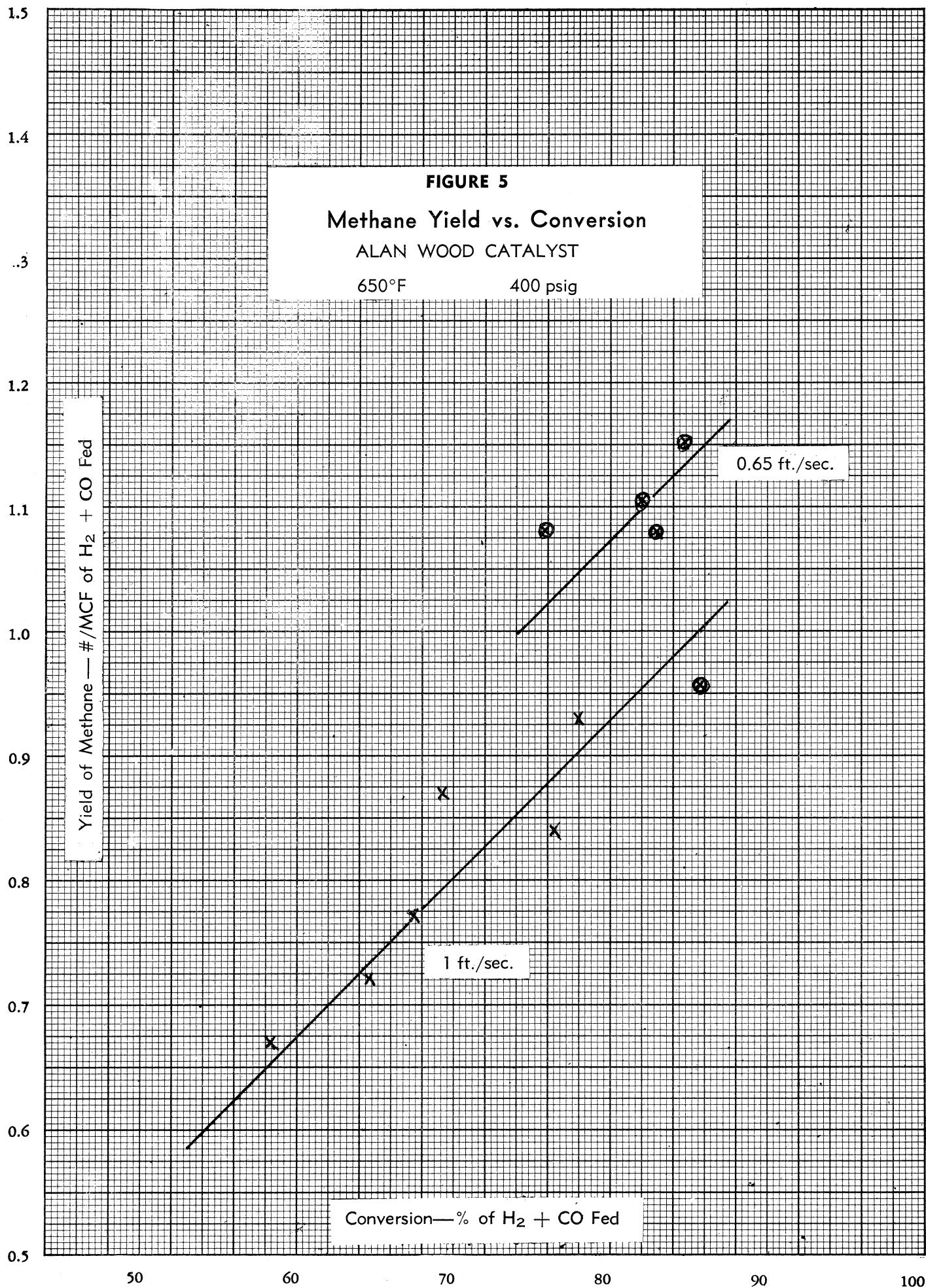
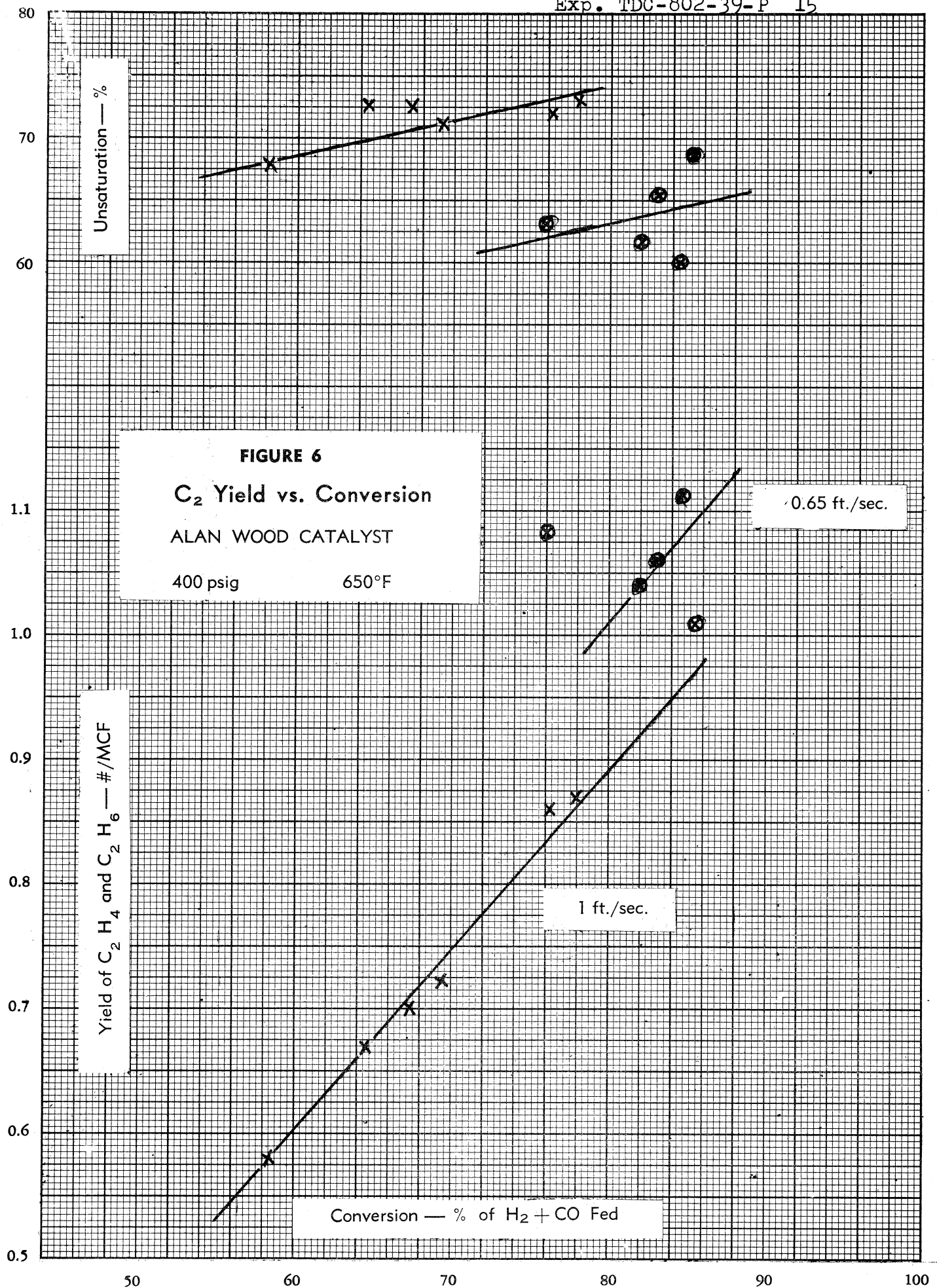


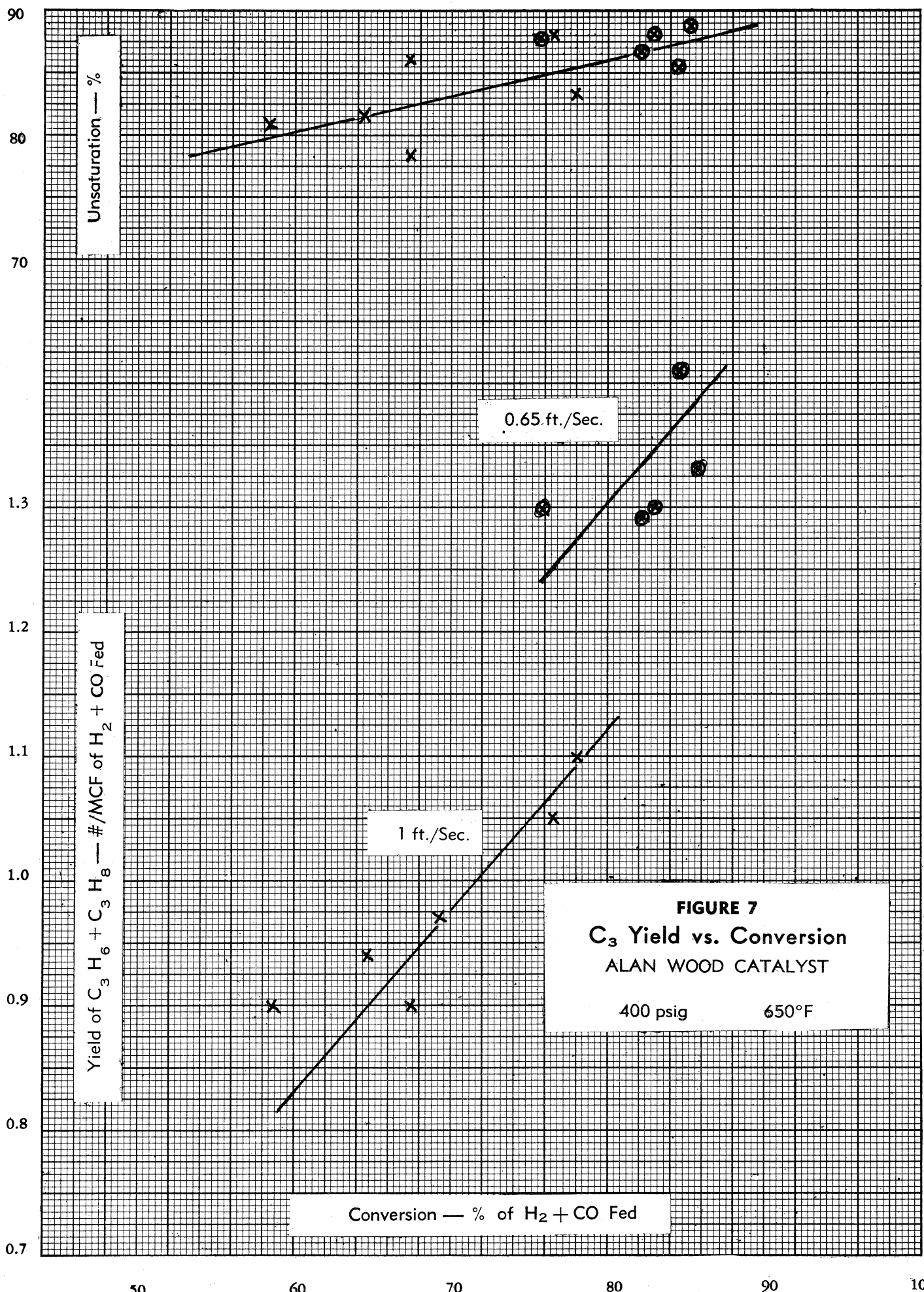
D. Product Distribution

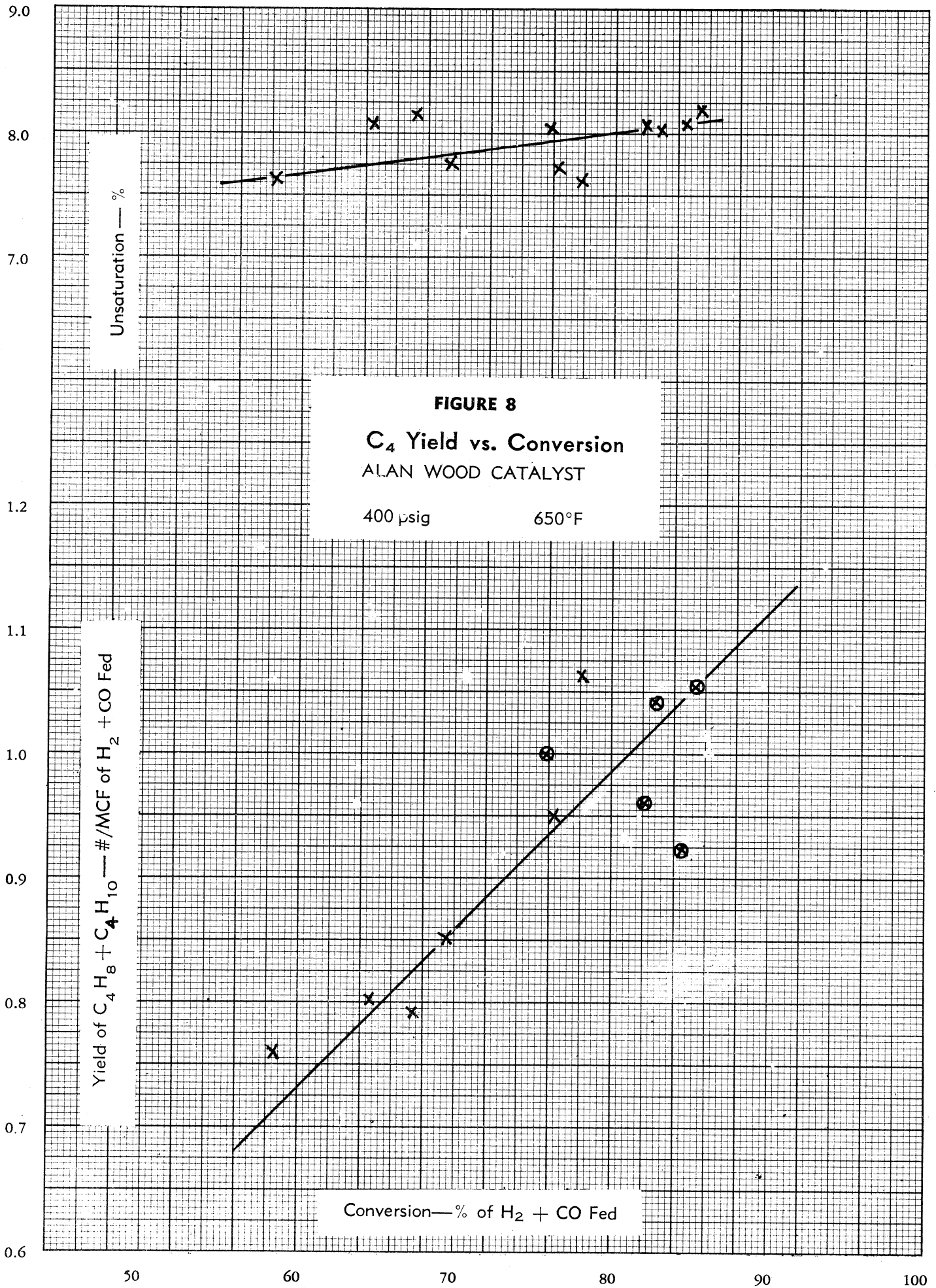
The following plots show yields of the various hydrocarbon products as functions of conversion level. Data from Runs 46, 48, 49, and 51 are shown. The lower selectivity of Run 51 is reflected in higher yields of C₁, C₂, and C₃ fractions and a lower yield of C₅+. The unsaturation of the C₂ fraction is also lower.

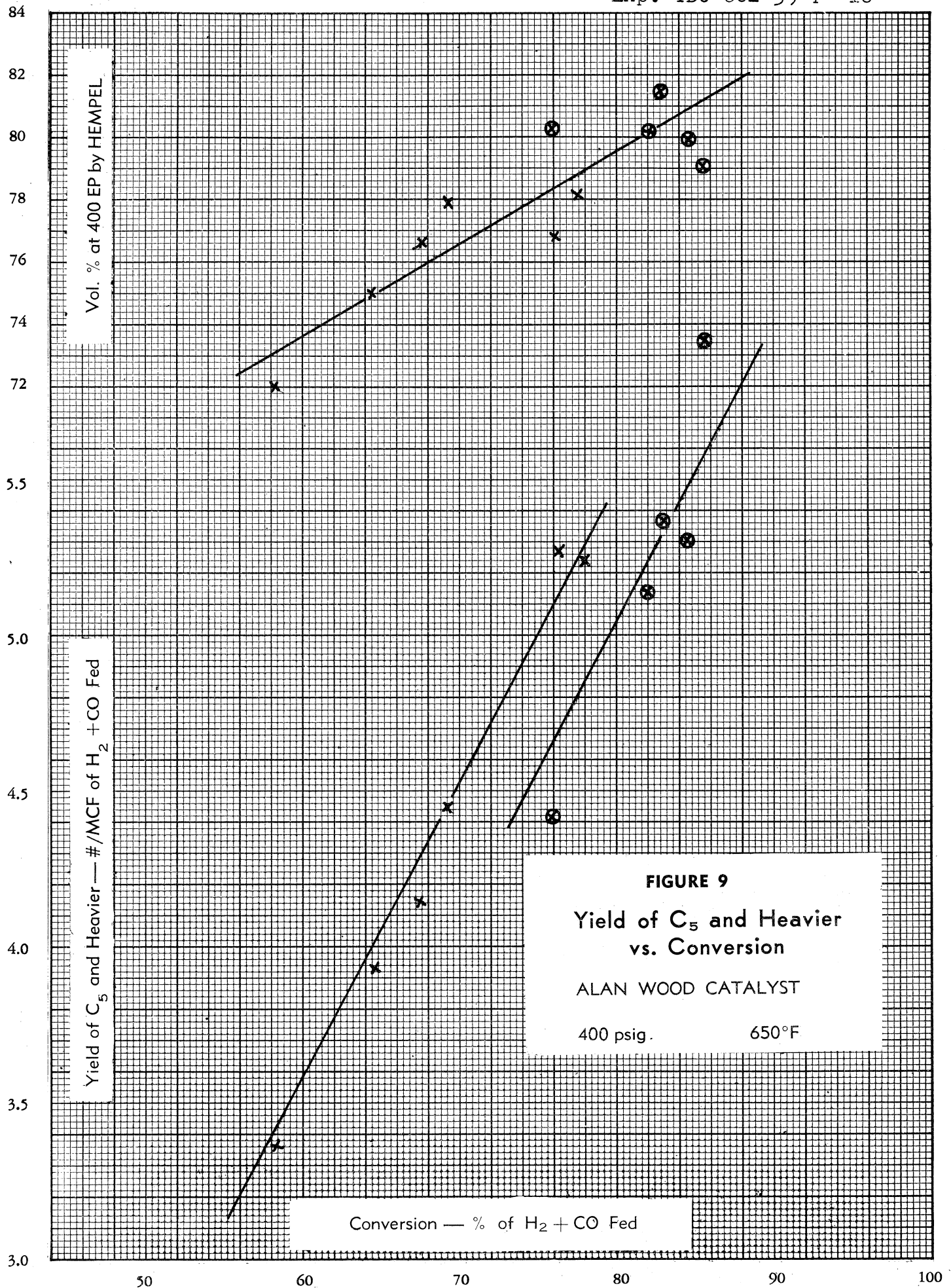
In contrast to the hydrocarbon yields which are independent of catalyst age, the yield of chemicals is strongly influenced by this factor during the first 300 hours of operation.











11000

10000

9000

8000

7000

6000

5000

4000

3000

FIGURE 10

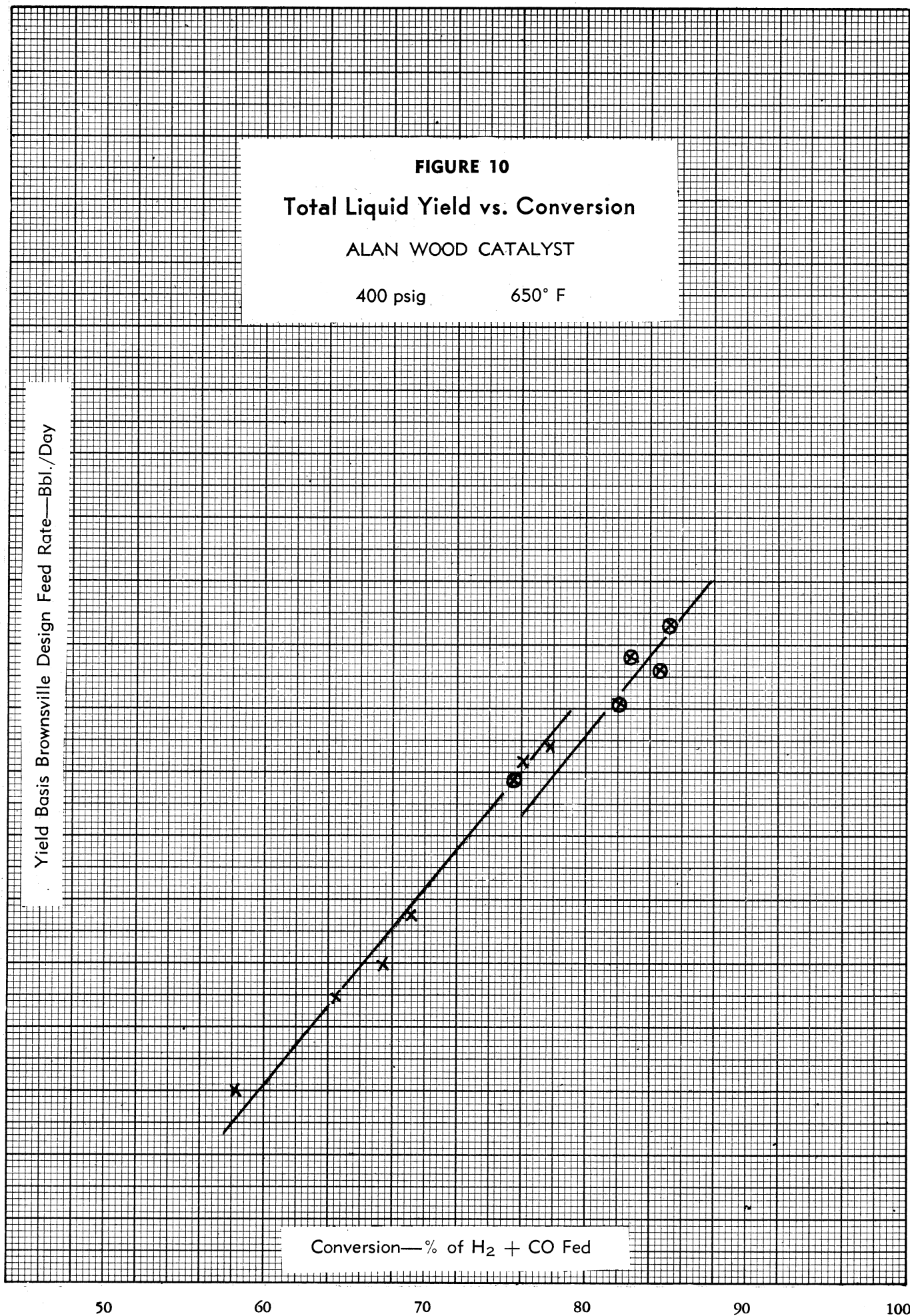
Total Liquid Yield vs. Conversion

ALAN WOOD CATALYST

400 psig

650° F

Yield Basis Brownsville Design Feed Rate—Bbl./Day

Conversion—% of $H_2 + CO$ Fed

50

60

70

80

90

100

