

At Total Depth 3091' (Continued):

RESULTS: Swabbed 10.3 BO in 8 hours (Rate of 31 BOPD) from zone 2978'-3091' only.

Retreated with 3000 gallons of 20% HCl from 2978'-3091'.

RESULTS: Bailed 42 GOPH (Rate of 24 BOPD) from zone 2978' - 3091' only.

At Total Depth 3240':

Bailed 53 GOPH (Rate of 30 BOPD) from all zones.

Washed with 336 gallons of 20% HCl.

Isolated zone from 3094'-3240' with formation packer. Zone from 3094'-3240' swabbed 3.32 BO in 8 hours. (Rate of 9.96 BOPD) natural.

Treated with 1000 gallons of 15% HCl from 3094'-3240'.

RESULTS: Swabbed 45.5 BO first 10 hours then swabbed 40 BO next 16 hours (Rate of 60 BOPD) from zone 3094'-3240' only.

Retreated with 3500 gallons 15% HCl from 3094'-3240'.

RESULTS: Swabbed and flowed 62 BO in 9 hours making 15.35 BO in the last 3 hours of this test (Rate of 123 BOPD) from zone 3094'-3240' only.

INITIAL PRODUCTION: After a 2 hour shut-in well flowed 88 BO in 24 hours thru 3/4" tubing choke with GOR 1894/1.

COMPLETION DATE: February 11, 1950.

REMARKS: This acidizing program is essentially the same as that outlined by Mr. N. W. Krouskop to Mr. Jack Frost in telephone conversation of January 20, 1950.

C O P Y

1. The first part of the paper is devoted to a discussion of the various methods which have been proposed for the determination of the rate of reaction of a substance with oxygen.

2. The second part of the paper is devoted to a discussion of the various methods which have been proposed for the determination of the rate of reaction of a substance with oxygen.

3. The third part of the paper is devoted to a discussion of the various methods which have been proposed for the determination of the rate of reaction of a substance with oxygen.

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5. The fifth part of the paper is devoted to a discussion of the various methods which have been proposed for the determination of the rate of reaction of a substance with oxygen.

6. The sixth part of the paper is devoted to a discussion of the various methods which have been proposed for the determination of the rate of reaction of a substance with oxygen.

7. The seventh part of the paper is devoted to a discussion of the various methods which have been proposed for the determination of the rate of reaction of a substance with oxygen.