

FIGURE 21

TEMPERATURE PROFILE OF RUN 215-8-5-5

482°C; 1000 psia; 0% Steam

Catalyst - Harshaw Ni-0104

HOURS ON STREAM

- 0 HRS.
- 25 HRS.
- △ 100 HRS.

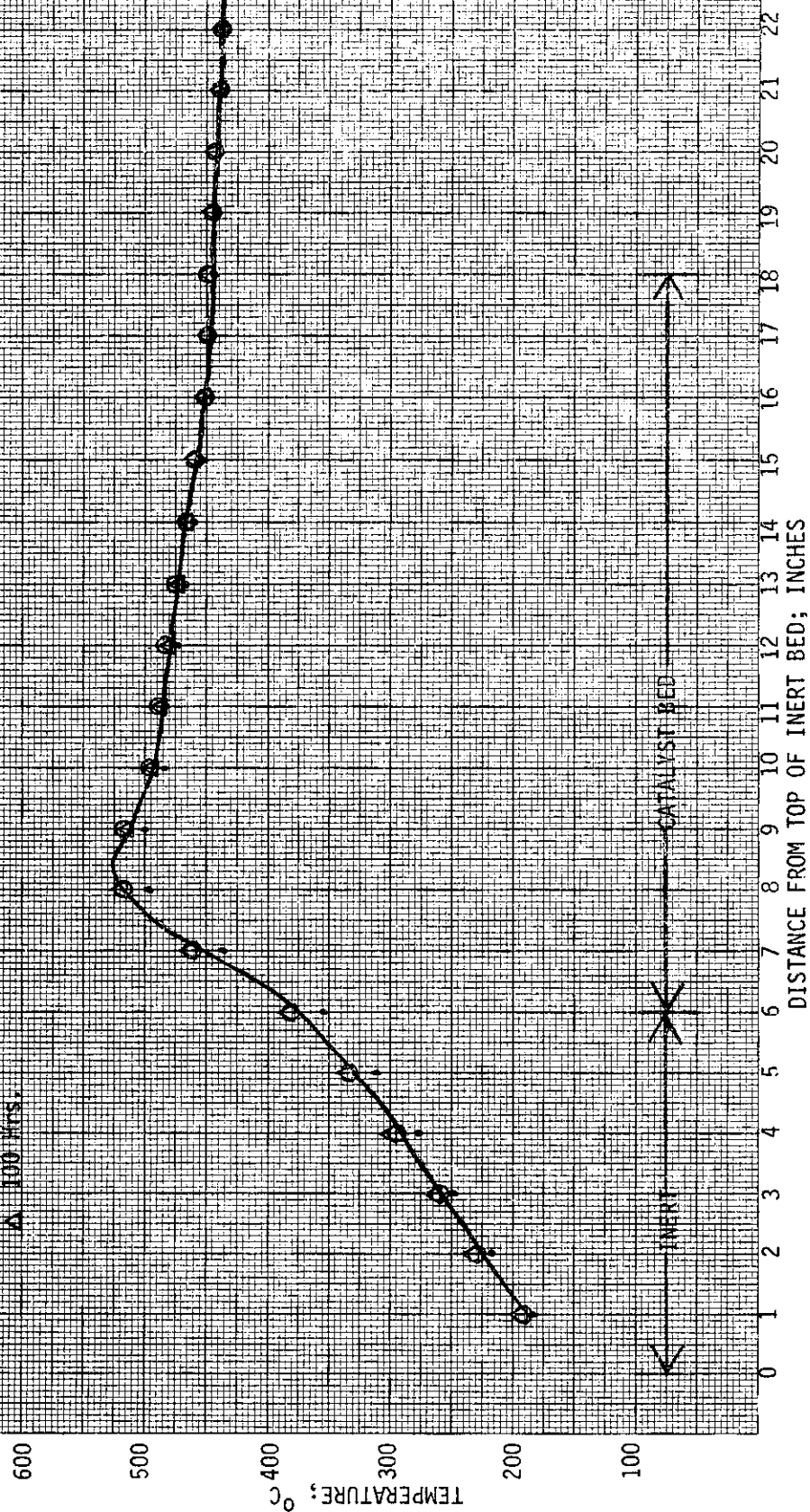


FIGURE 22

K·E
SEMI-LOGARITHMIC 4 CYCLES X 70 DIVISIONS
KEUFFEL & ESSER CO. MADE IN U.S.A.

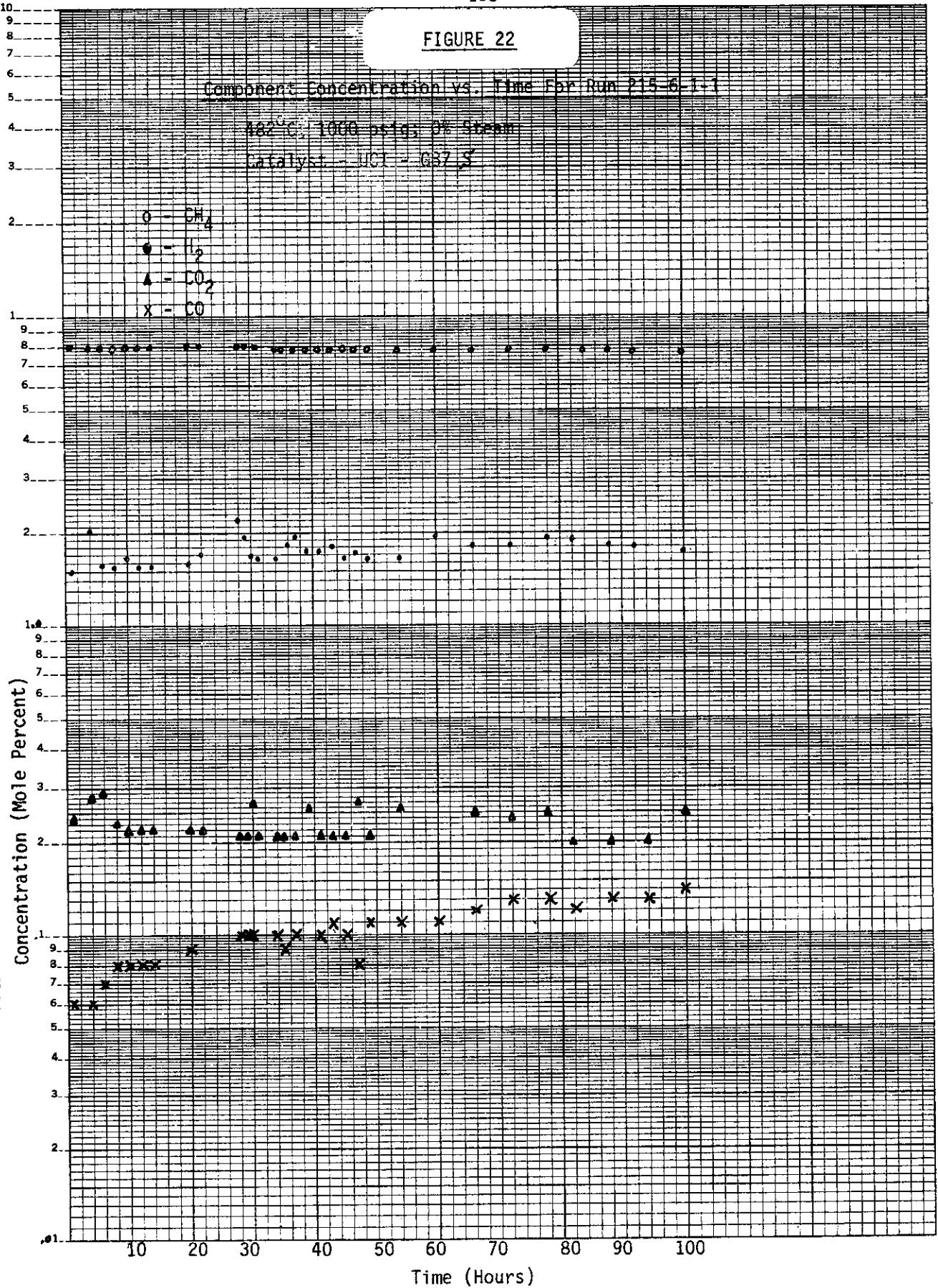


FIGURE 23

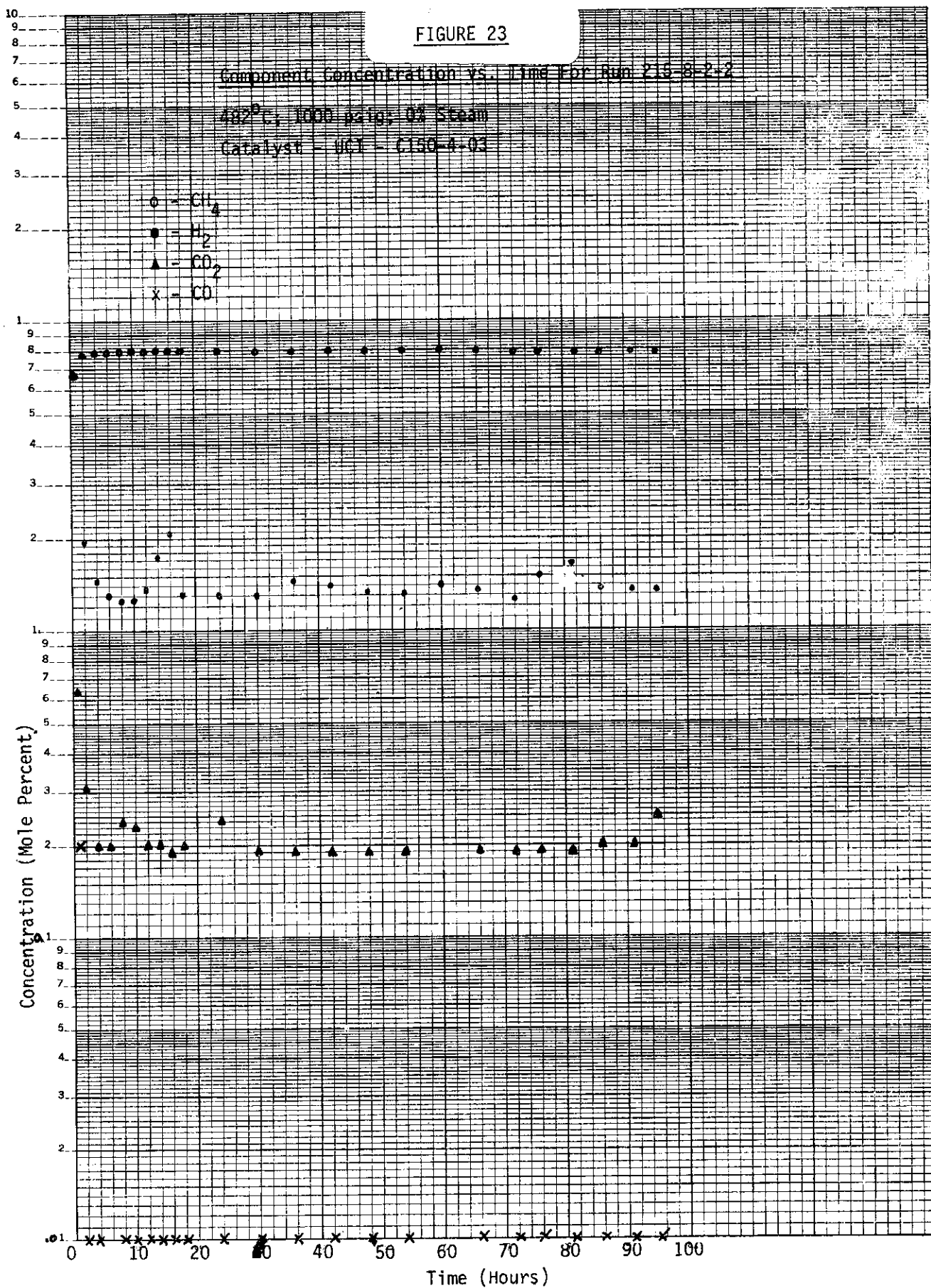


FIGURE 24

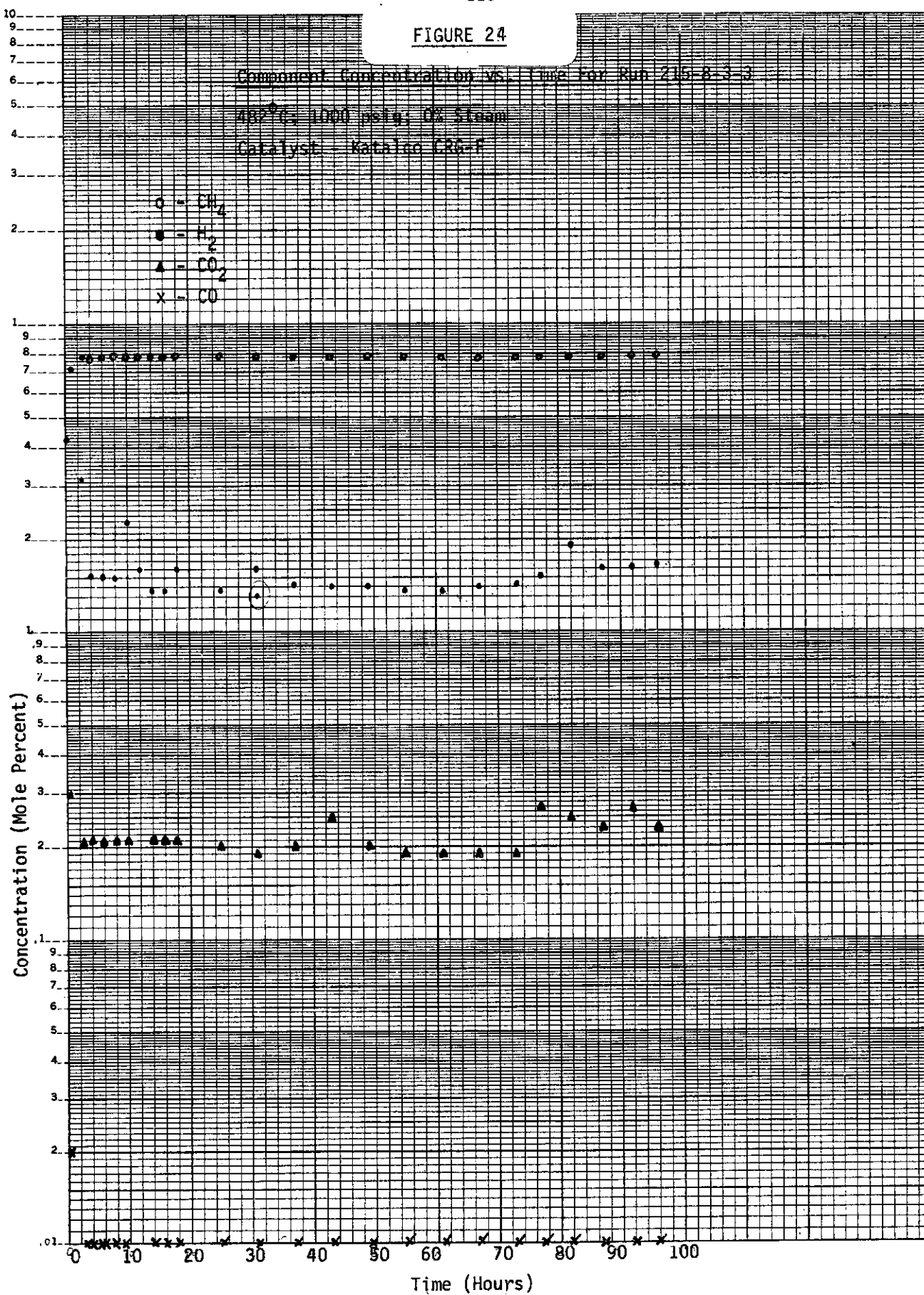
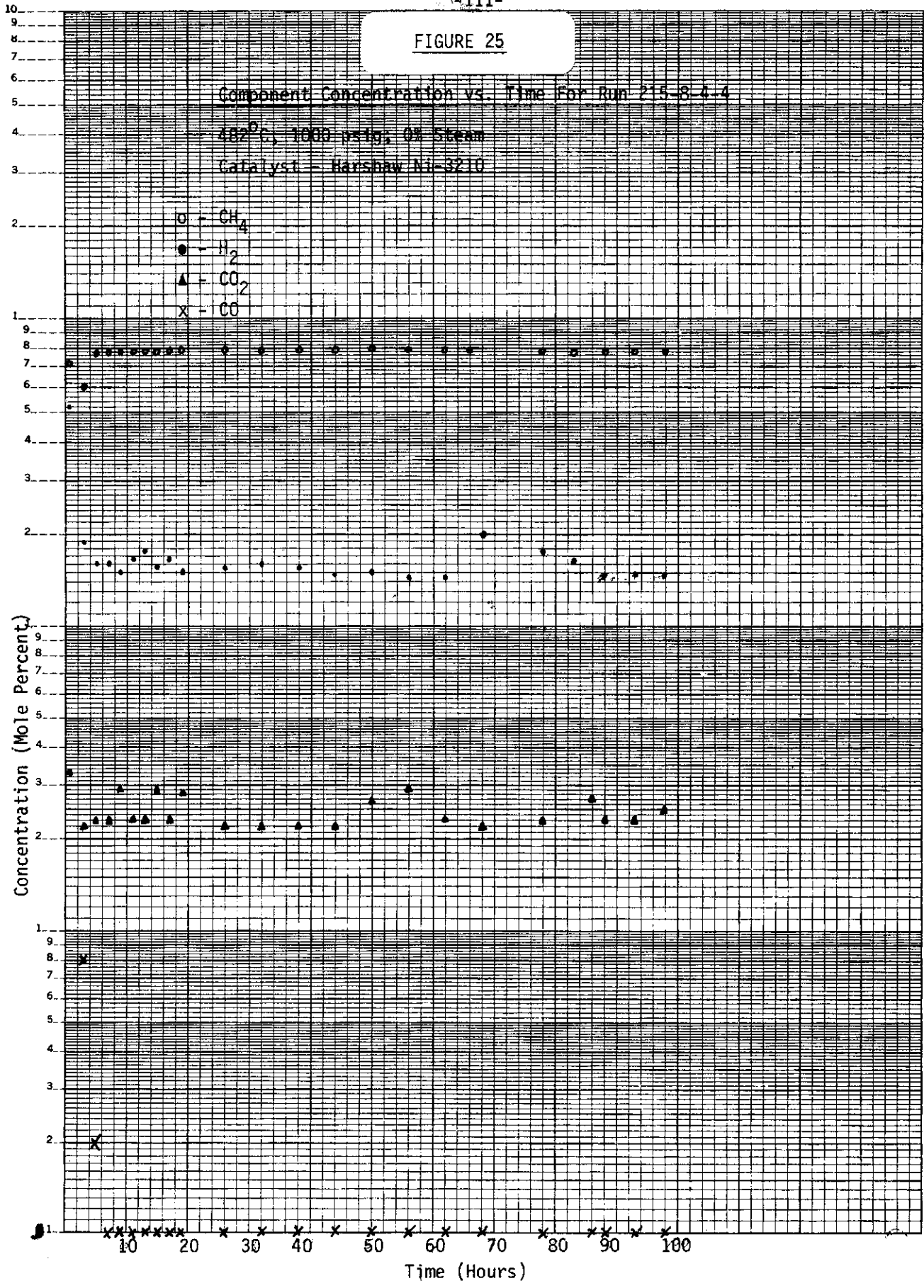
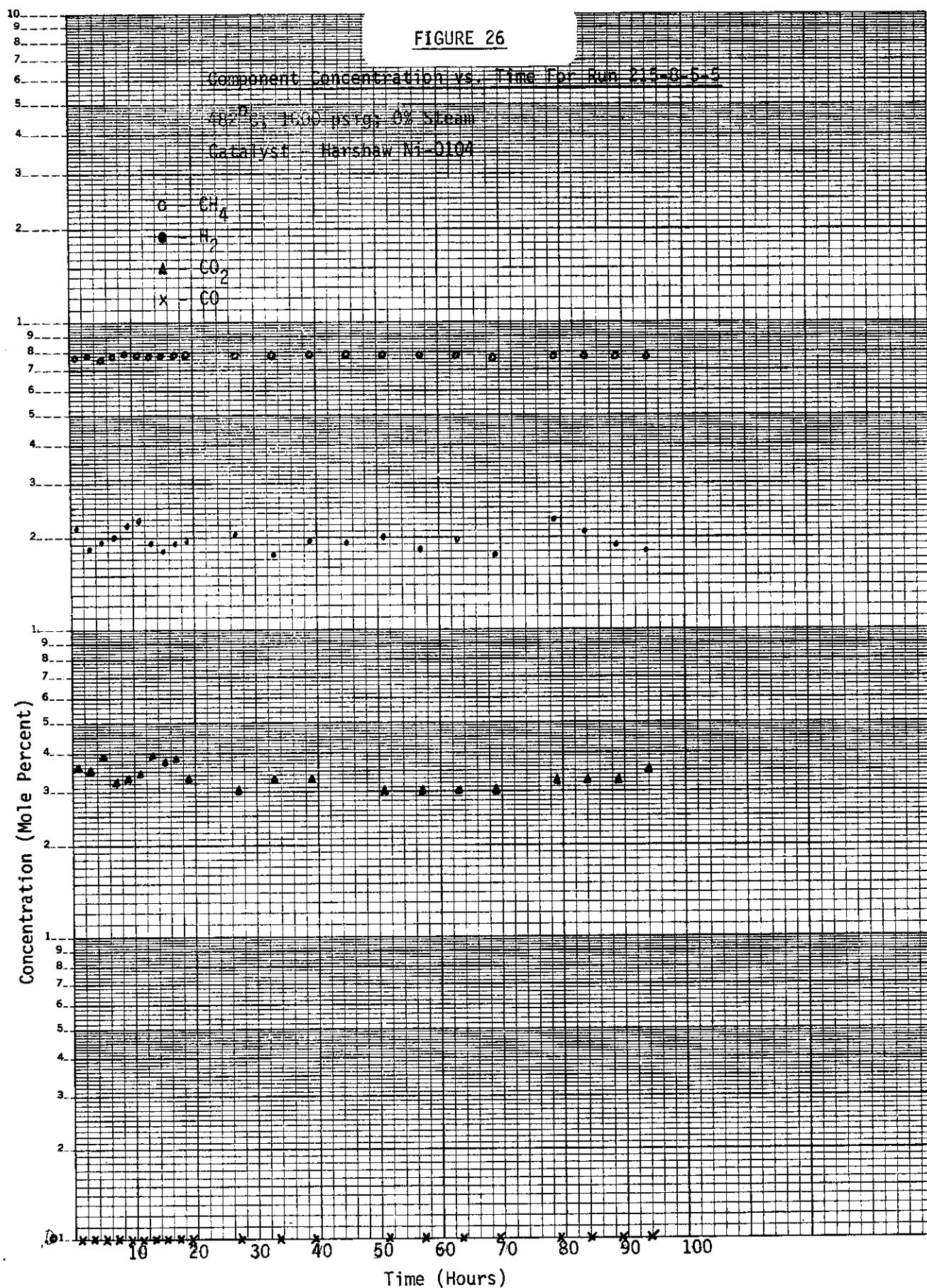


FIGURE 25





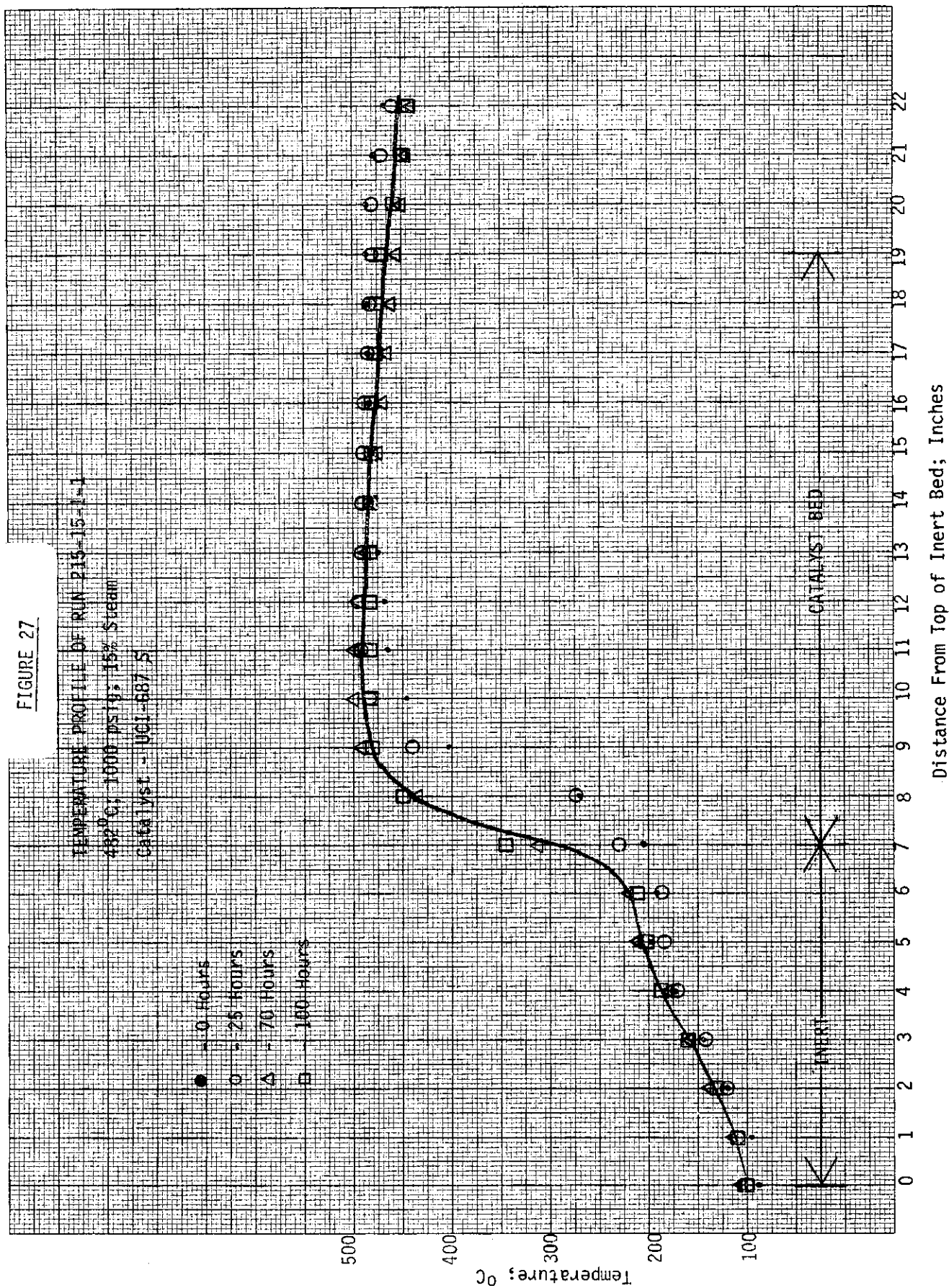


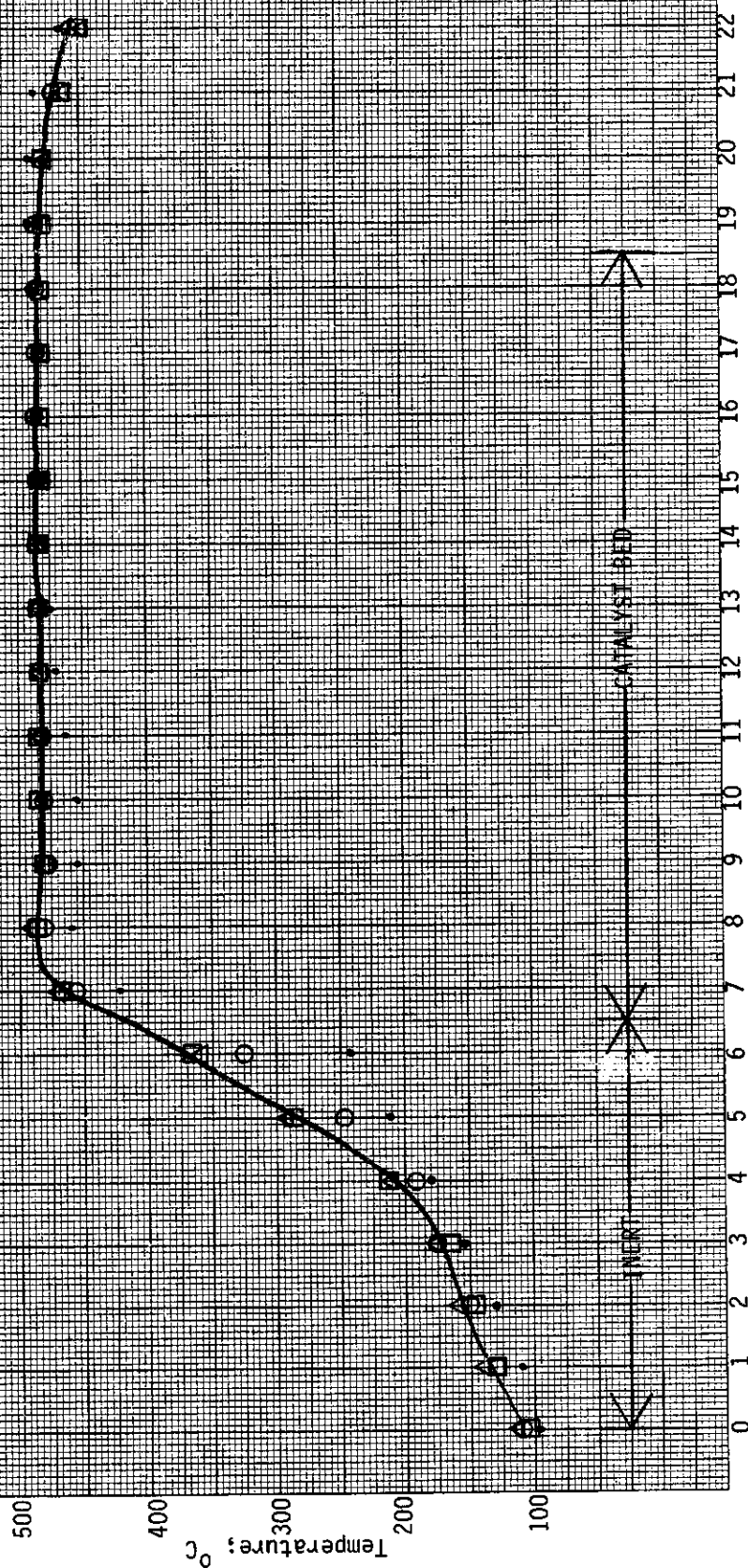
FIGURE 2B

TEMPERATURE PROFILE OF RUN 215-15-2-2

482°C, 1000 psig, 132 S/gram

Catalyst UOI-CU50-4-03

- - 0 Hours
- - 25 Hours
- △ - 70 Hours
- - 100 Hours



Distance From Top of Inert Bed; Inches

FIGURE 29

TEMPERATURE PROFILE OF RUN 215-15-3-3

782°C, 1000 psig, 15% Steam

Catalyst KATALCO CRC-F

- - 0 HOURS
- - 25 HOURS
- △ - 70 HOURS
- - 100 HOURS

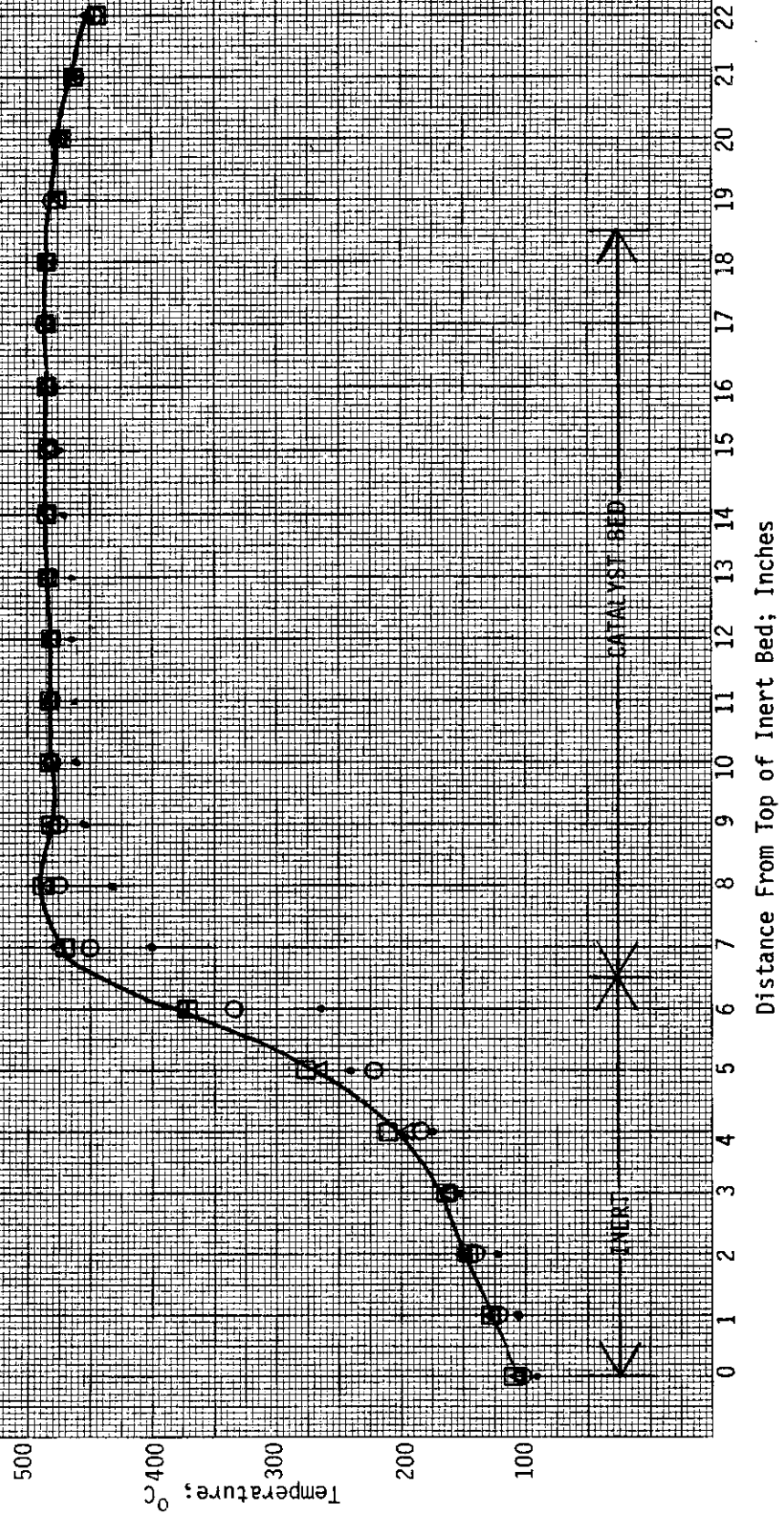


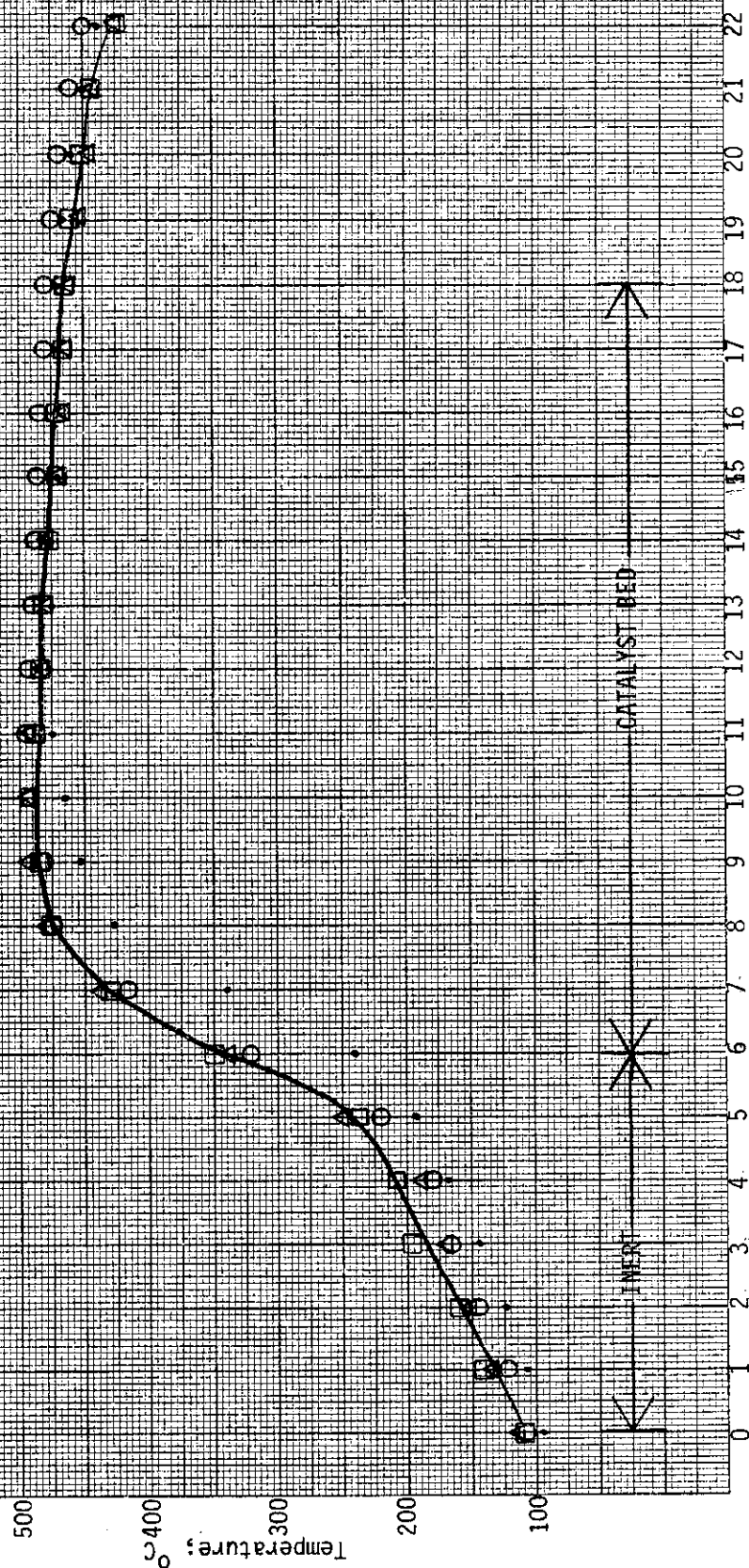
FIGURE 30

TEMPERATURE PROFILE OF RUN 215-15-A-A

482°C; 1000 psig; 15% Steam

Catalyst: Harshaw NI-3210

- 0 Hours
- 25 Hours
- △ 70 Hours
- 100 Hours



Distance From Top of Inert Bed; Inches

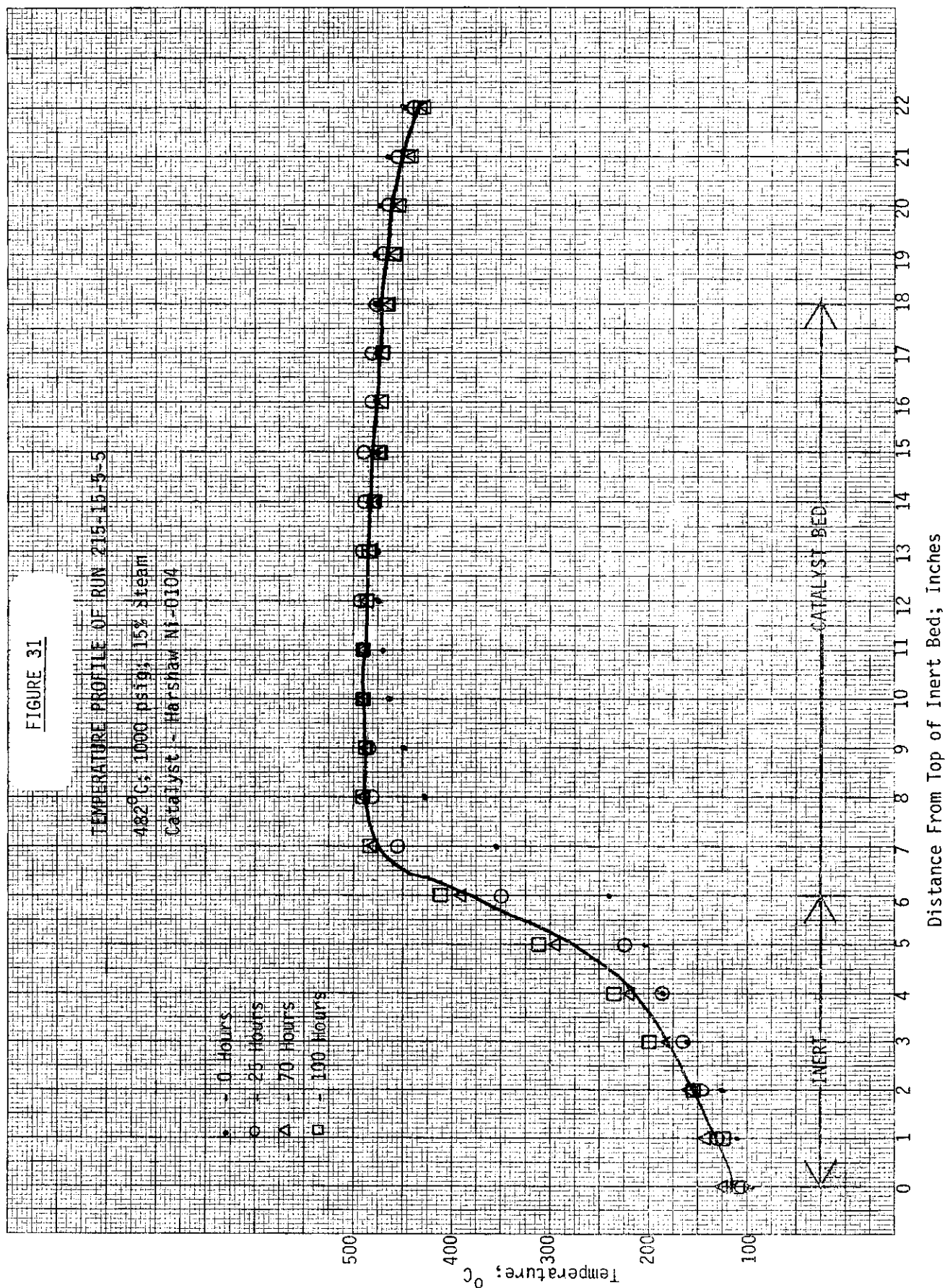


FIGURE 32

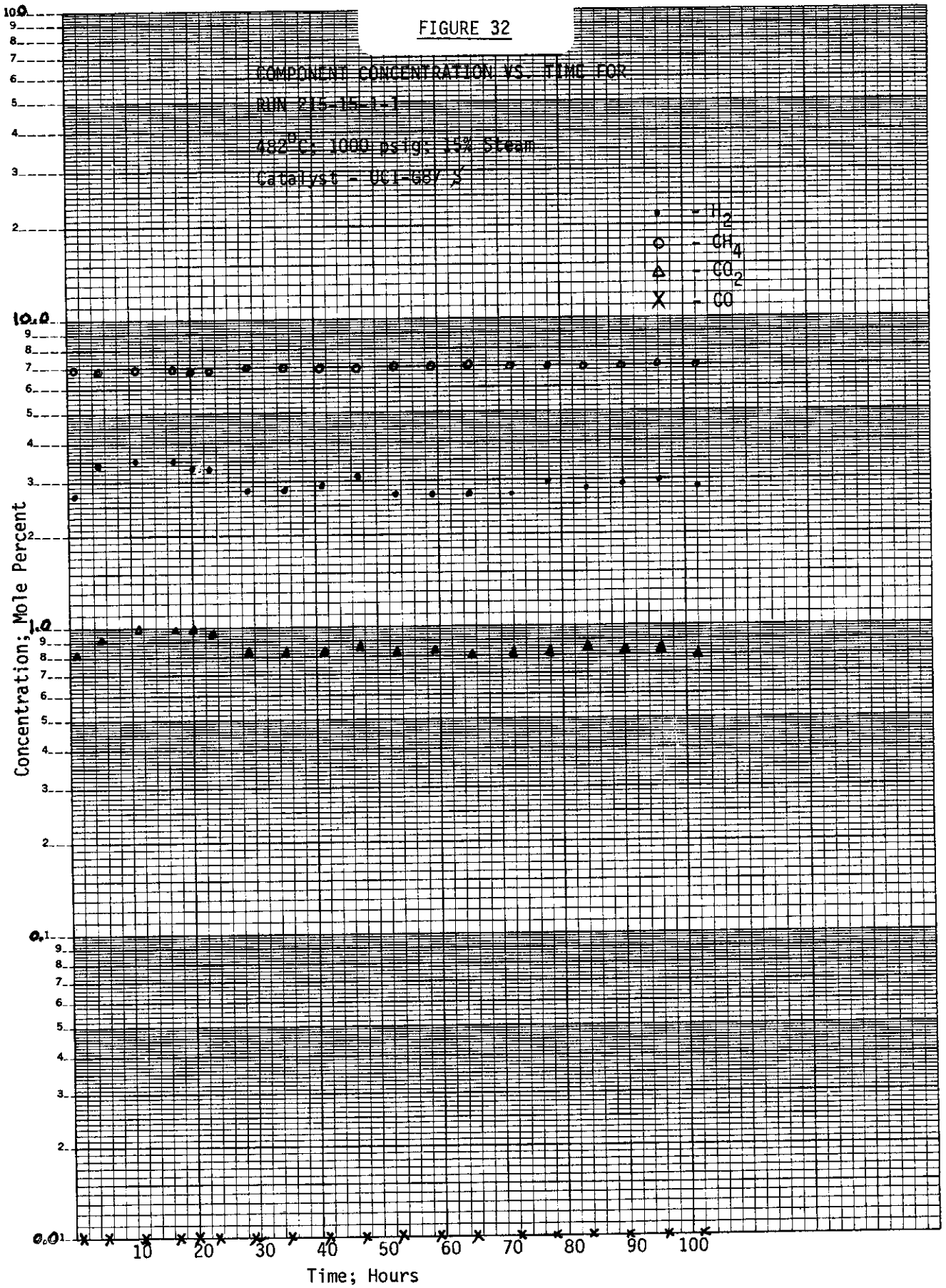


FIGURE 33

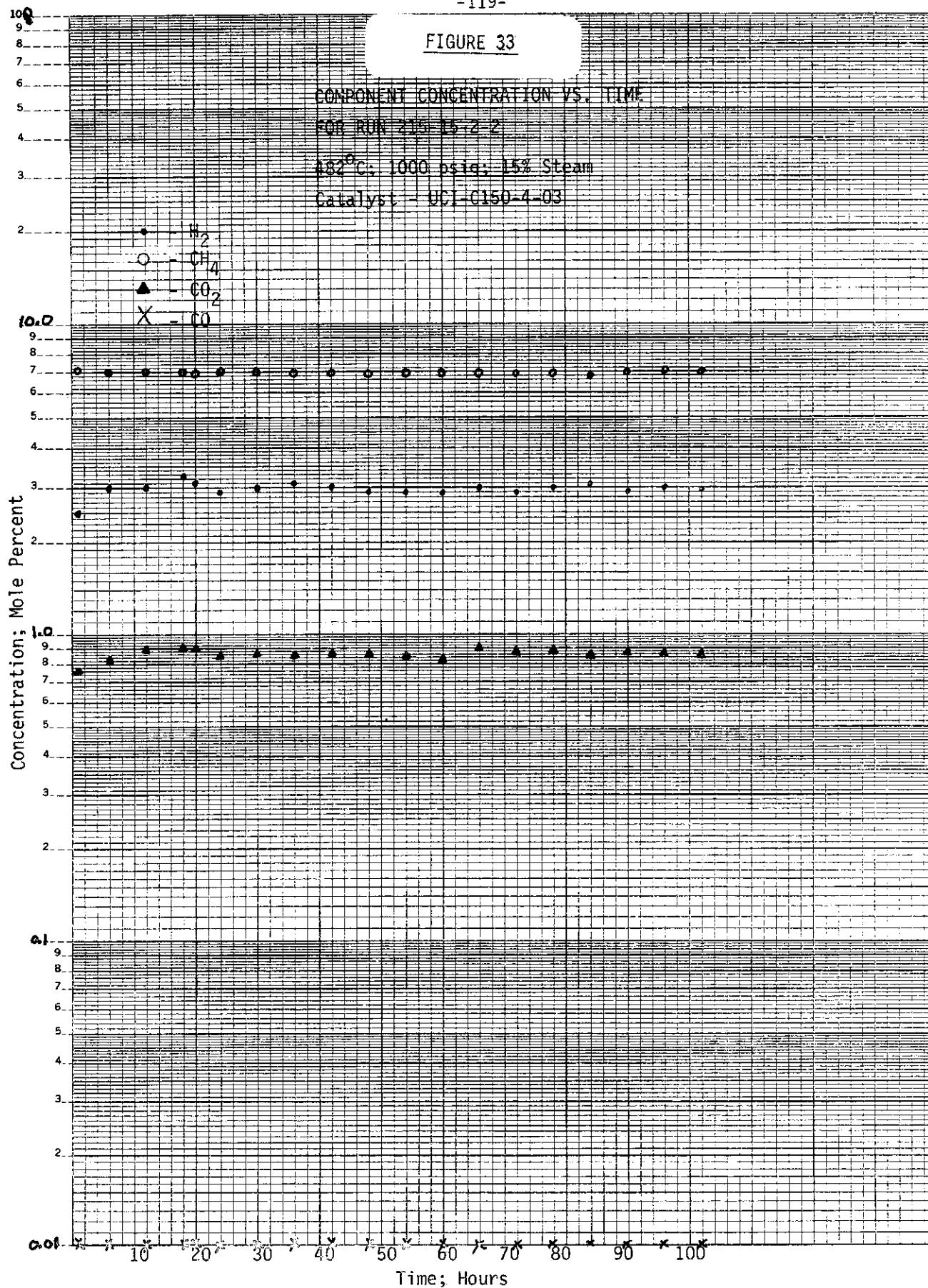
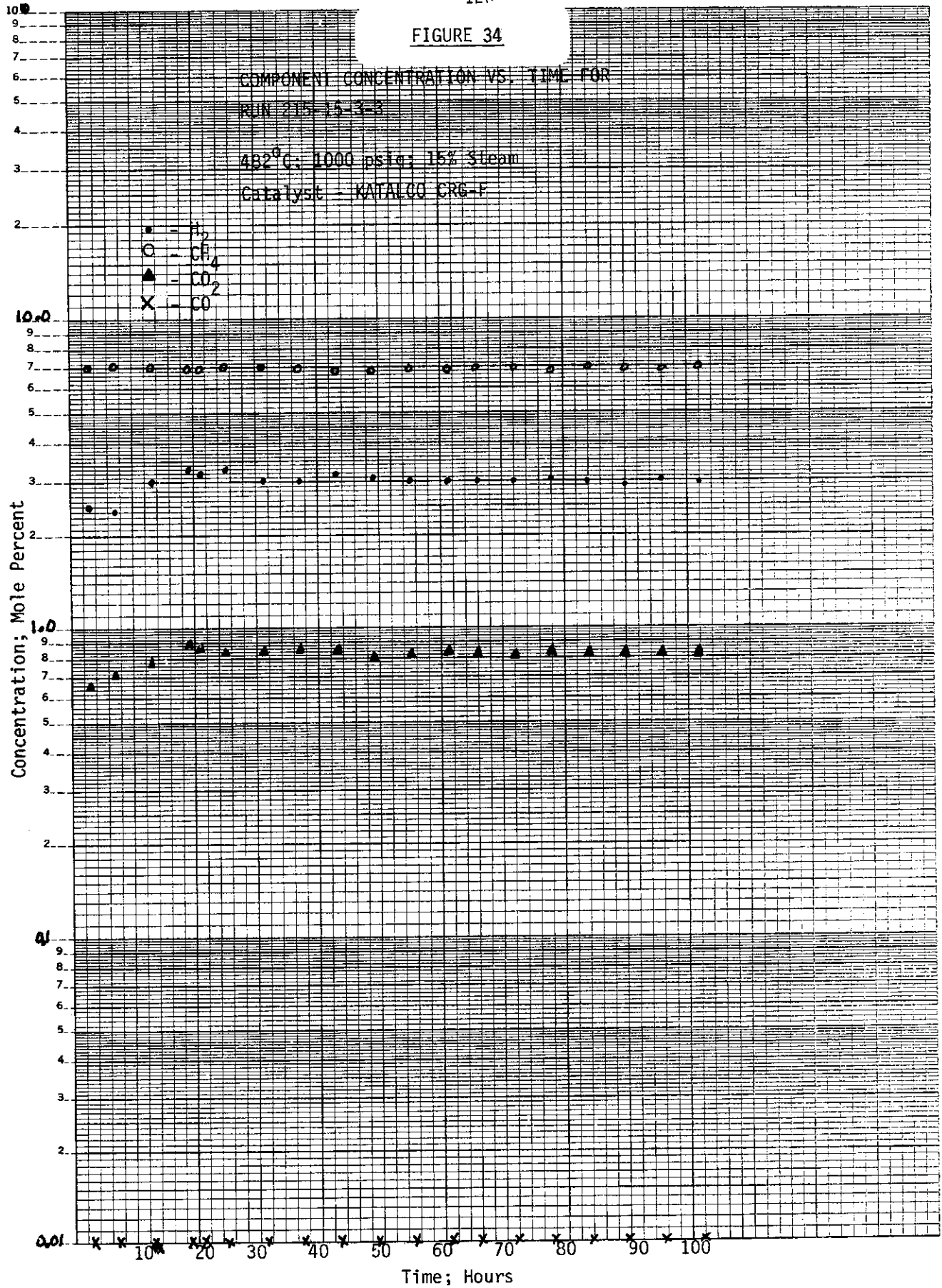


FIGURE 34



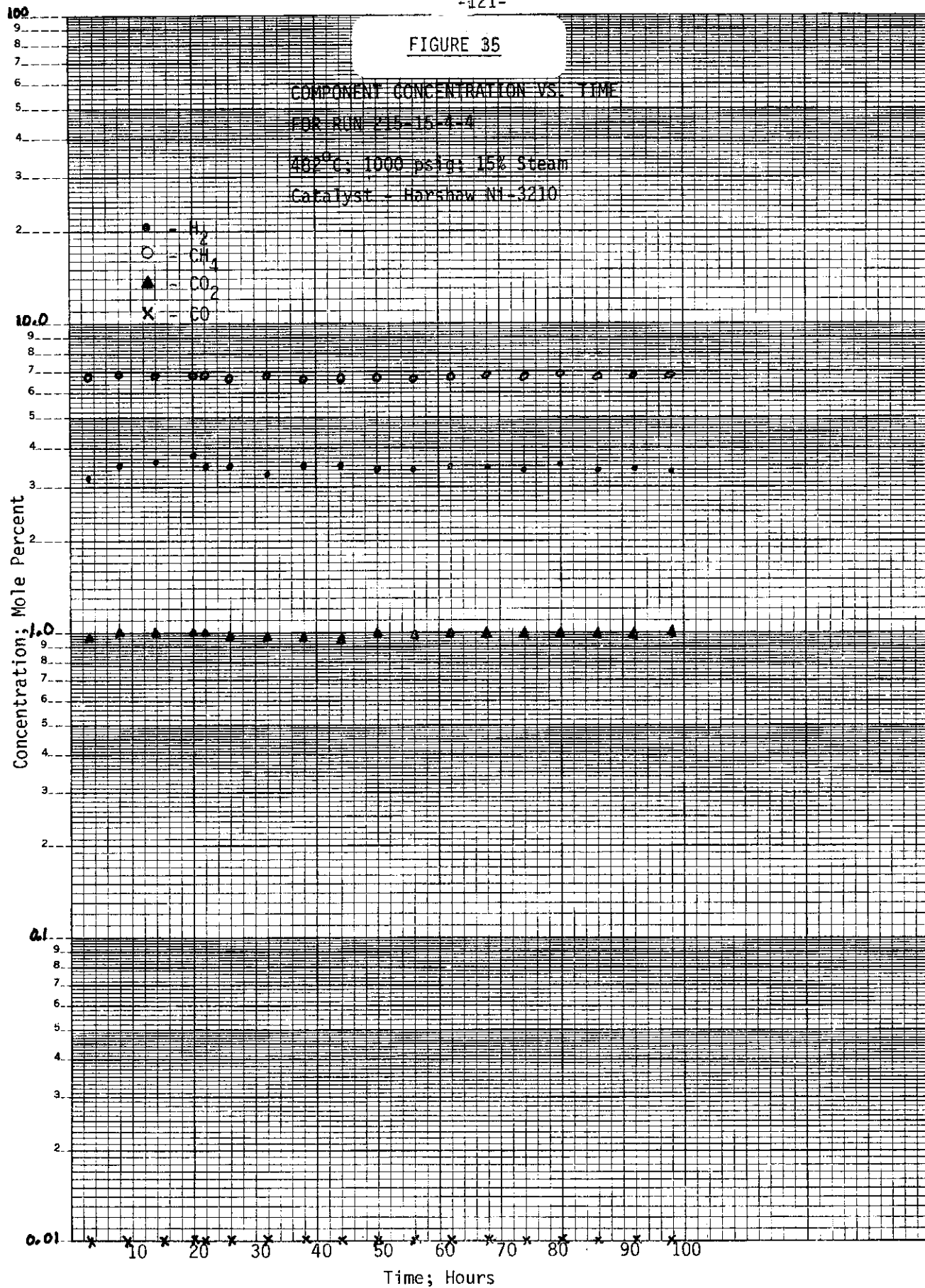


FIGURE 36

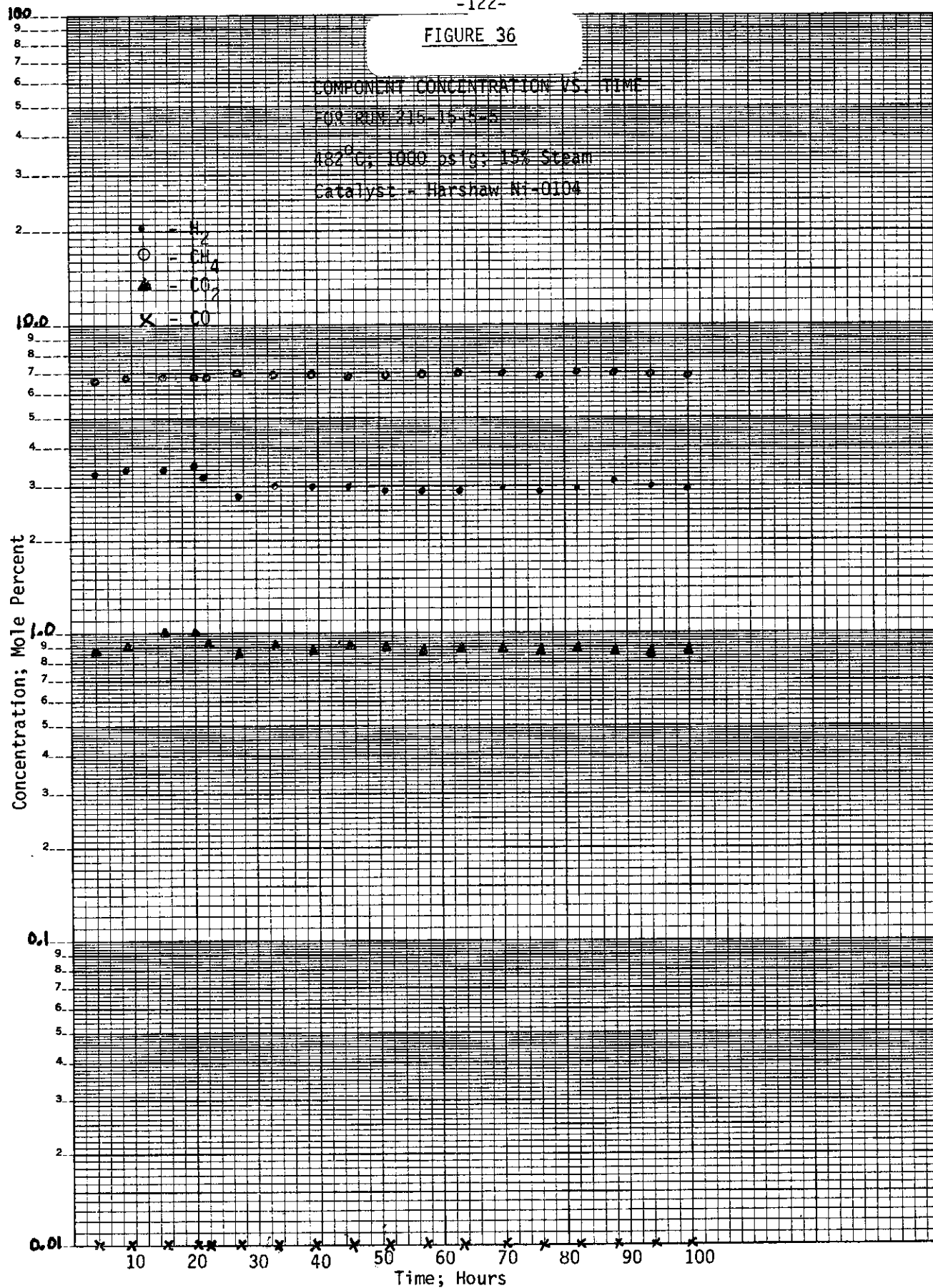


FIGURE 37

Temperature Profile of Run 21b-11-1-1

462°C; 1000 psig; 0% Steam

Catalyst - UCL - 687 S

Hours on Stream

- - 19 hours
- - 66 hours
- △ - 182 hours
- - 307 hours

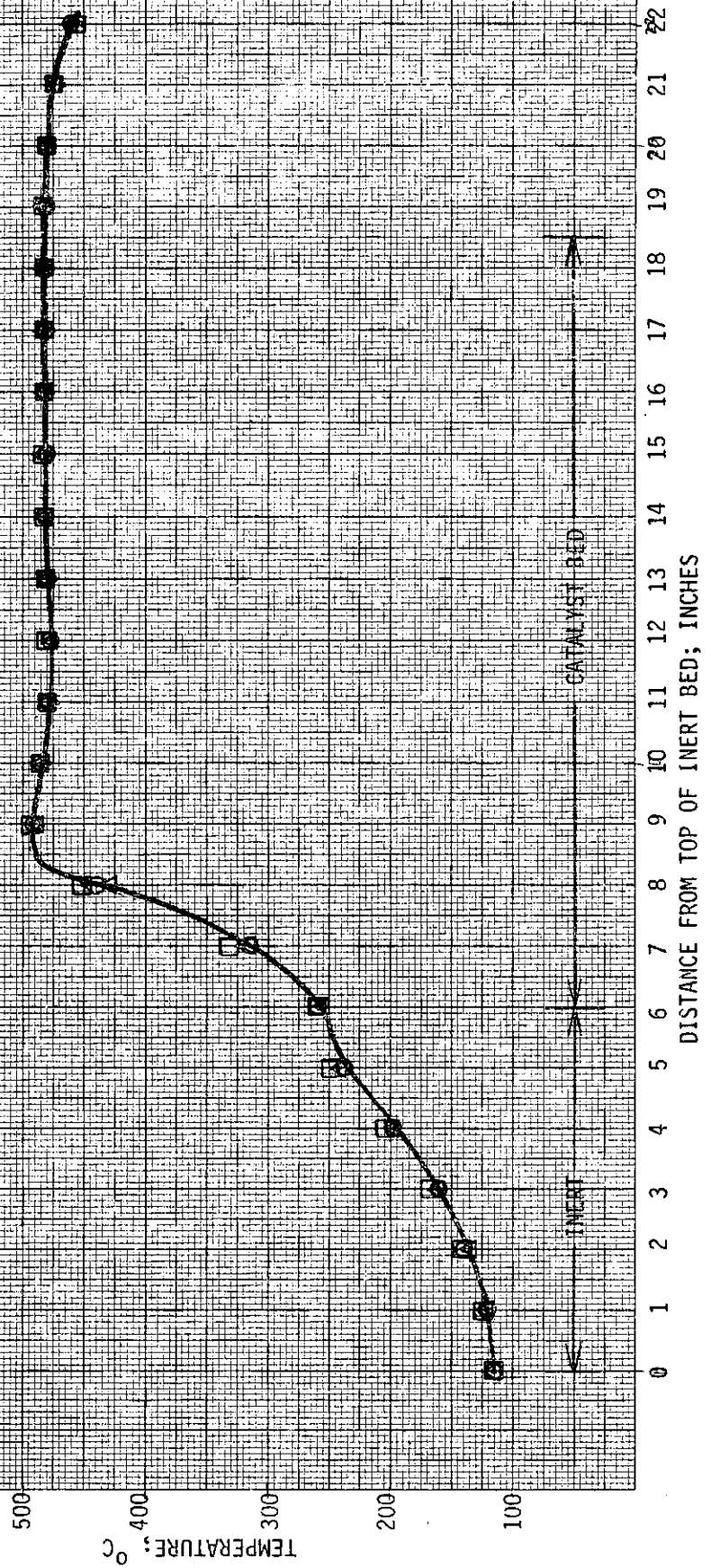


FIGURE 38

Temperature Profile of Run 215-11-2-2

452°C; 1000 psig; 0% Steam

Catalyst - UC-C150-4-03

HOURS ON STREAM

● - 19 hours

○ - 55 hours

△ - 162 hours

□ - 307 hours

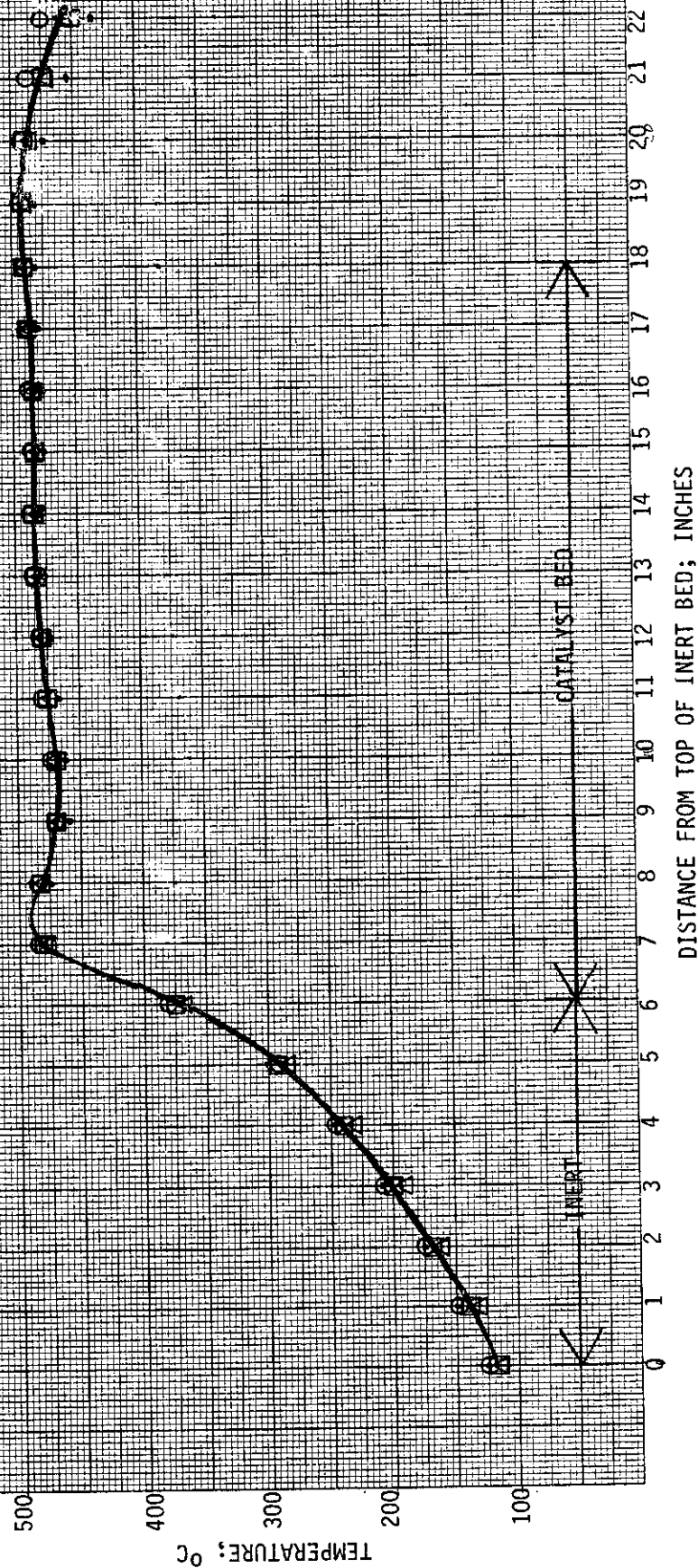


FIGURE 39

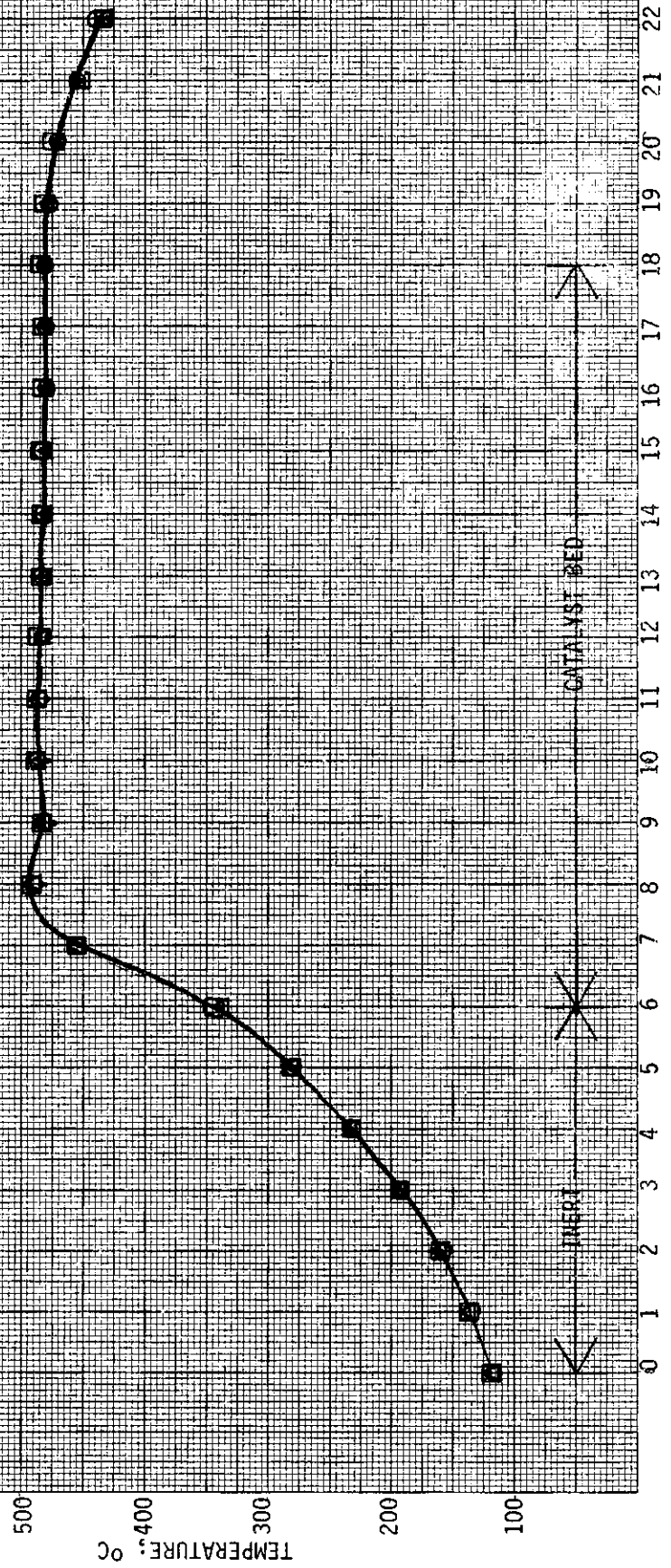
Temperature Profile of Run 215-11-3-3

462°C, 1000 psig, 0% Steam

Catalyst - Karalco CRO-F

Hours on Stream

- - 19 hours
- - 66 hours
- △ - 162 hours
- - 307 hours



INERT

CATALYST BED

DISTANCE FROM TOP OF INERT BED; INCHES

FIGURE 40

Temperature Profile of Run 215-13-1-1

482°C, 3000 psig, 0% Steam

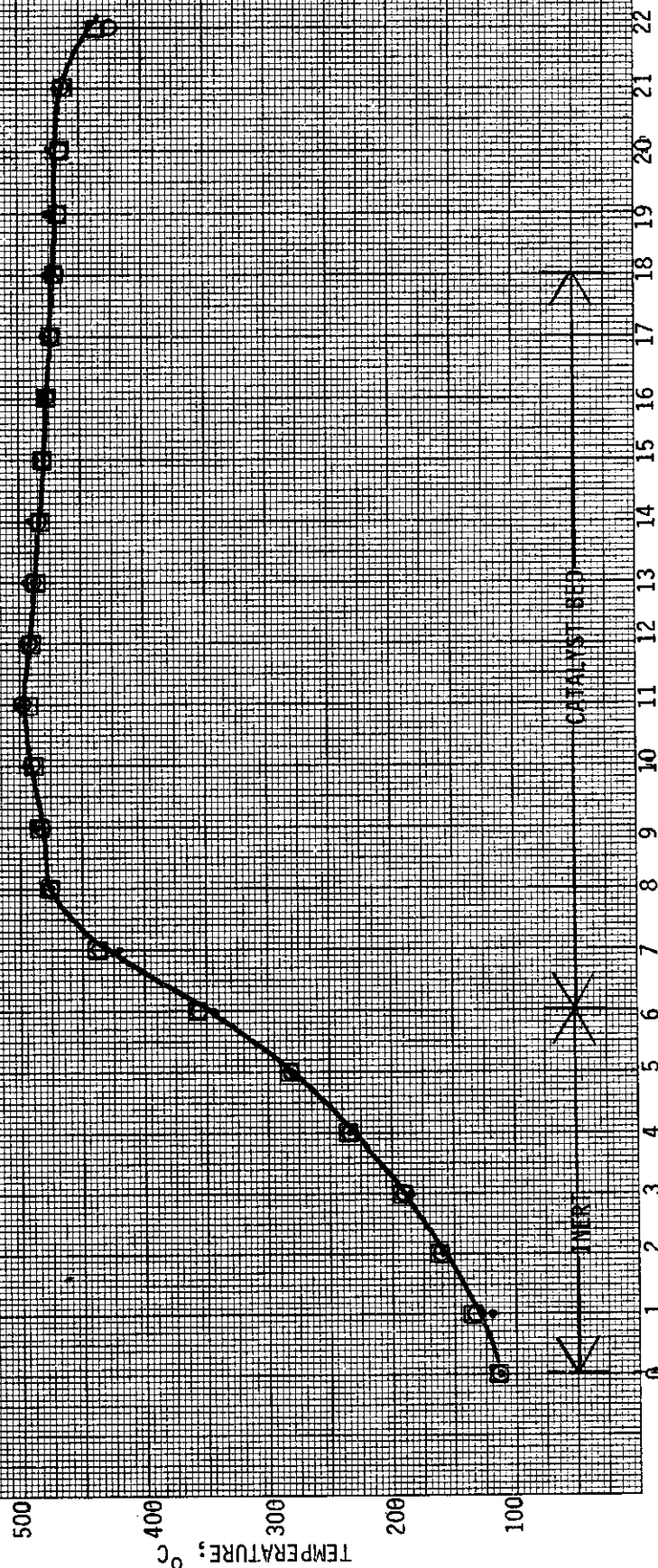
Catalyst - Harshaw N-3210

Hours on Stream

● 7 hours

○ 101 hours

□ 250 hours



DISTANCE FROM TOP OF INERT BED; INCHES