

FIGURE
CATALYST

27
UCC-101

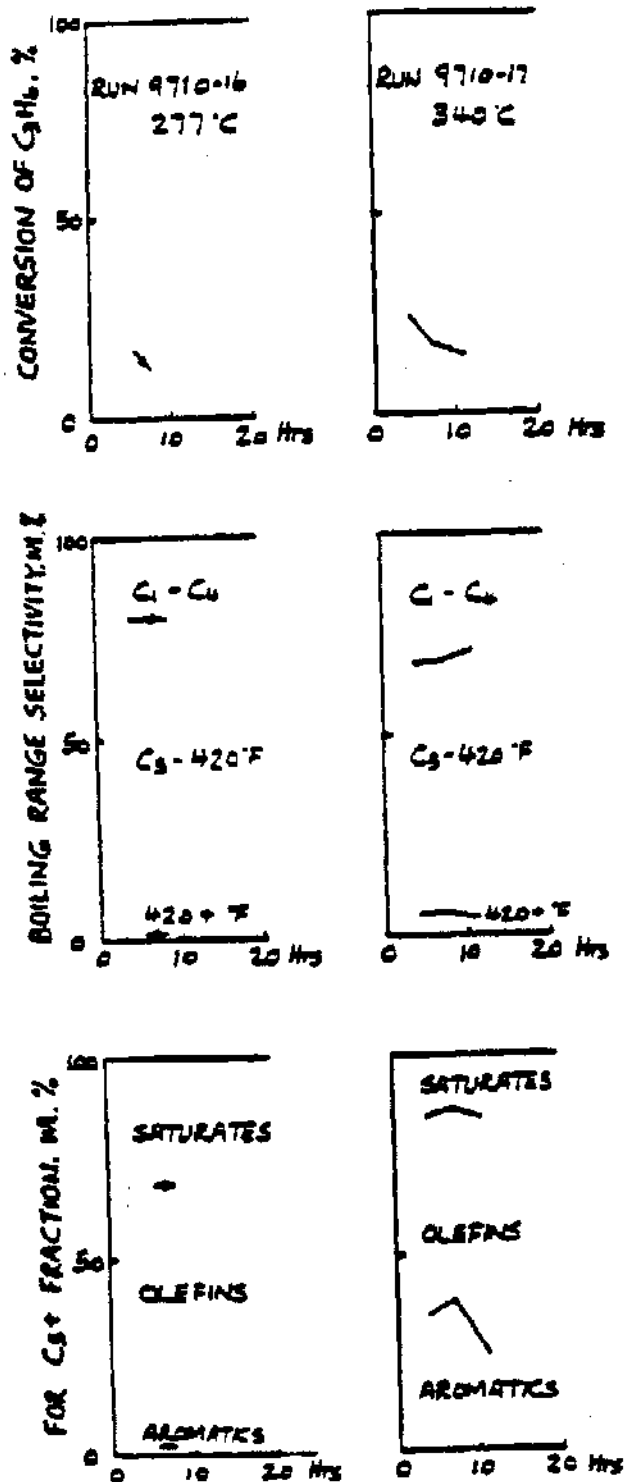


FIGURE 28
UCC-101

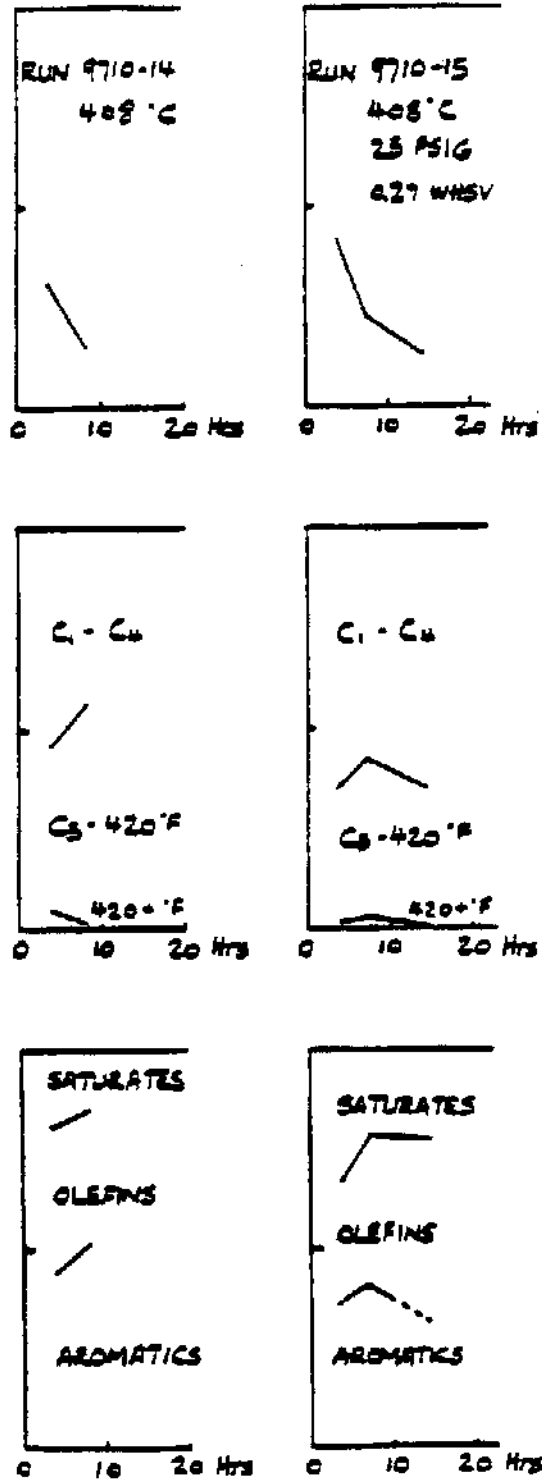


FIG. 29

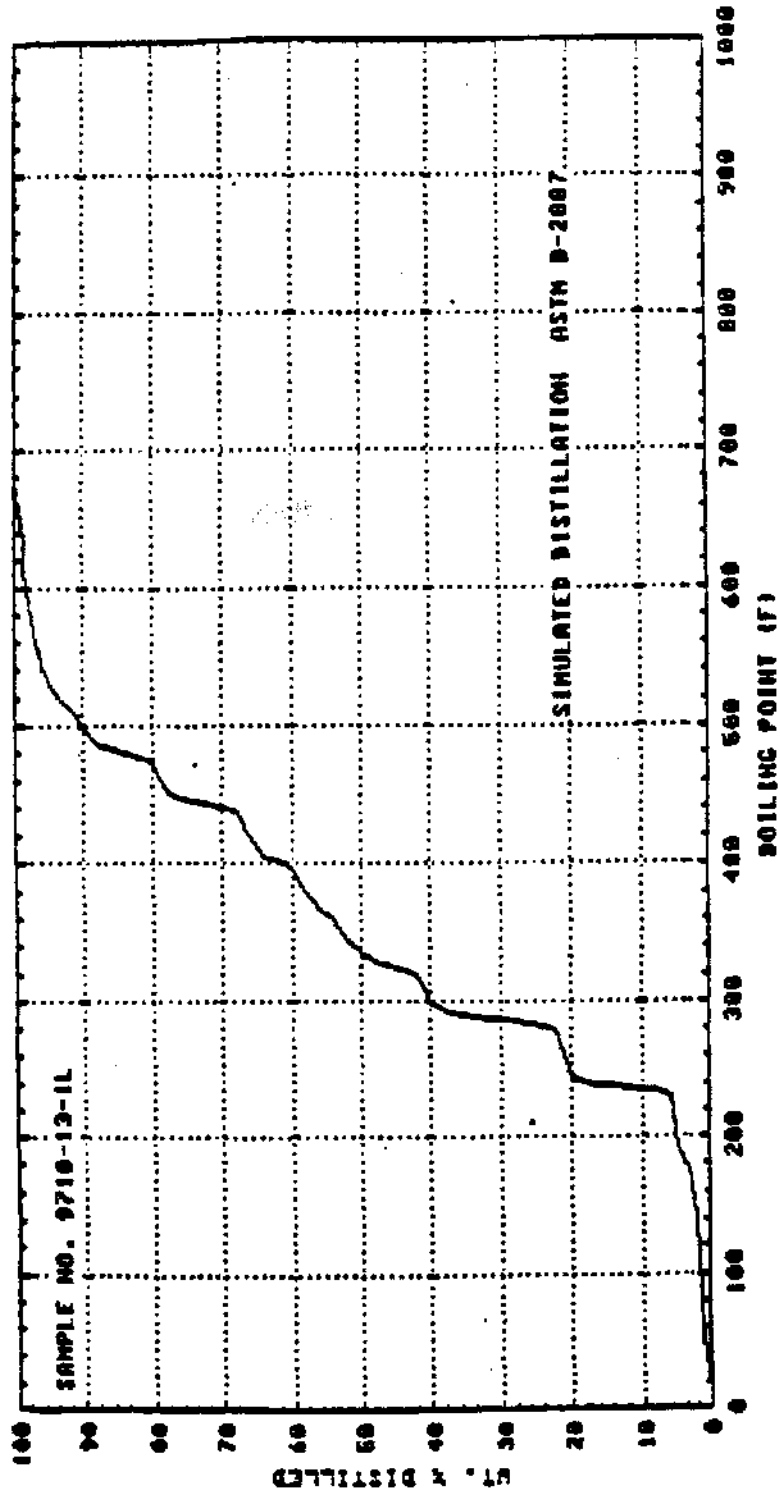


FIG. 30

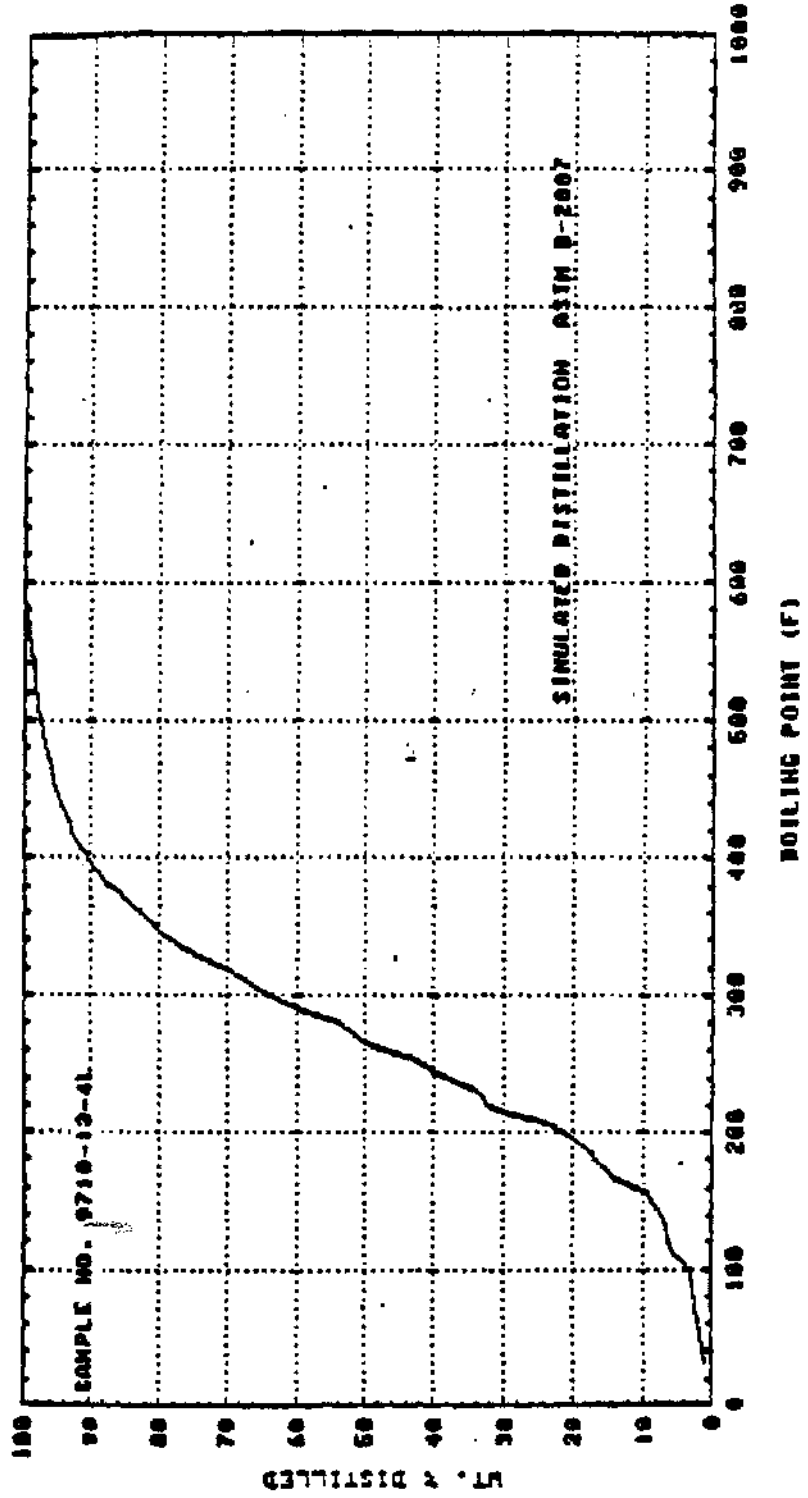


FIG. 31

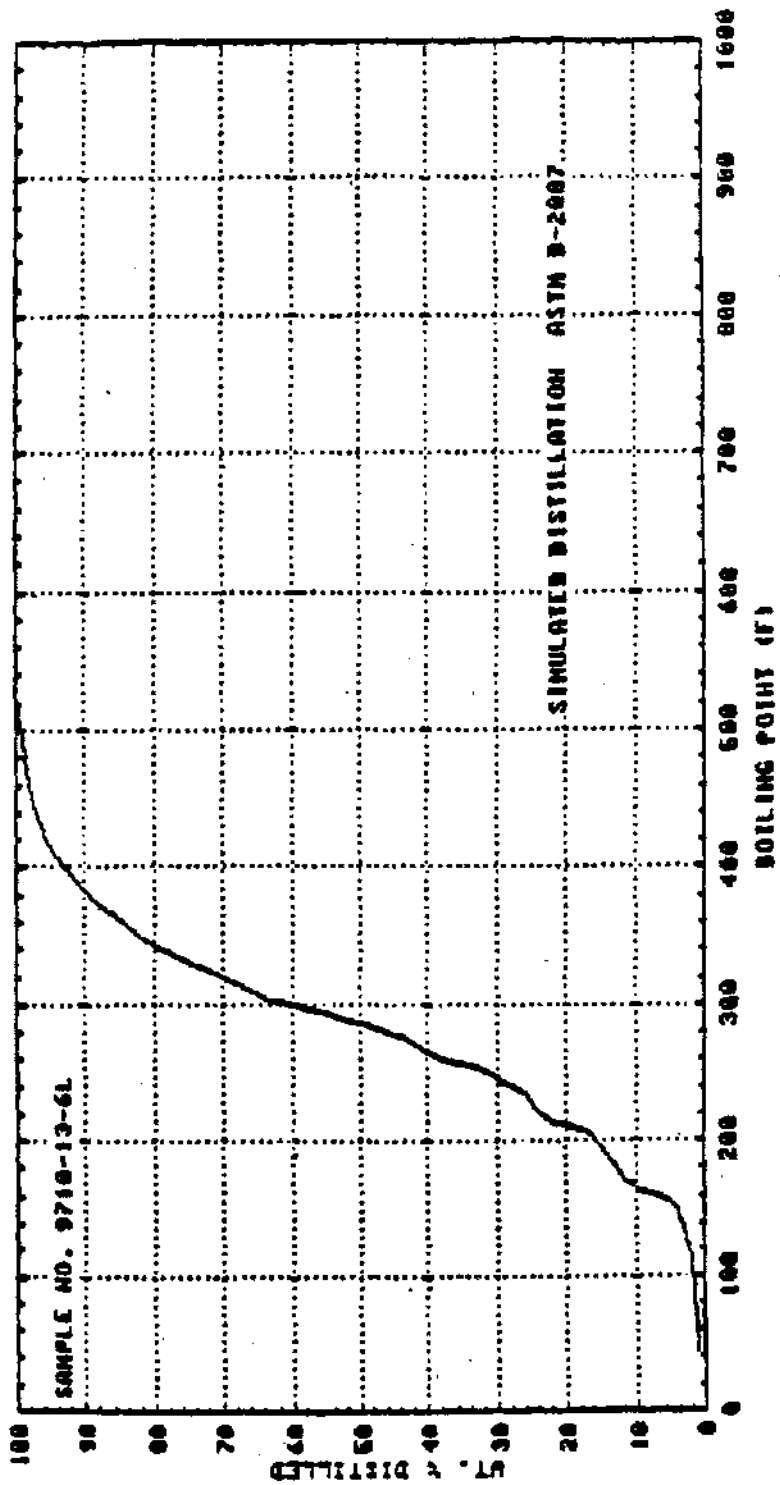


FIG. 32

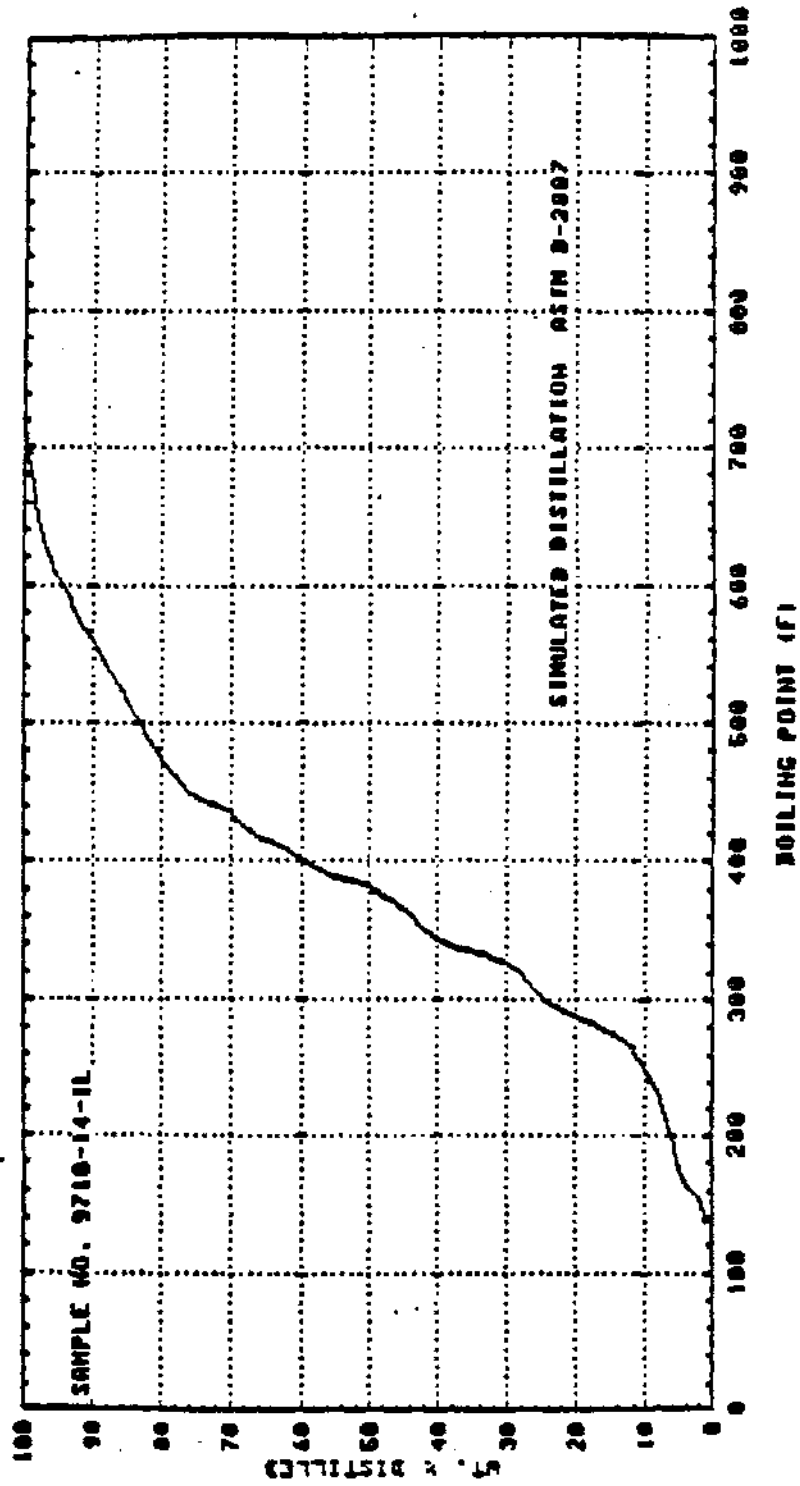
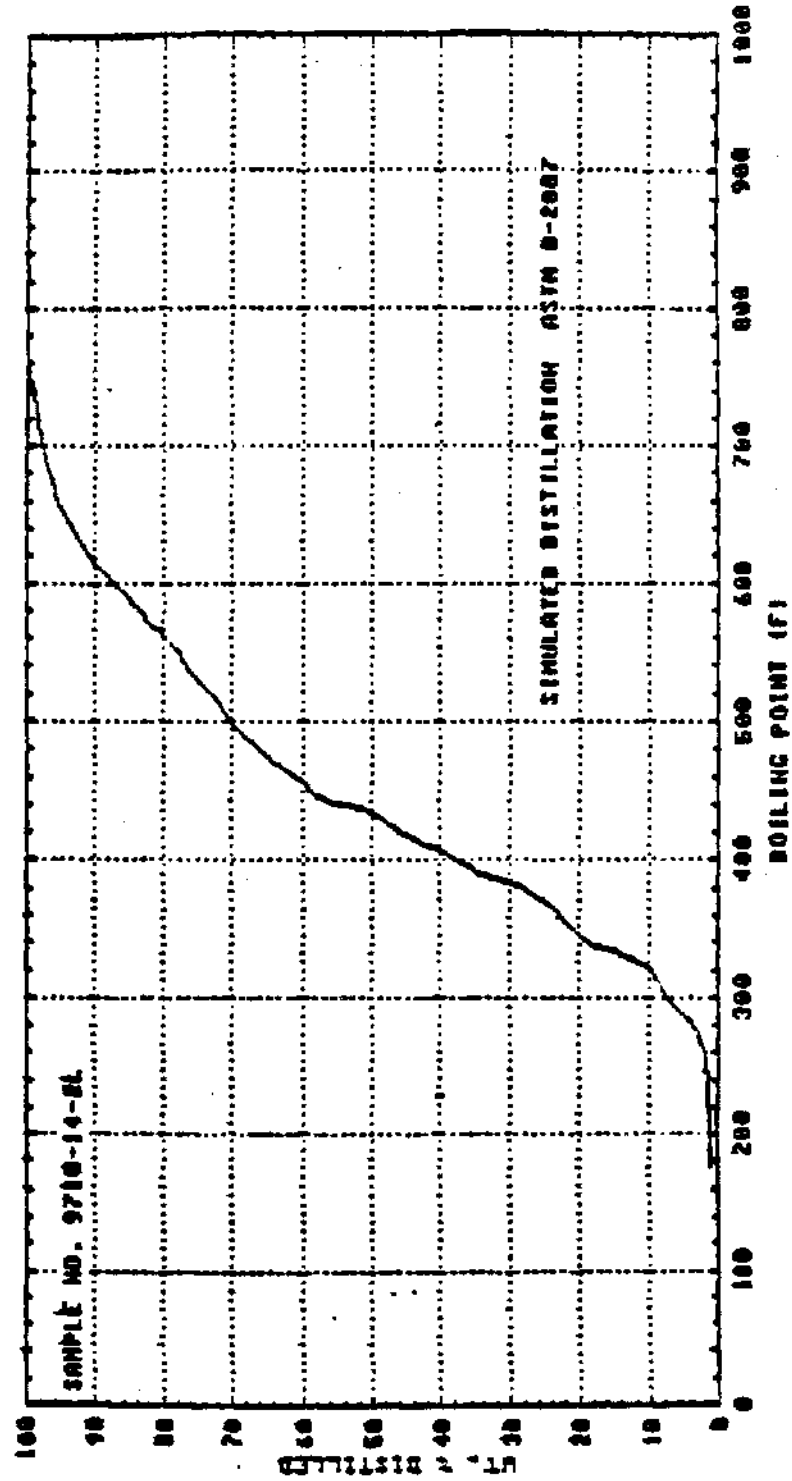


FIG. 33



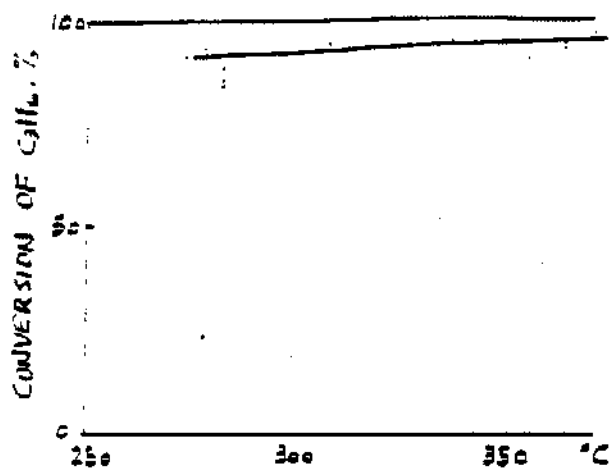


FIGURE 34

EFFECTS OF TEMPERATURE
ON PROPYLENE OPERATION
WITH LZ-105-6 AT 150 PSIG

RUN 9972-1, LZ-105-6
H₂:C₃H₆ @ 1:1
C₃H₆ WHSV = 1.1
150 PSIG

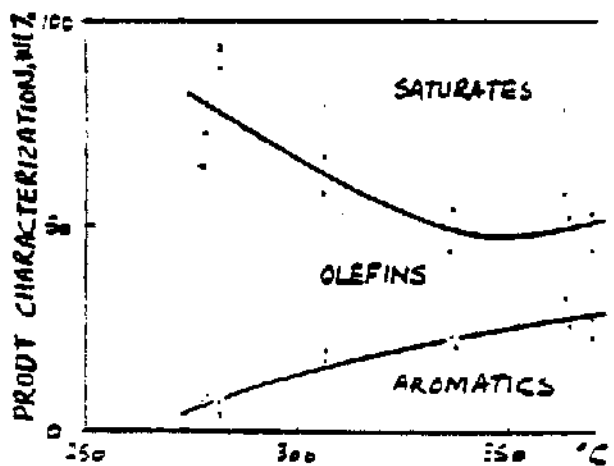
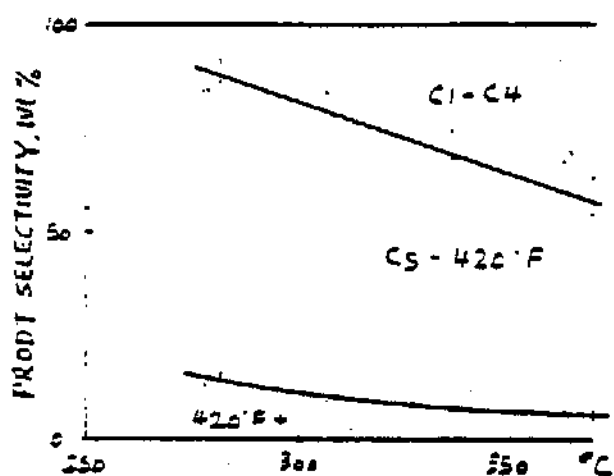


Fig. 35 EFFECT OF PRESSURE ON PROPYLENE OPERATION WITH 1.1-105%
 AT 280 °C RUN 6672-1 AT 370 °C

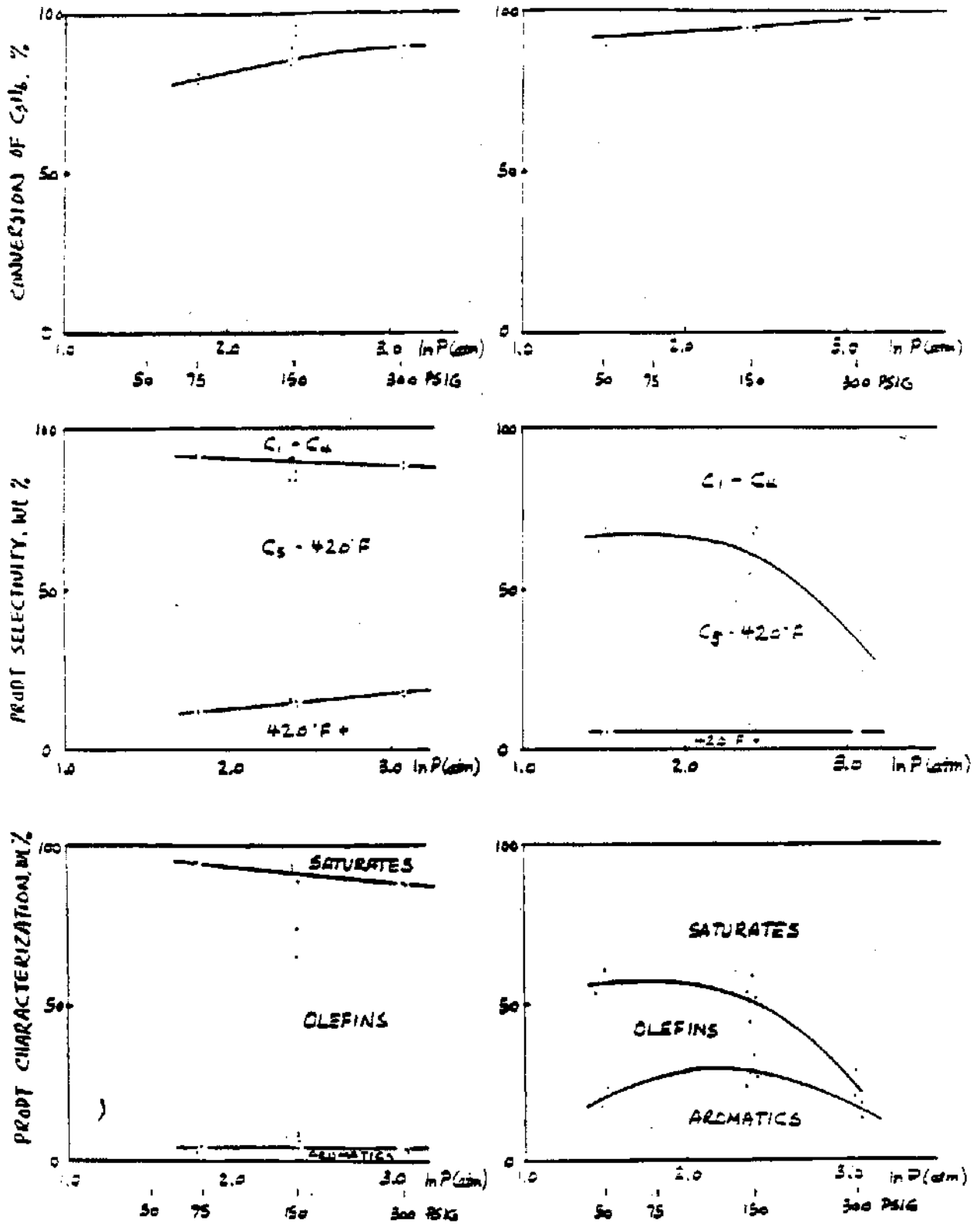
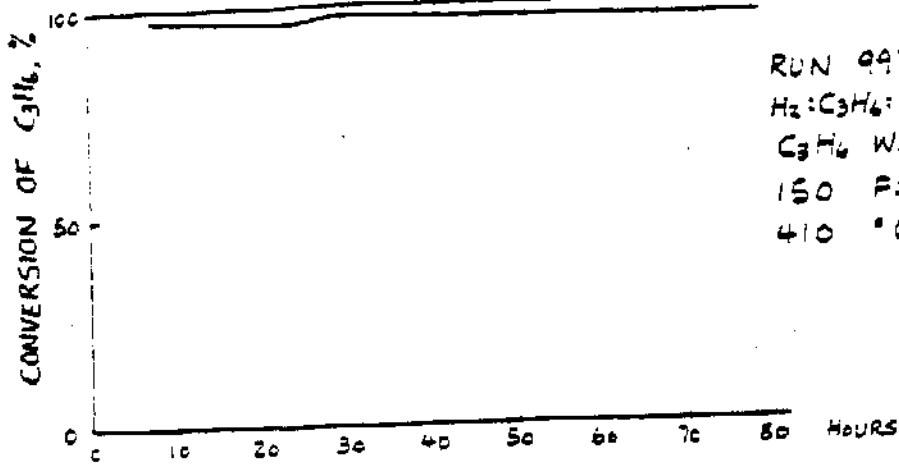
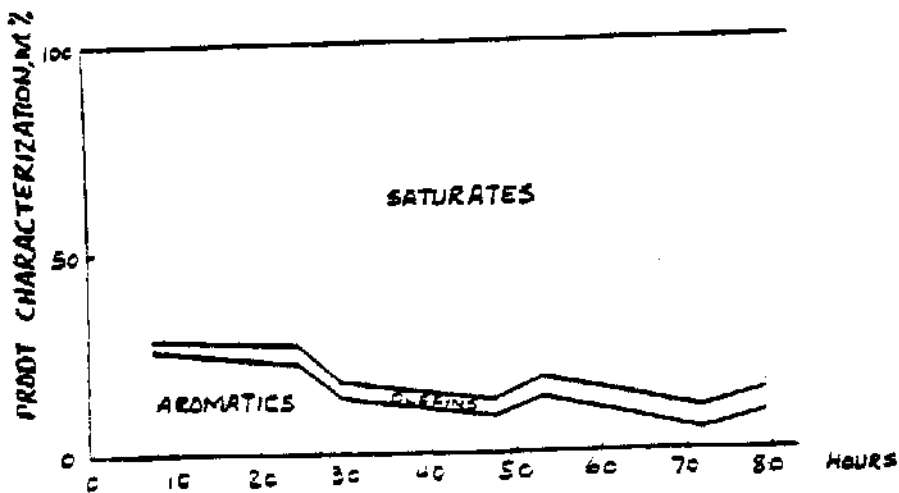
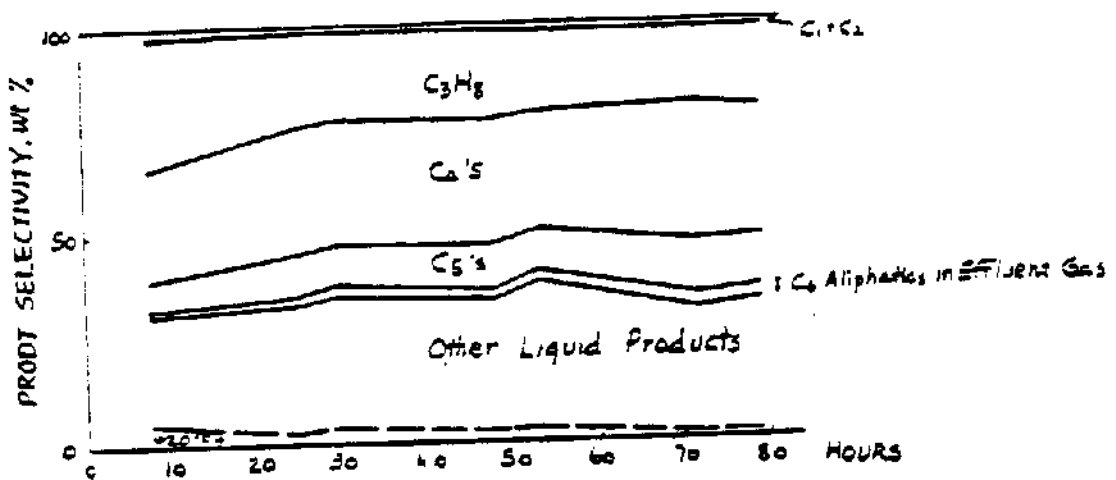


FIGURE 36



RUN 9972-2, LZ-105-6
 $H_2:C_3H_6:H_2O @ 1:1:2$
 C_3H_6 WHSV = 0.4
150 PSIG
410 °C



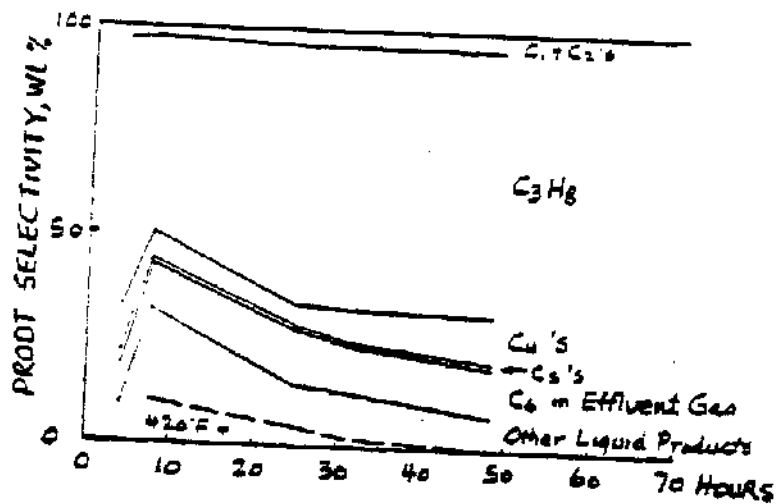
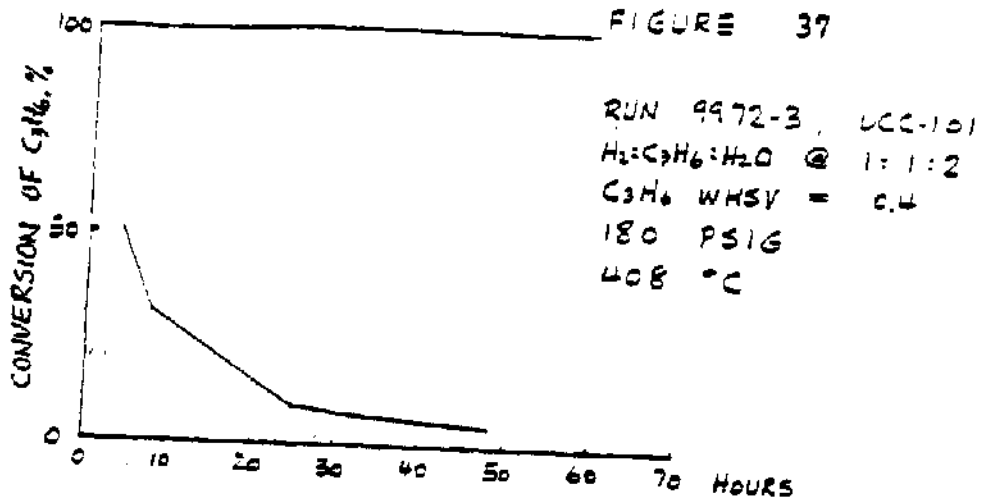
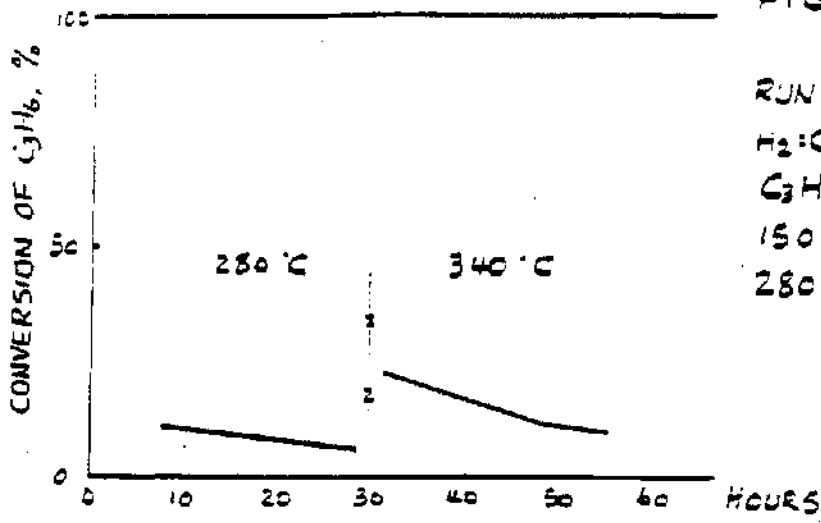


FIGURE 38



RUN 9972-4, UCC-101
 $H_2:C_3H_6:H_2O @ 1:1:3$
 C_3H_6 WHSV = 0.7
 150 PSIG
 280 & 340 °C

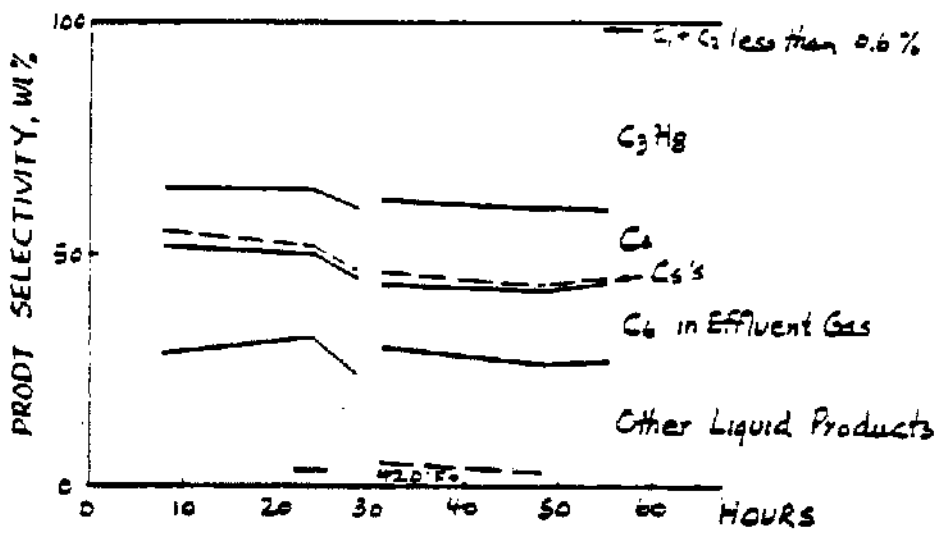


FIGURE 39

RUN 9972-3, -4

UCC-101

$H_2:C_3H_6:H_2O @ 1:1:2$

$1:1:3$

150-180 PSIG

INITIAL CONVERSIONS

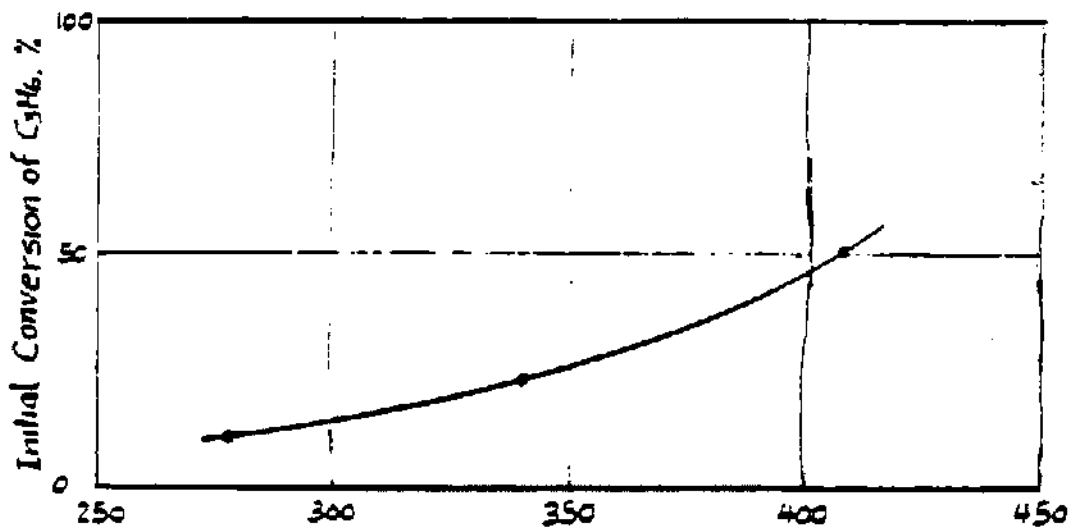


FIGURE 40

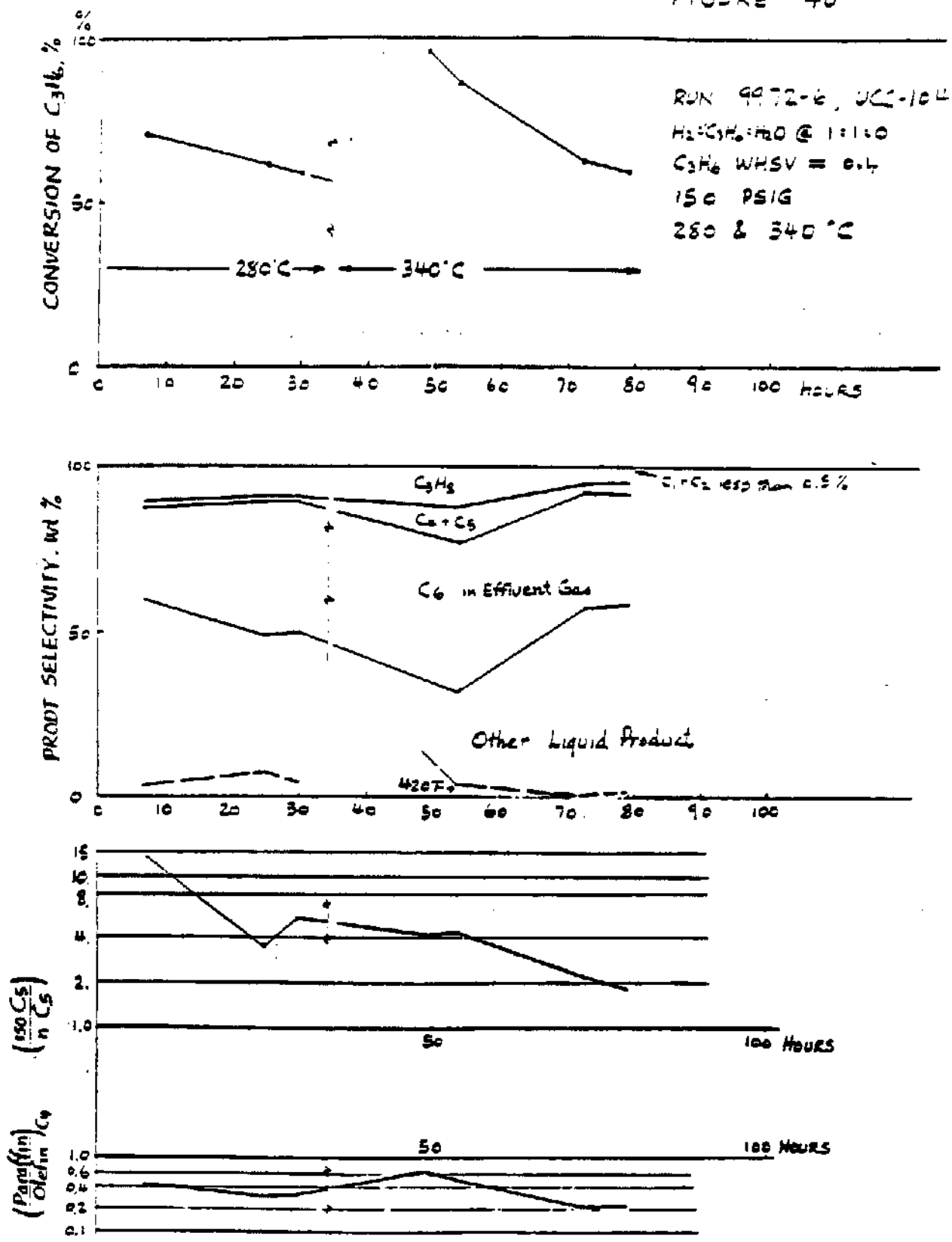


FIGURE 41

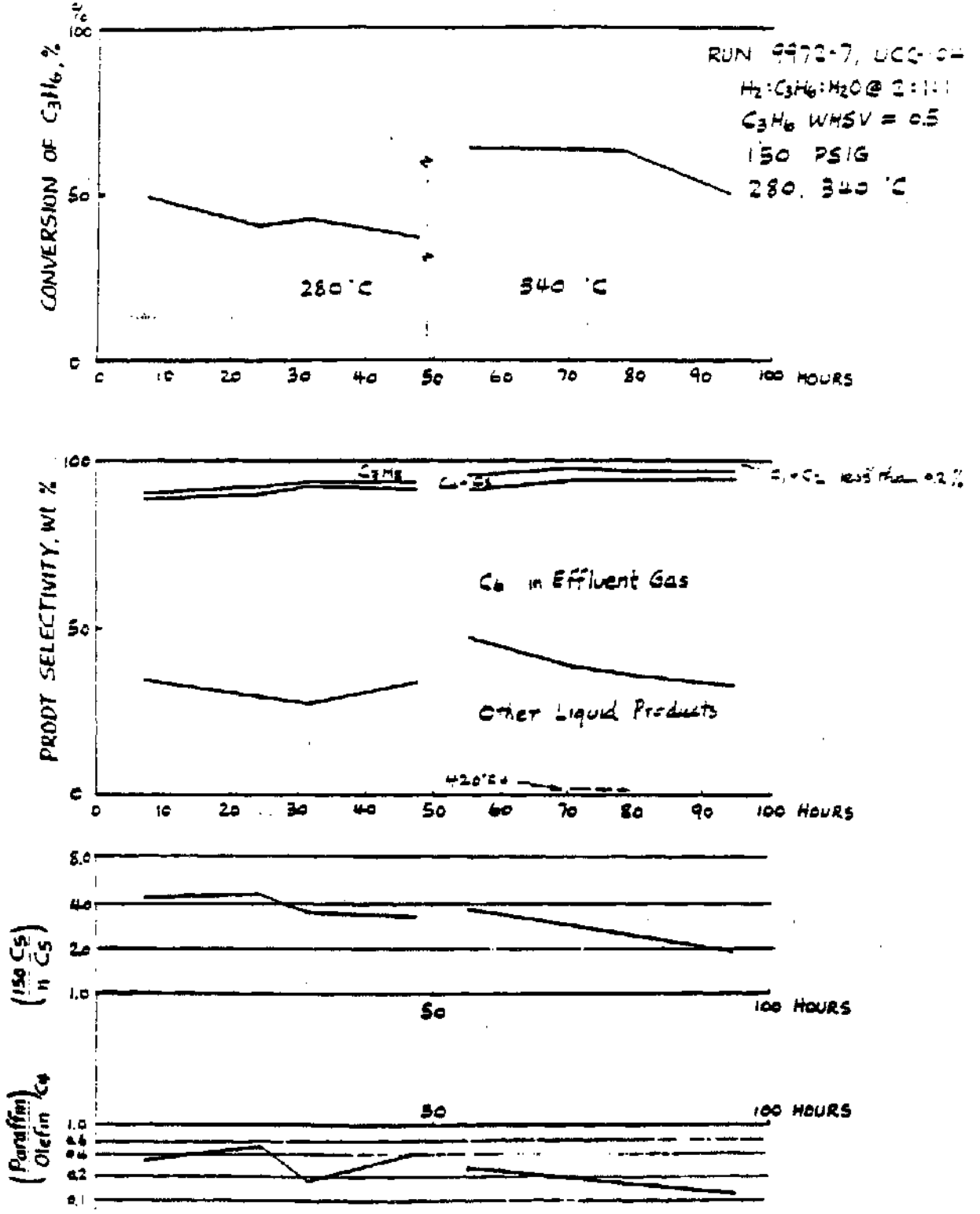
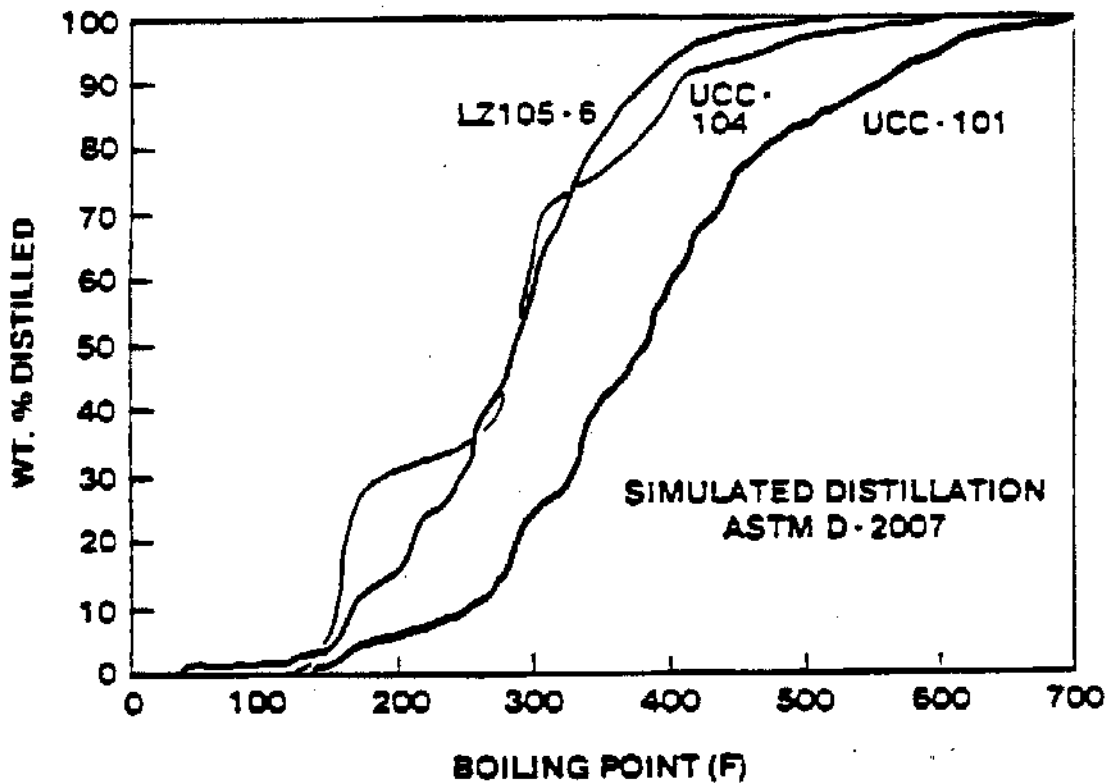


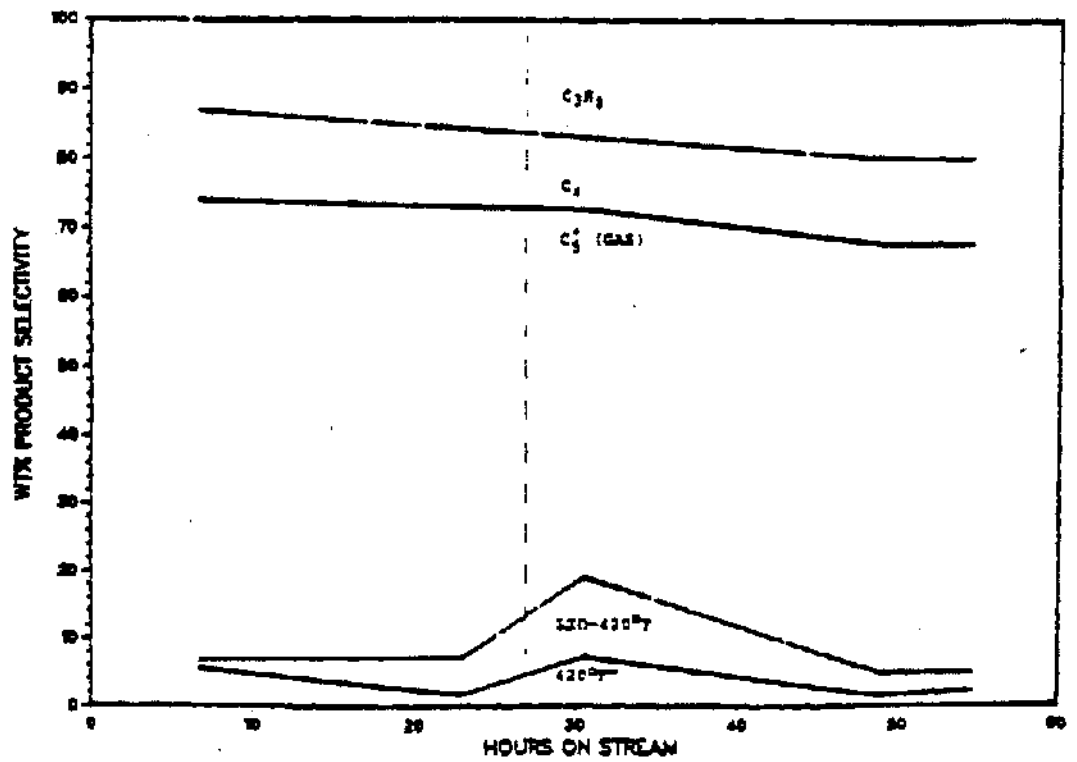
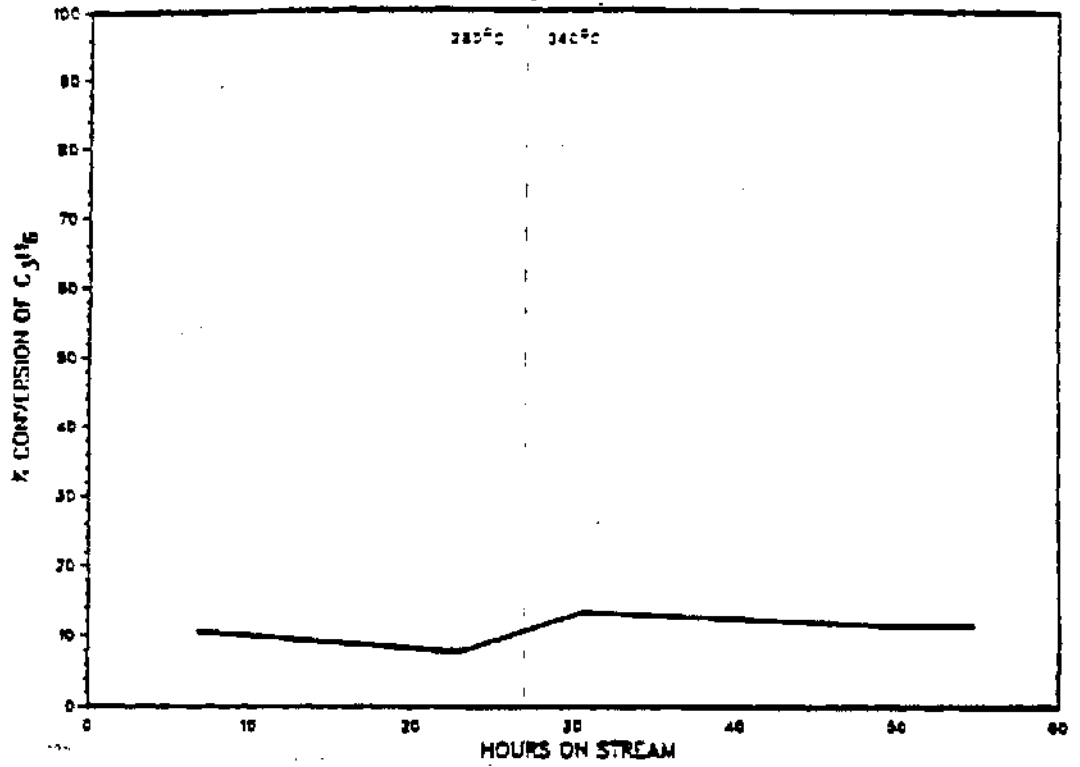
FIGURE 42

**BOILING POINT DISTRIBUTION OF
THE LIQUID PRODUCT OF PROPYLENE
OLIGOMERIZATION USING LZ105-6,
UCC 101, AND UCC 104 AS CATALYSTS.**



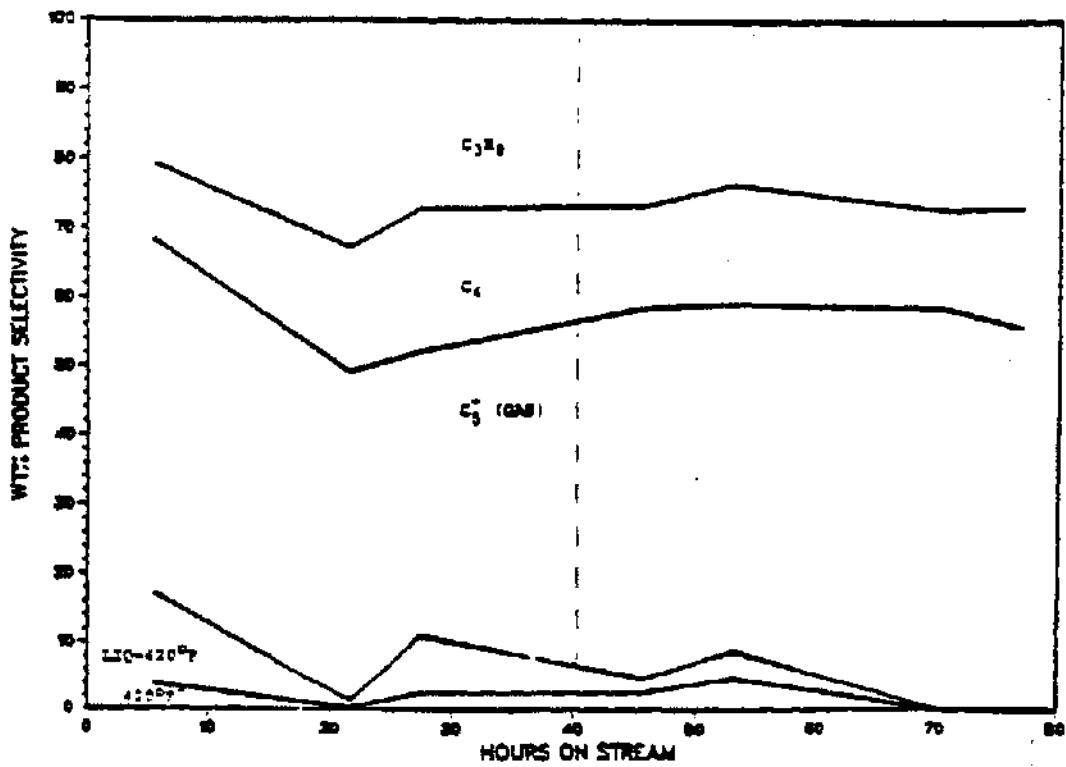
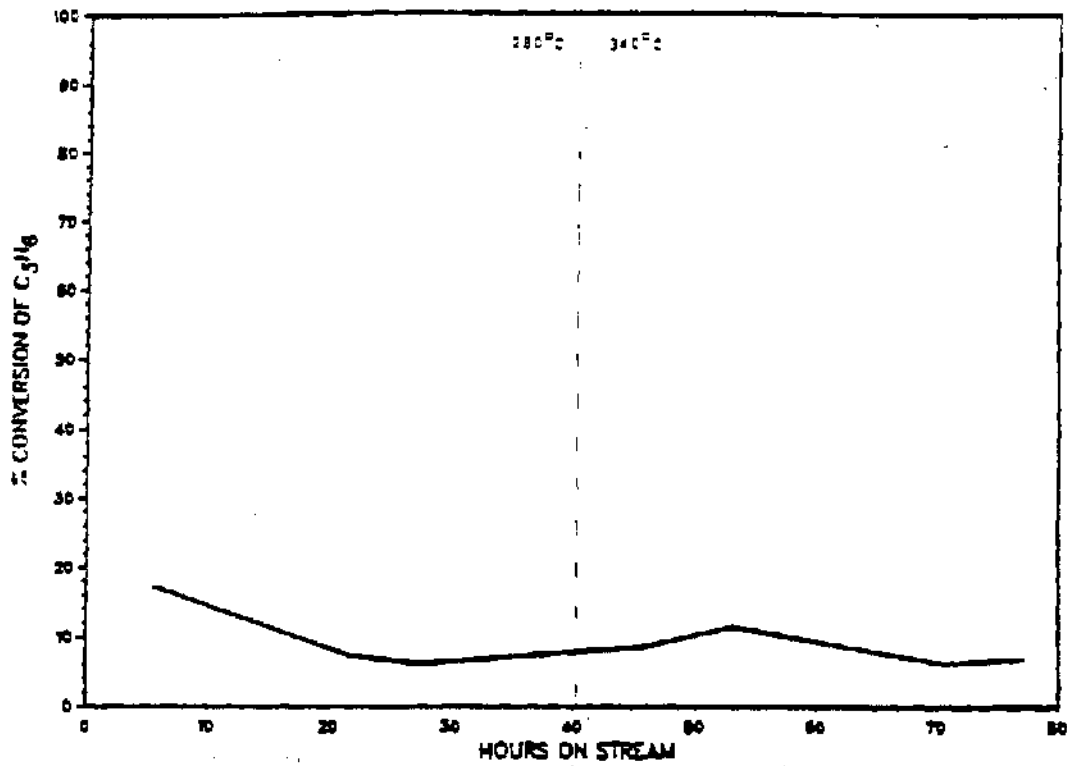
RUN NO. 9872-08

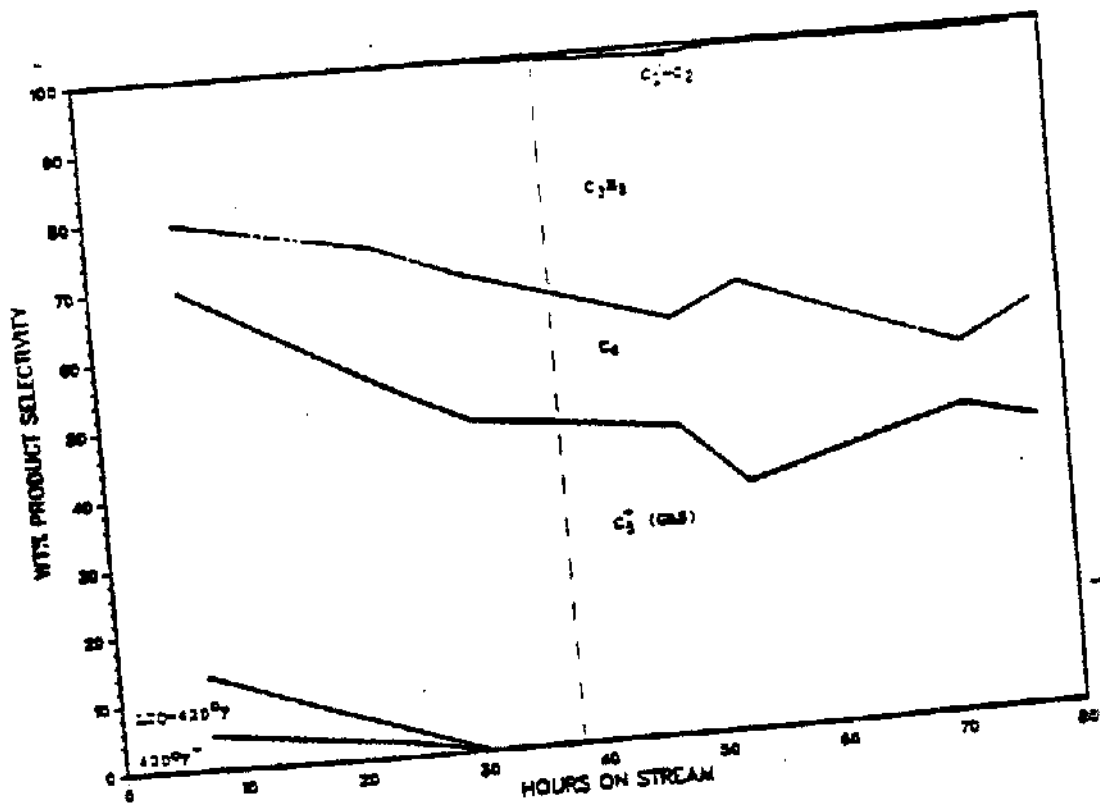
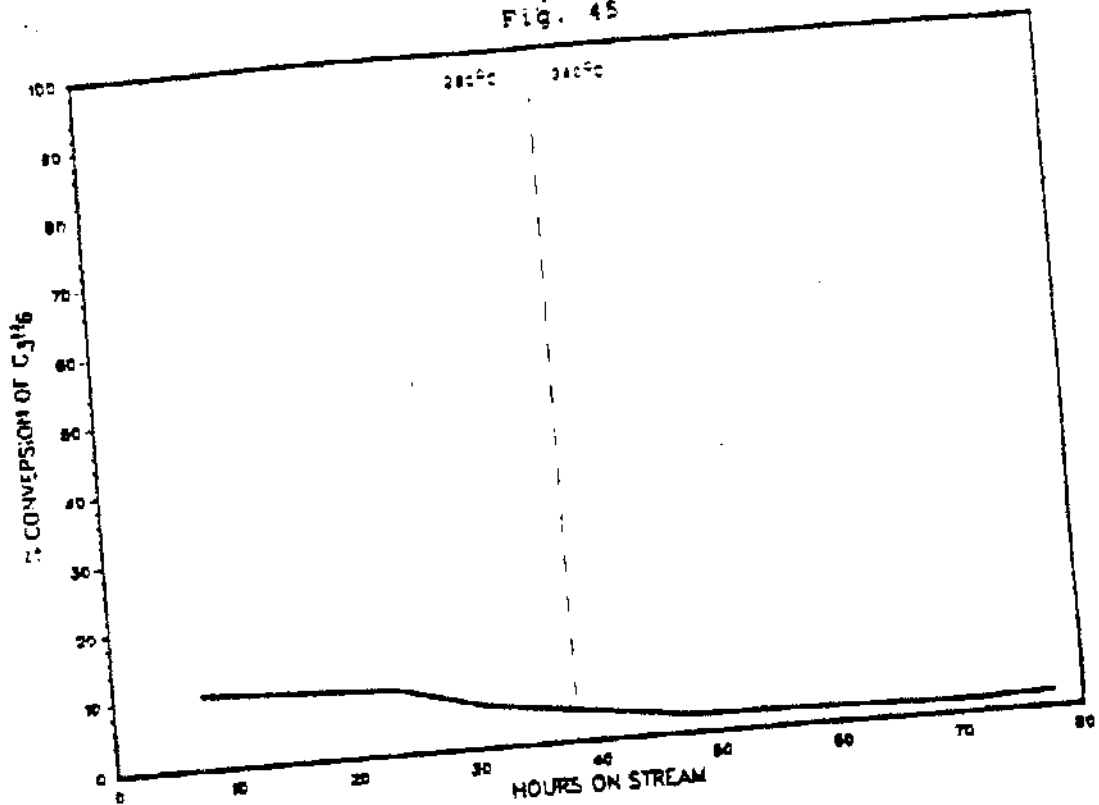
Fig. 43



RUN NO. 9972-09

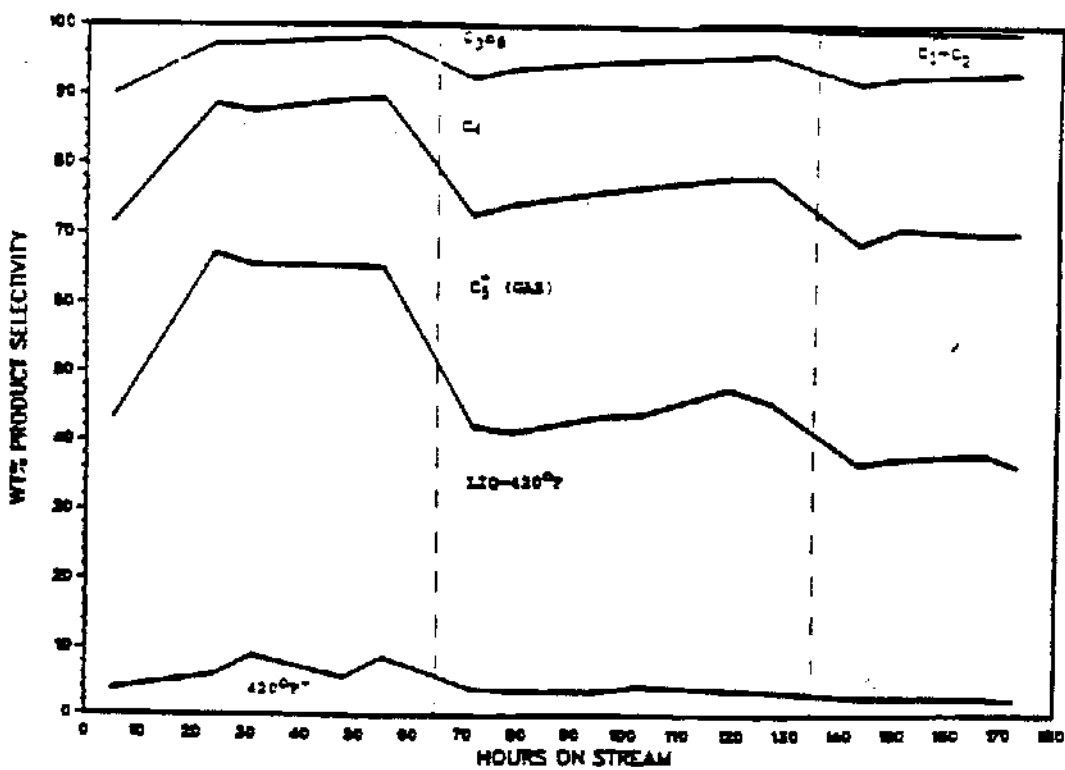
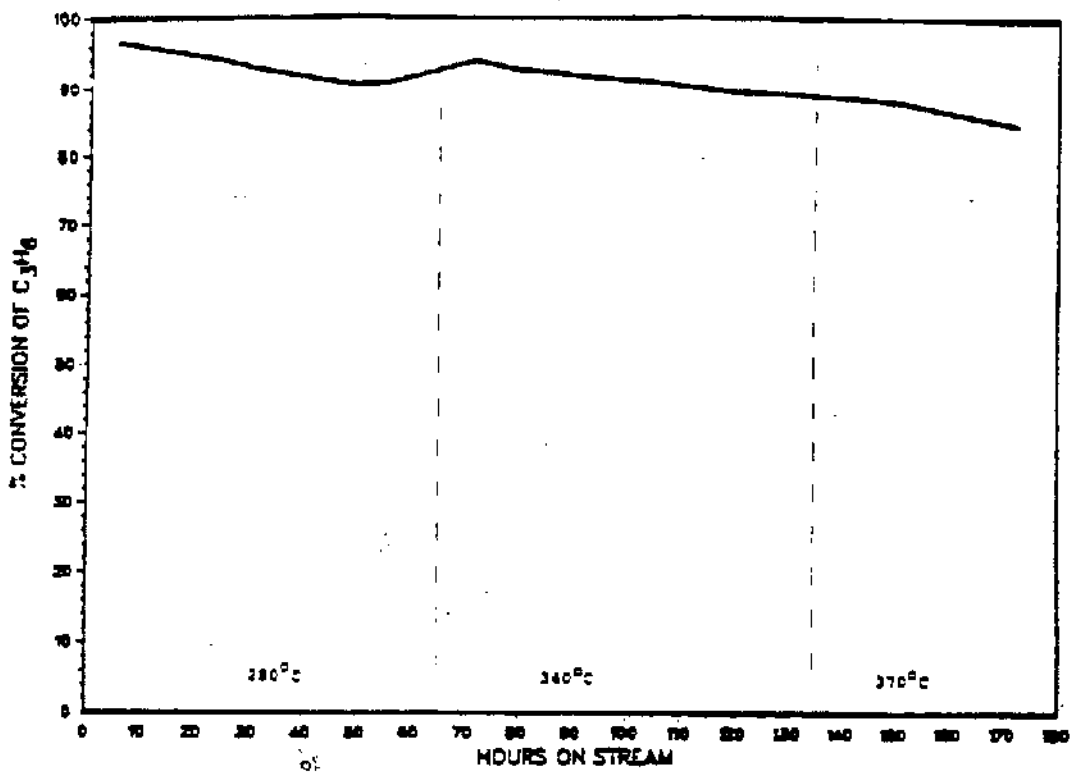
Fig. 44



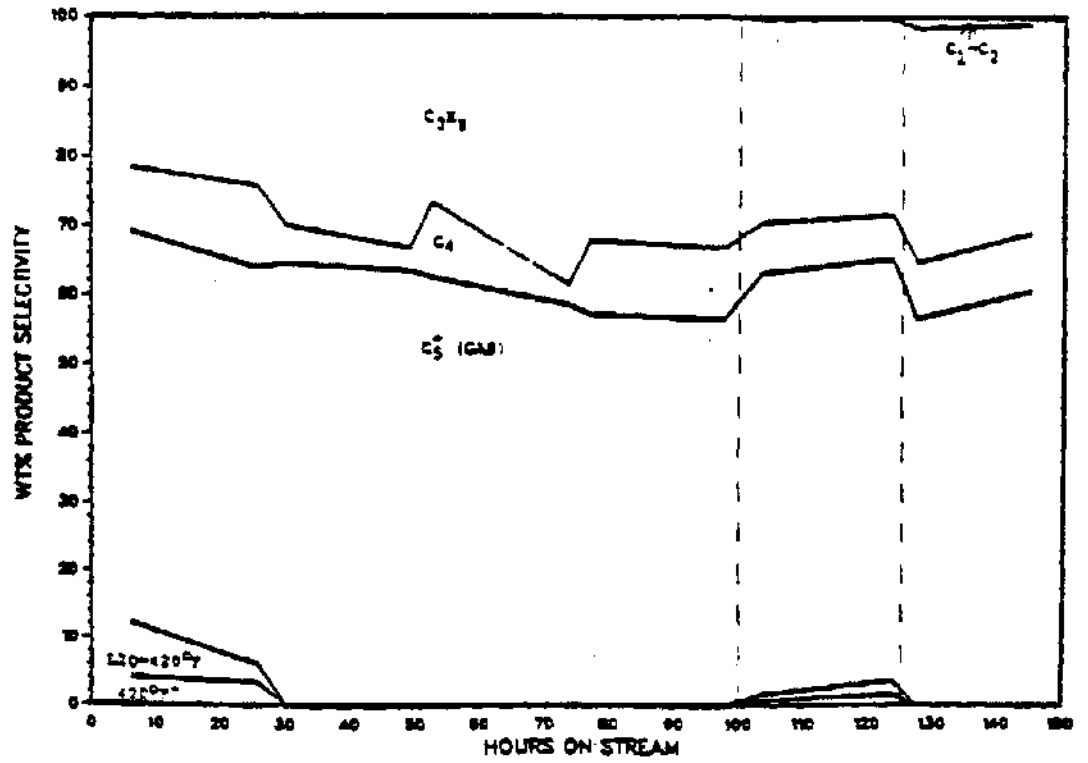
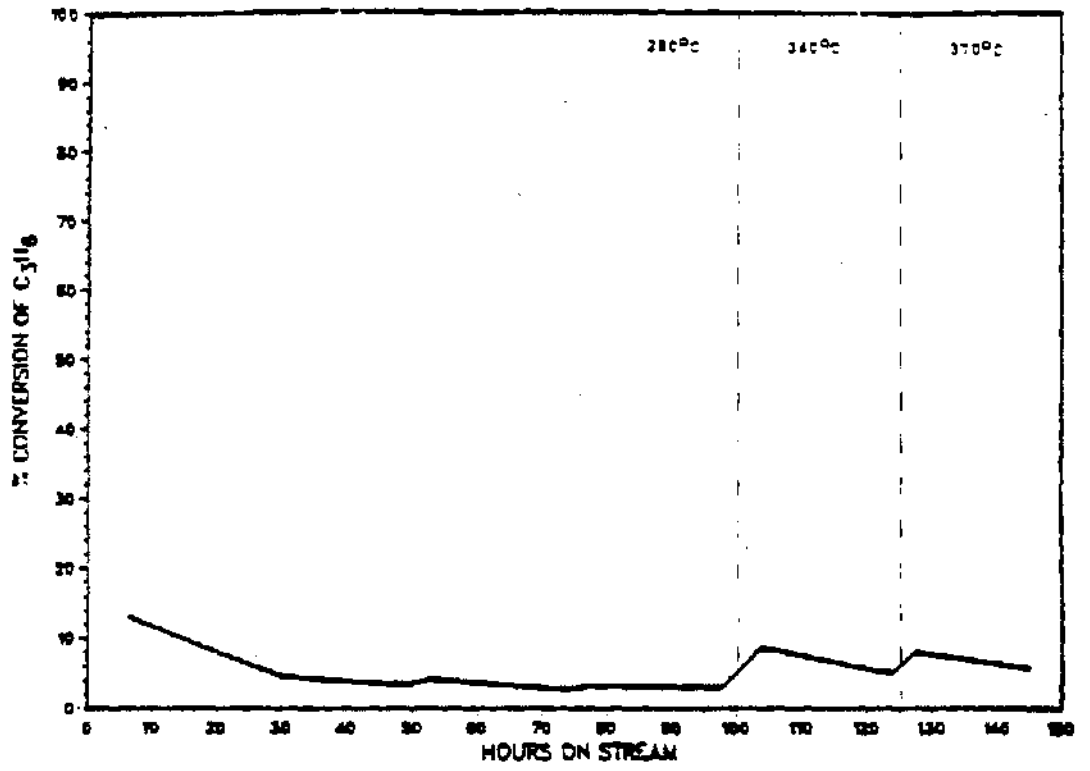


RUN NO. 9972-13

Fig. 46



RUN NO. 9972-14
Fig. 47



RUN NO. 9972-15

Fig. 48

