

OIL CONSERVATION DIVISION

Drawer DD Artesia, NM

DISTRICT OFFICE #2

May thru Aug. 1981

2147 0

NO. _____

SUPPLEMENT TO THE OIL PRORATION SCHEDULE

DATE July 17, 1981

PURPOSE ALLOWABLE ASSIGNMENT OLD WELL

Effective July 17, 1981, an allowable of 3 barrels of oil per day is hereby assigned to the Owen Haynes Harbold #1-N-26-17-27 in the Empire Y-SR Pool.

July Total - 42 bbls.
Aug. Total - 93 bbls.

MAG:ar

Owen Haynes

HCO

OIL CONSERVATION DIVISION

DISTRICT SUPERVISOR

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
JANUARY 1954

RECEIVED
JAN 15 1954
PURPOSE OF THE STUDY
The purpose of this study is 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.

EXPERIMENTAL
The reaction was carried out in a series of test tubes. A known volume of a standard solution of potassium permanganate was added to a known volume of a standard solution of hydrogen peroxide. A known volume of a standard solution of ceric sulfate was added as a catalyst. The reaction was allowed to proceed for a fixed period of time, and the color of the solution was observed. The color of the solution was compared with a standard color chart to determine the concentration of the unreacted potassium permanganate. The rate of reaction was calculated from the concentration of the unreacted potassium permanganate and the initial concentration of the potassium permanganate.

RESULTS
The results of the experiment are shown in the following table. The rate of reaction increases with increasing temperature.

Temperature (°C)	Rate of Reaction (min ⁻¹)
10	0.01
20	0.02
30	0.04
40	0.08
50	0.16