

OIL CONSERVATION COMMISSION  
HOBBS, NEW MEXICO

February 2, 1961

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Y  
  
Lone Star Producing Company  
Post Office Box 4815  
Midland, Texas

Re: Undesignated Wells  
Placed in Pool

Gentlemen:

In accordance with the provisions of Commission Order No. R-1857, the following wells which are currently listed in the Undesignated Section of the Proration Schedule will appear in the SOUTH PRAIRIE-PENNSYLVANIAN POOL in the March Schedule:

✓ Federal N. M. No. 1	Unit I	Section 20-T8S-R36E
✓ Federal N. M. "B" No. 1	Unit M	Section 21-T8S-R36E

Please file Form C-110 with this office for each of these wells showing the change in pool designation.

Yours very truly,

OIL CONSERVATION COMMISSION

Joe D. Ramey  
Proration Manager

JDR:mg

THE UNIVERSITY OF MICHIGAN LIBRARY  
ANN ARBOR, MICHIGAN

1. The first part of the paper is devoted to a discussion of the various methods of determining the rate of reaction of a substance with oxygen. The methods are classified into two groups: (a) direct methods, and (b) indirect methods. The direct methods are those in which the rate of reaction is determined by measuring the amount of oxygen consumed or the amount of product formed. The indirect methods are those in which the rate of reaction is determined by measuring the change in some property of the system, such as the change in color or the change in viscosity.

2. The second part of the paper is devoted to a discussion of the various factors which influence the rate of reaction of a substance with oxygen. These factors are: (a) the nature of the substance, (b) the concentration of the substance, (c) the temperature, and (d) the presence of catalysts.

3. The third part of the paper is devoted to a discussion of the various theories which have been proposed to explain the rate of reaction of a substance with oxygen. These theories are: (a) the collision theory, (b) the transition state theory, and (c) the free radical theory.

4. The fourth part of the paper is devoted to a discussion of the various applications of the study of the rate of reaction of a substance with oxygen. These applications are: (a) the study of the kinetics of chemical reactions, (b) the study of the mechanism of chemical reactions, and (c) the study of the factors which influence the rate of chemical reactions.

5. The fifth part of the paper is devoted to a discussion of the various methods of determining the rate of reaction of a substance with oxygen. These methods are: (a) direct methods, and (b) indirect methods.