compounds

RESULTS OF REPRODUCED EXPERIMENT

The results of the experiments on the reaction of carbon dioxide with various organic compounds are shown in the following table. The table shows the reaction conditions and the products formed. The results are in good agreement with the theoretical predictions.

The present study is a contribution to the knowledge of the chemistry of the carbon dioxide system. It is hoped that the results of these experiments will be of interest to other workers in this field.