

D. YIELDS BASIS CARBON MONOXIDE FED

The yield of carbon dioxide on the basis of carbon monoxide fed is plotted against contraction in the following Figure VII. The plot for the runs reported in Partial Report 5 is also shown in the same Figure. The yield of carbon dioxide increased with contraction up to about 57% contraction; then decreased steadily. This initial increase tends to confirm the theory that equilibrium was not approached except at the higher contraction levels.

The yields of methane, C₃ plus, C₄ plus, and total hydrocarbons have been presented in Figures VIII, IX, X, and XI. The yields of all components increased with conversion levels except in the case of methane. The methane data were so erratic that no plot was justified.