

III. CONCLUSIONS

1. There was no indication that the stirred-bed Stratco Reactor possessed any advantages over a conventional fluid type such as the Montebello Vertical Tubular Reactor.

2. The net yield of methane from the reactor remained practically constant over a wide range of methane content of the fresh feed, when other variables were held constant.

3. When other conditions remained the same, a drop in feed rate accompanied by an increase in recycle ratio produced higher yields of C_3+ and better conversion of $H_2 + CO$.