

Figure 1. H_2 TPR of various metal promoted Co/Al_2O_3 catalysts [30 cc/min of 5% H_2/Ar , $5^\circ C/min$]: (a) Co.005, (b) Co.053, (c) Co.069, (d) Co.067, (e) Co.068, (f) Co.066, (g) CoW.10

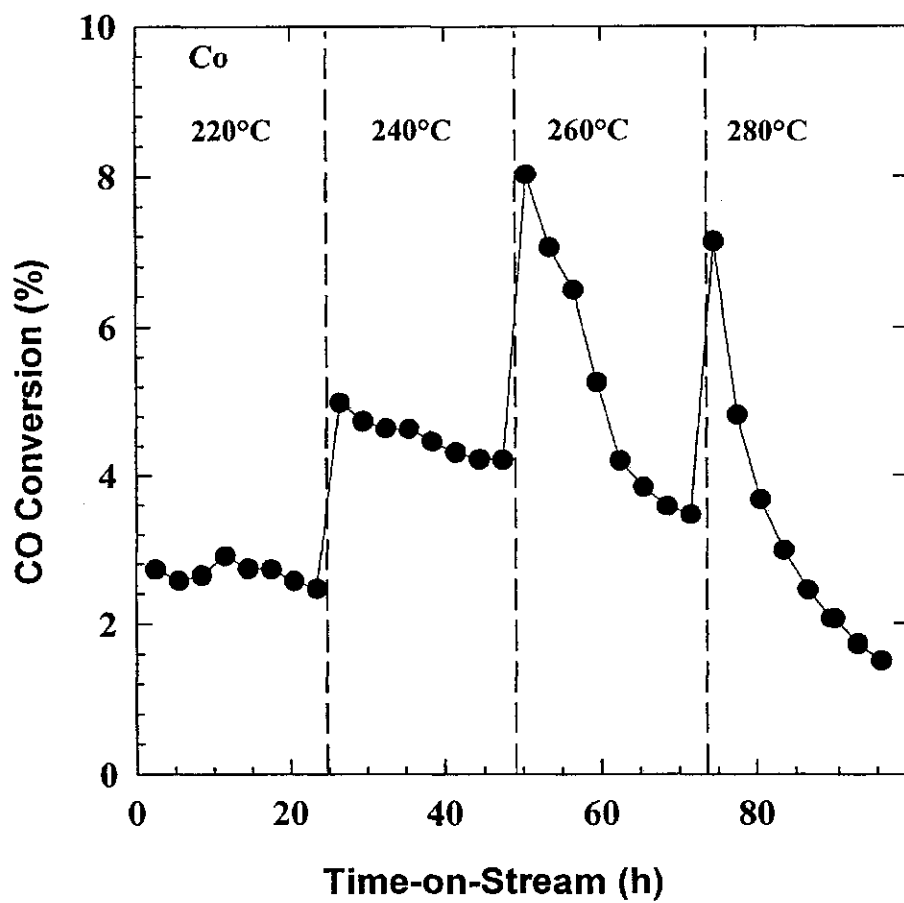


Figure 2. Effect of temperature and time-on-stream on CO conversion for Co.005

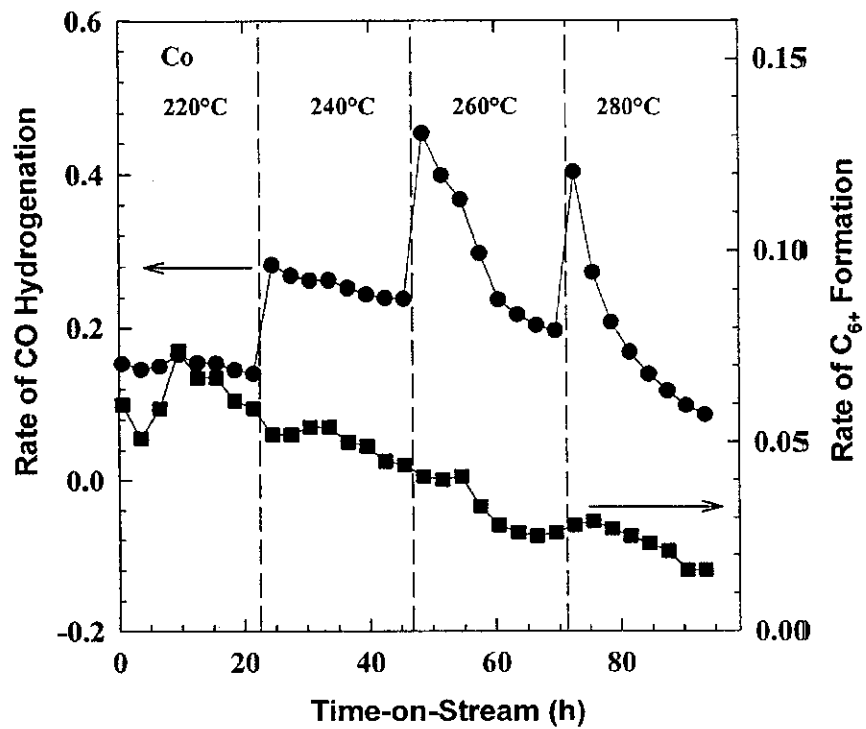


Figure 3. Effect of temperature and time-on-stream on rates of total hydrocarbon and C₆₊ formation for Co.005

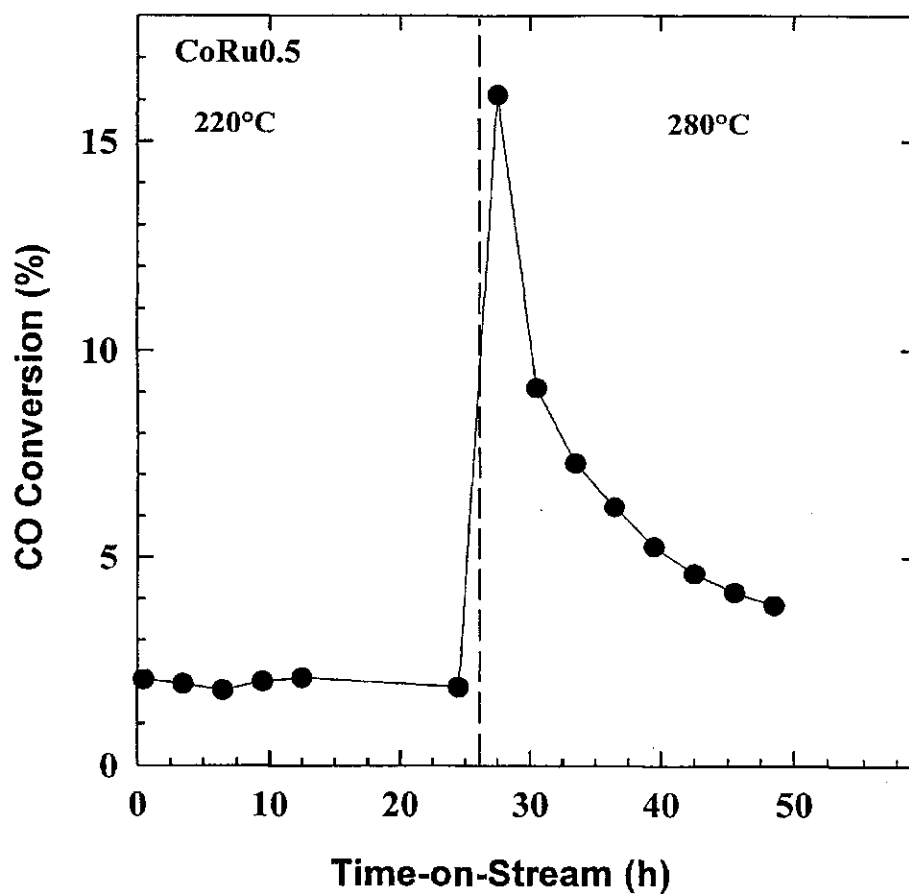


Figure 4. Effect of temperature and time-on-stream on CO conversion for Co.053

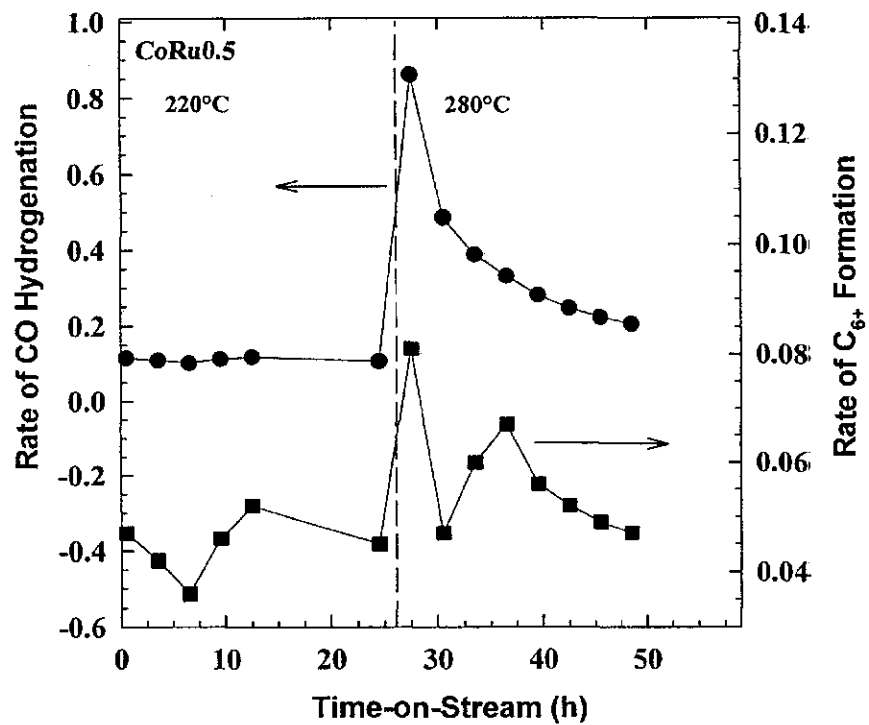


Figure 5. Effect of temperature and time-on-stream on rates of total hydrocarbon and C₆₊ formation for Co.053

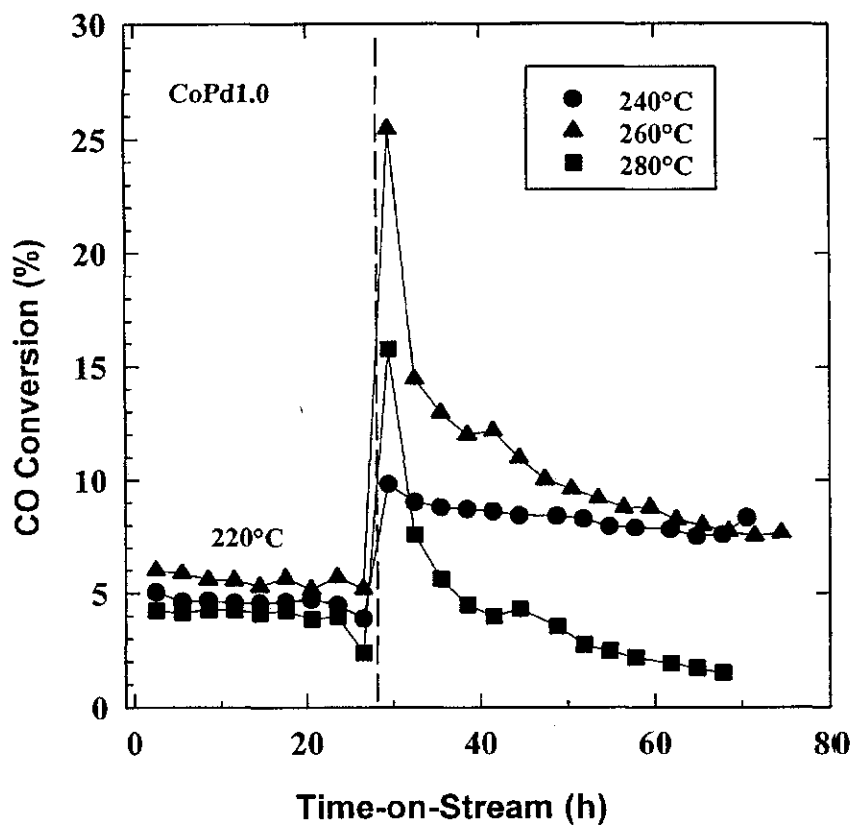


Figure 6. Effect of temperature and time-on-stream on CO conversion for Co.068

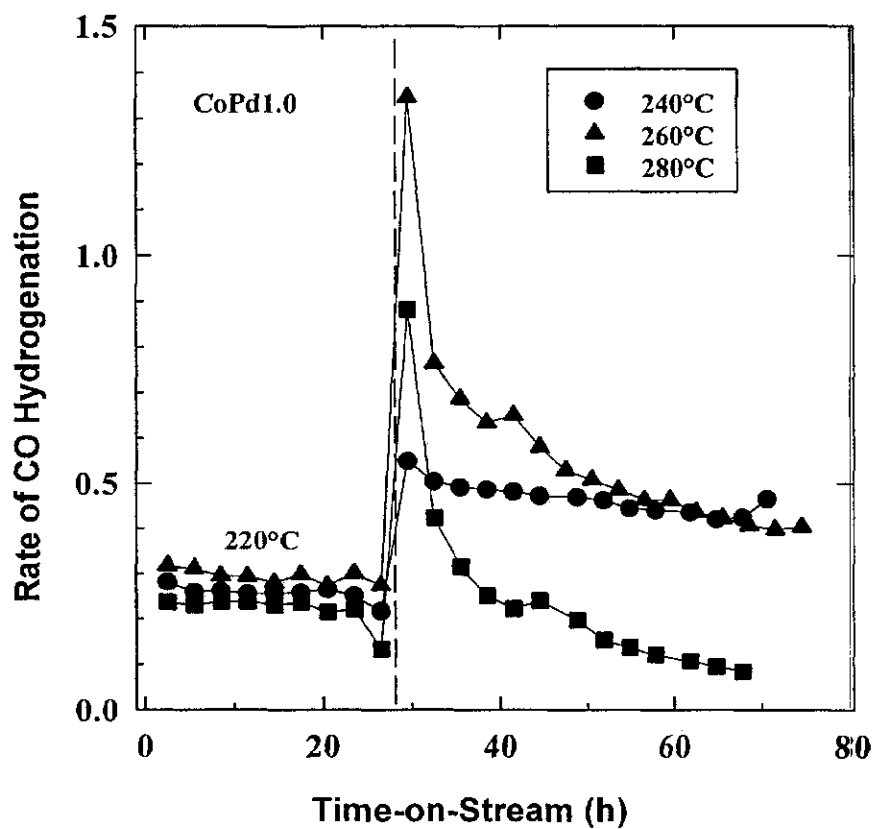


Figure 7. Effect of temperature and time-on-stream on rates of total hydrocarbon formation for Co.068

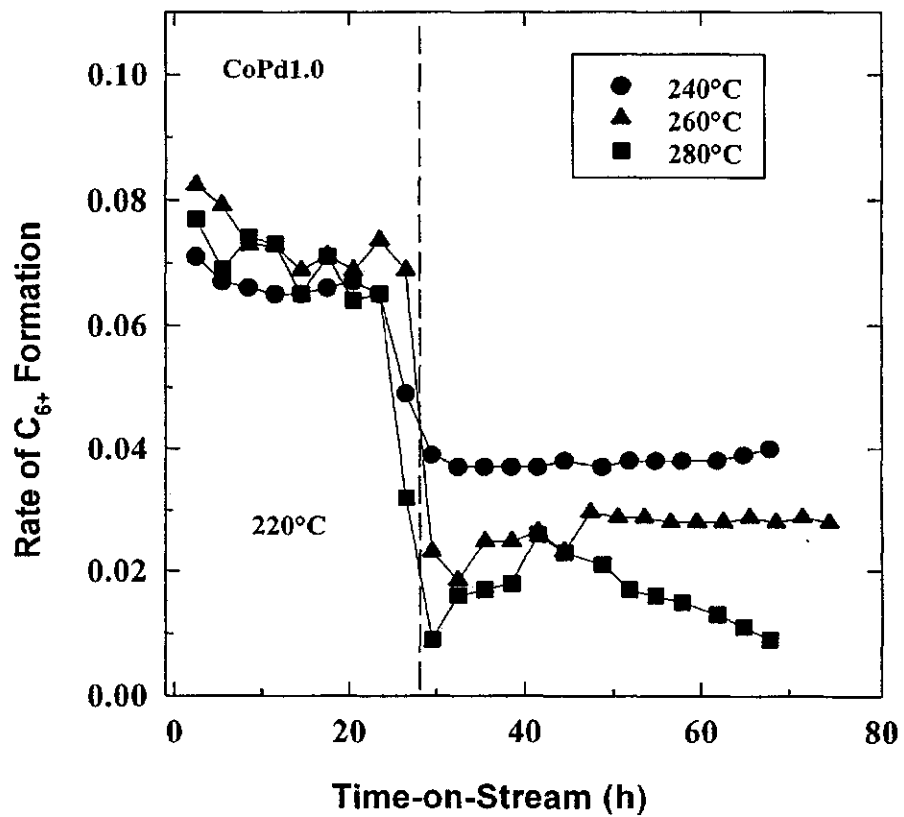


Figure 8. Effect of temperature and time-on-stream on rates of C₆₊ formation for Co.068

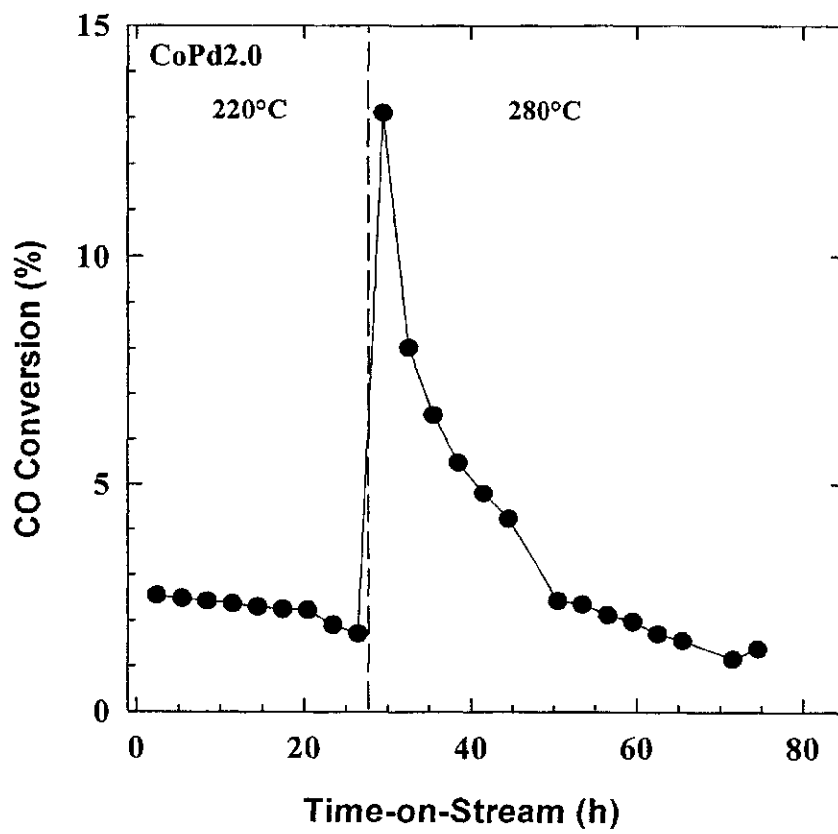


Figure 9. Effect of temperature and time-on-stream on CO conversion for Co.067

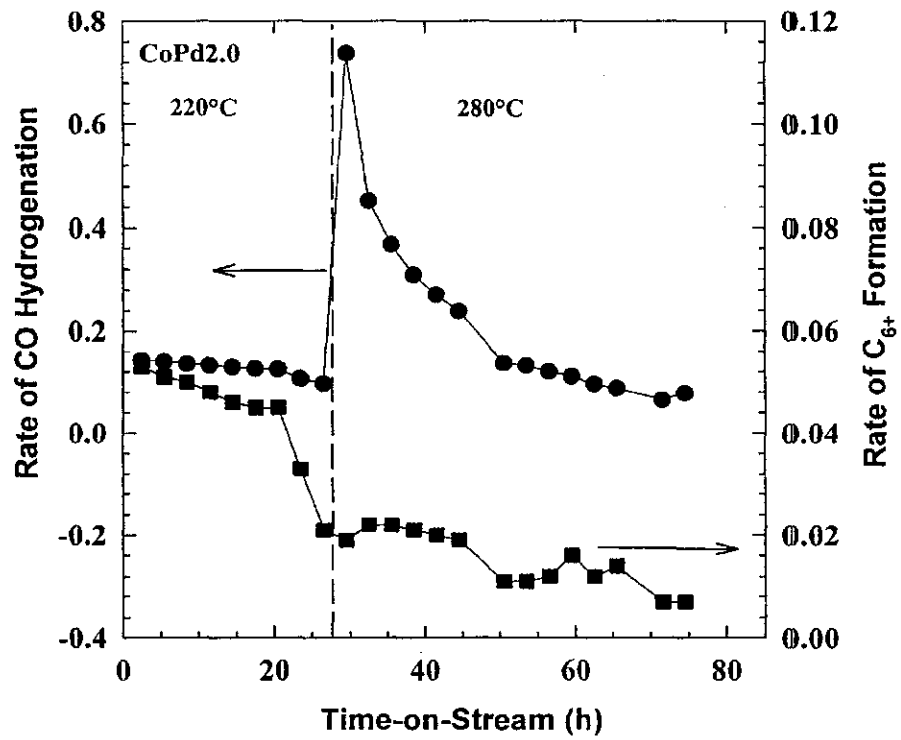


Figure 10 Effect of temperature and time-on-stream on rates of total hydrocabon and C6+ formation for Co.067

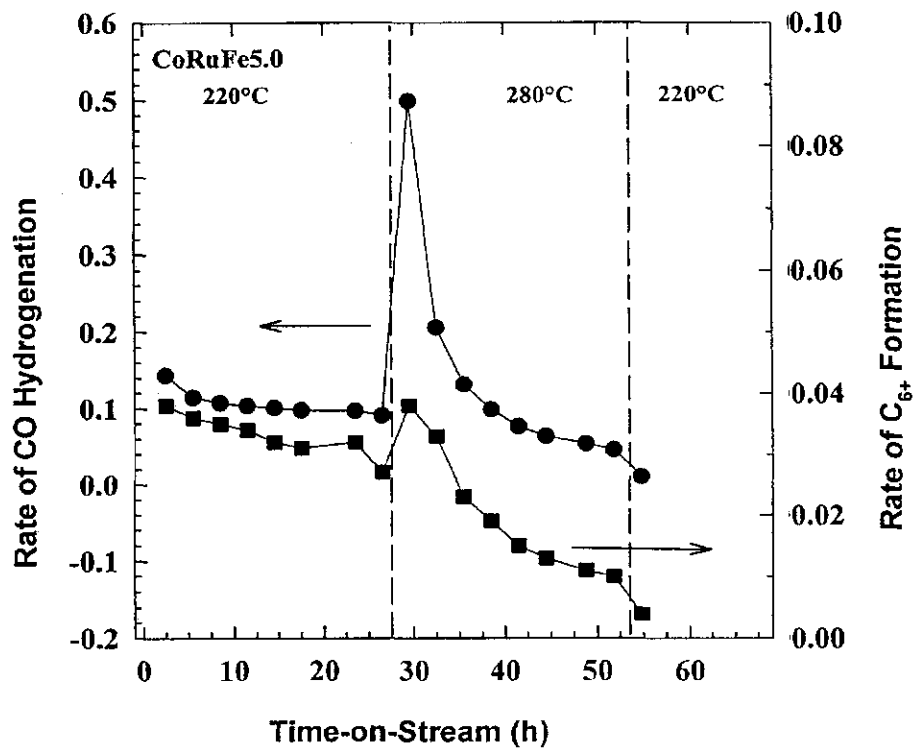


Figure 11. Effect of temperature and time-on-stream on rates of total hydrocarbon and C₆₊ formation for Co.066

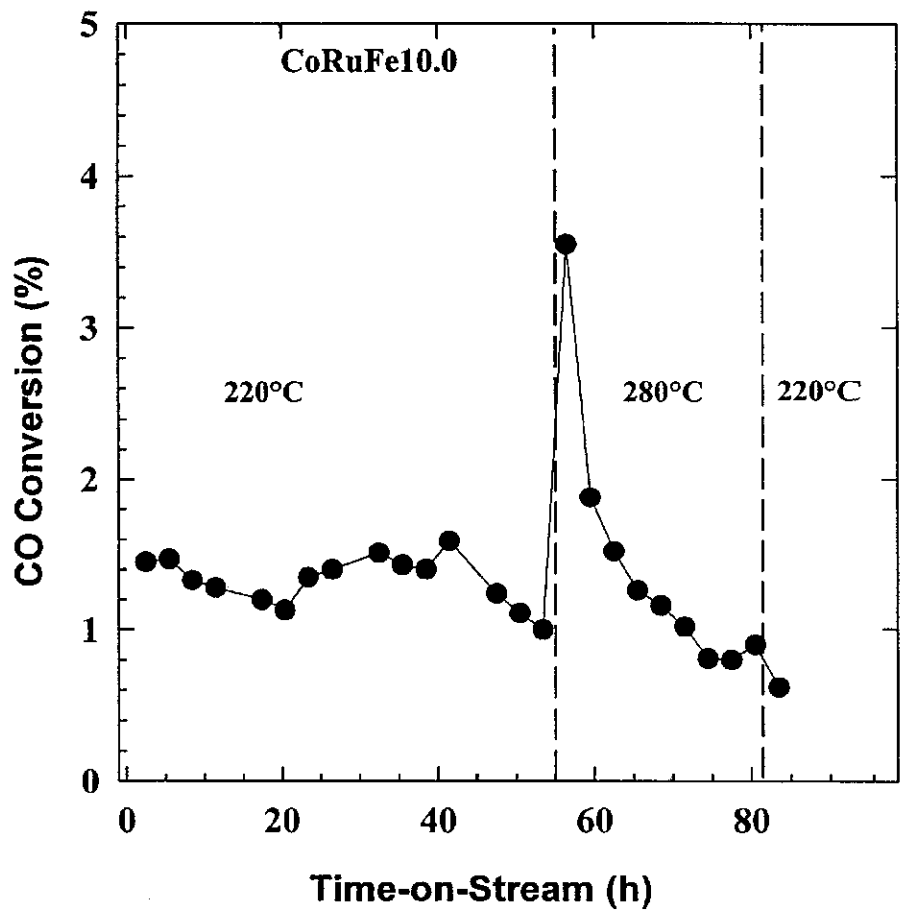


Figure 12. Effect of temperature and time-on-stream on CO conversion for CoW.10

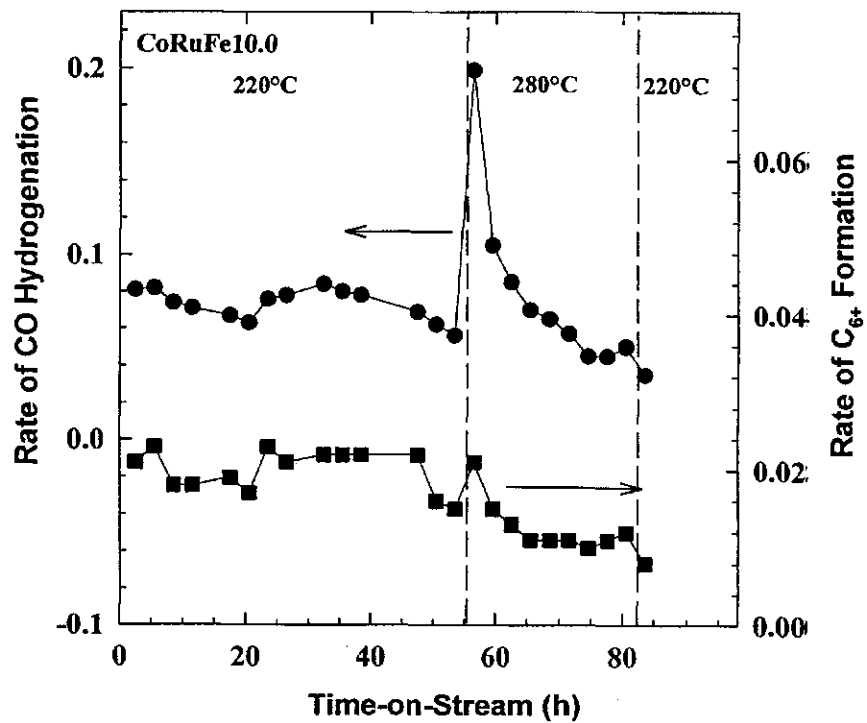
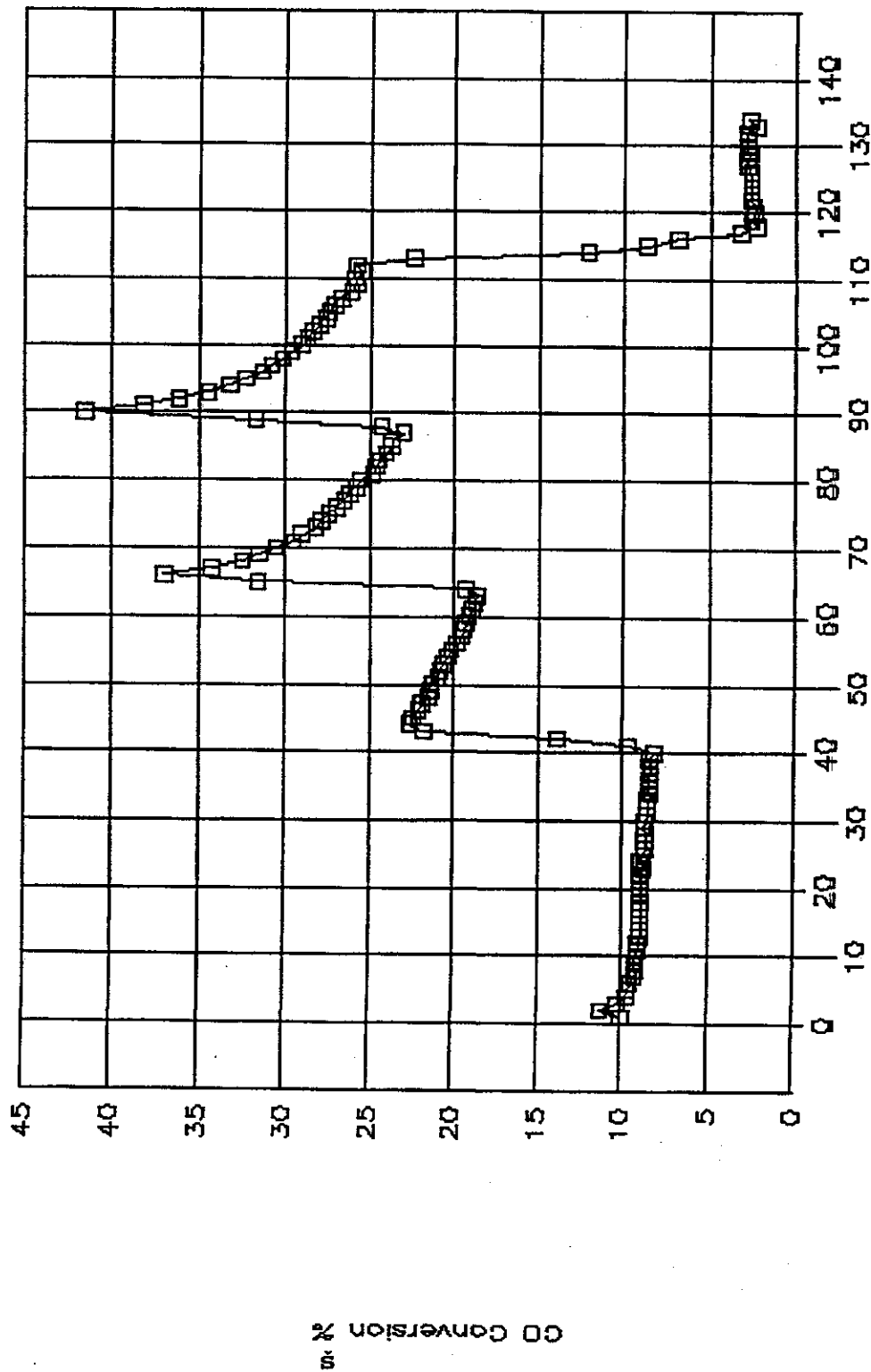


Figure 13. Effect of temperature and time-on-stream on rates of total hydrocarbon and C₆₊ formation for CoW.10

HIGH TEMPERATURE RUN SBCR M3 RUN48

Catalyst No. COW.13, 15.5 gm.



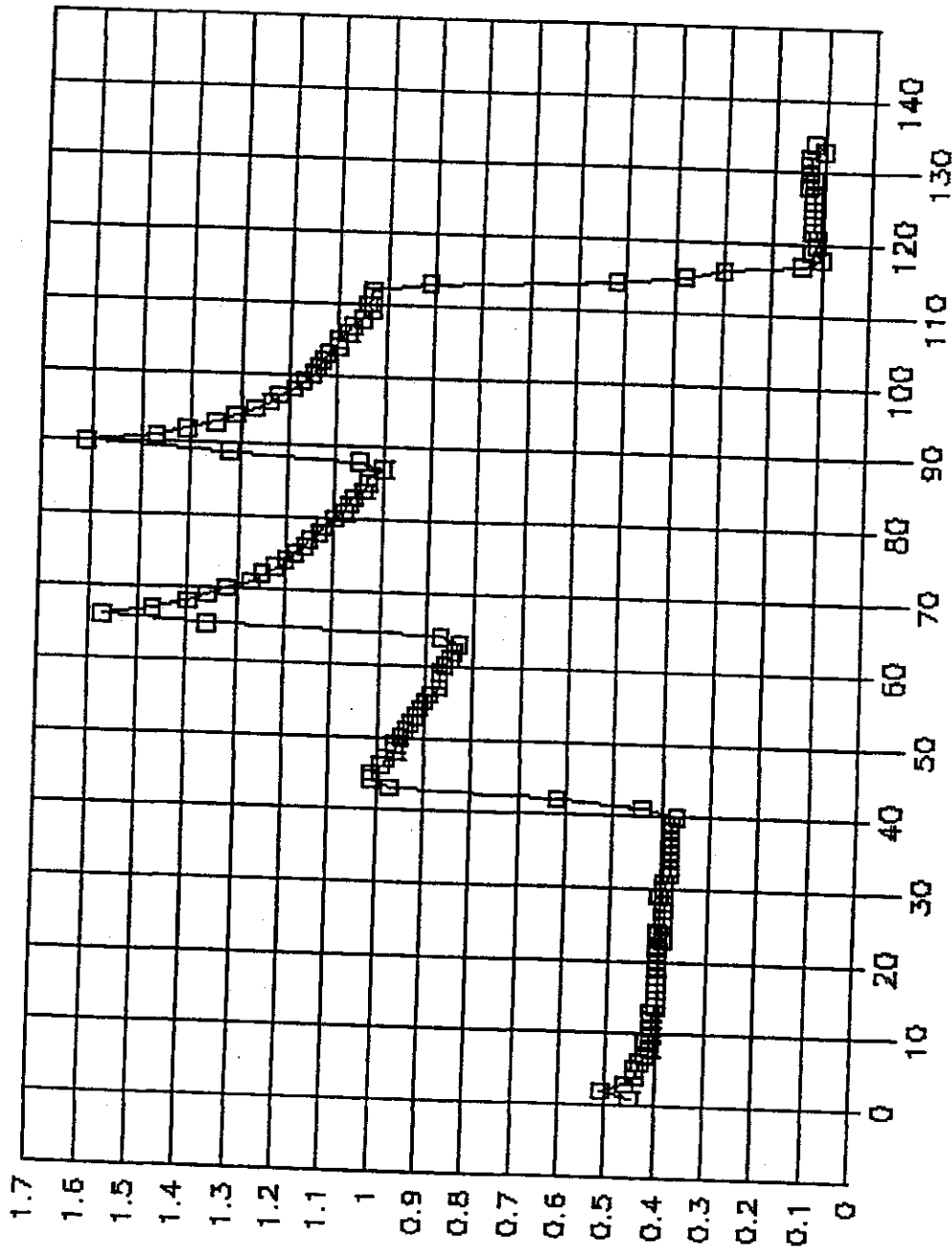
Time - Hours Into Run

□ 01.f117

CO Conversion %

HIGH TEMPERATURE RUN SBCR M3 RUN48

Catalyst No. COW.13, 15.5 gm.



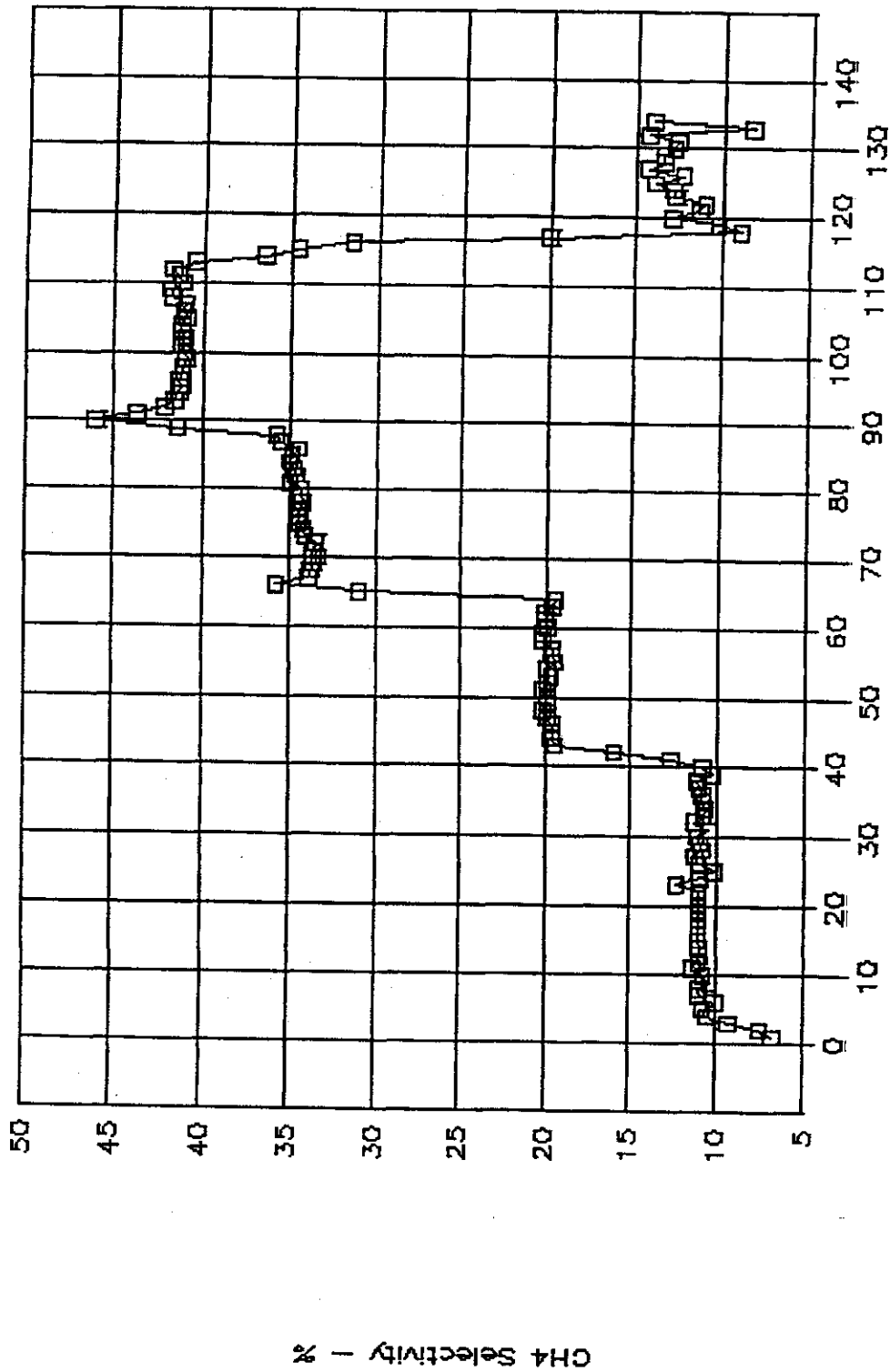
Time -- Hours into Run

□ 01.f117

Production Rate—gm C1+/gm cat/hr

HIGH TEMPERATURE RUN SBCR M3 RUN48

Catalyst No. COW.13, 15.5 gm.



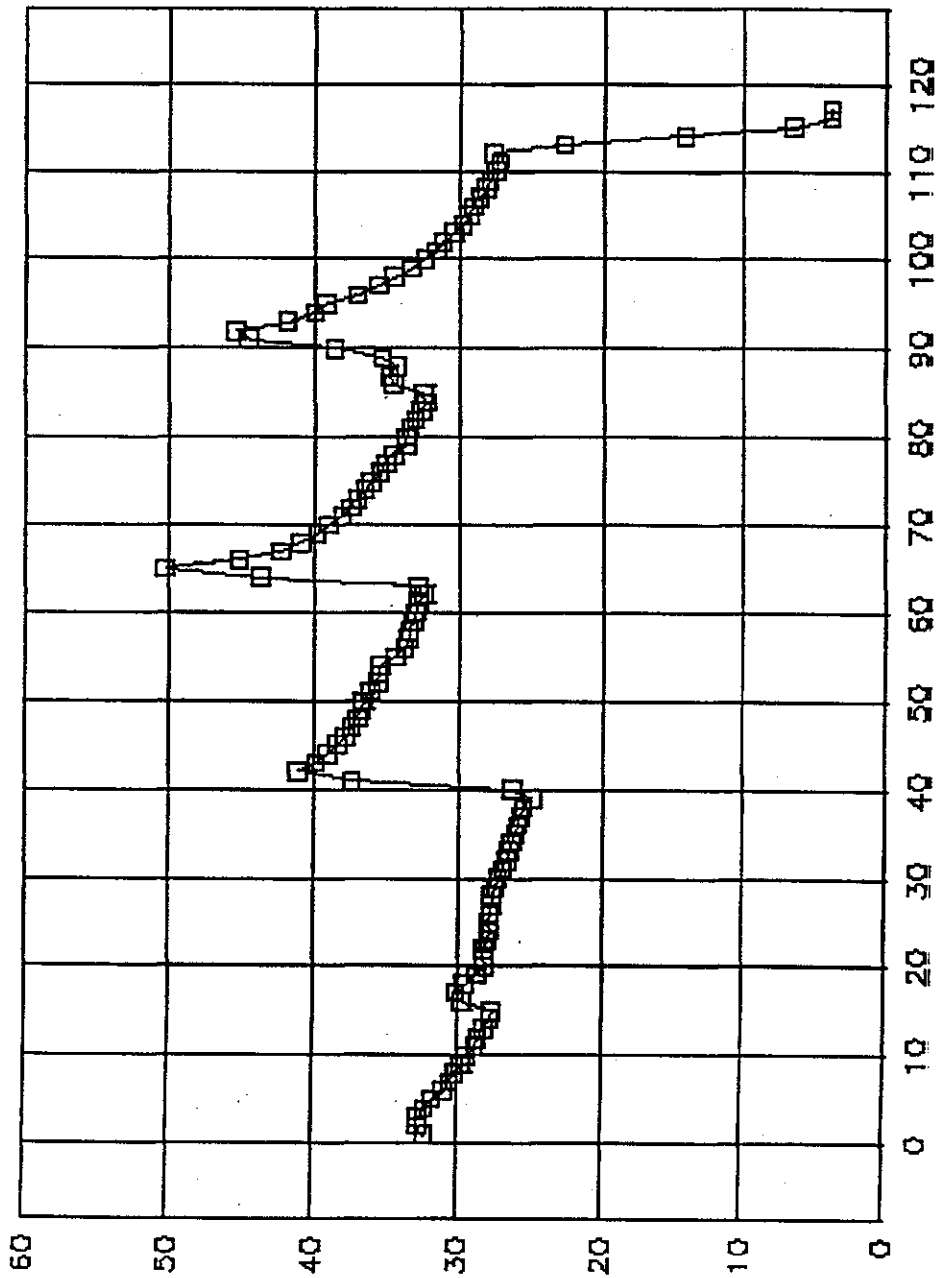
Time - Hours into Run

□ 01.f117

CH4 Selectivity - %

HIGH TEMPERATURE RUN SBCR M3 RUN49

Catalyst No. Co.068, 15.5 gm.



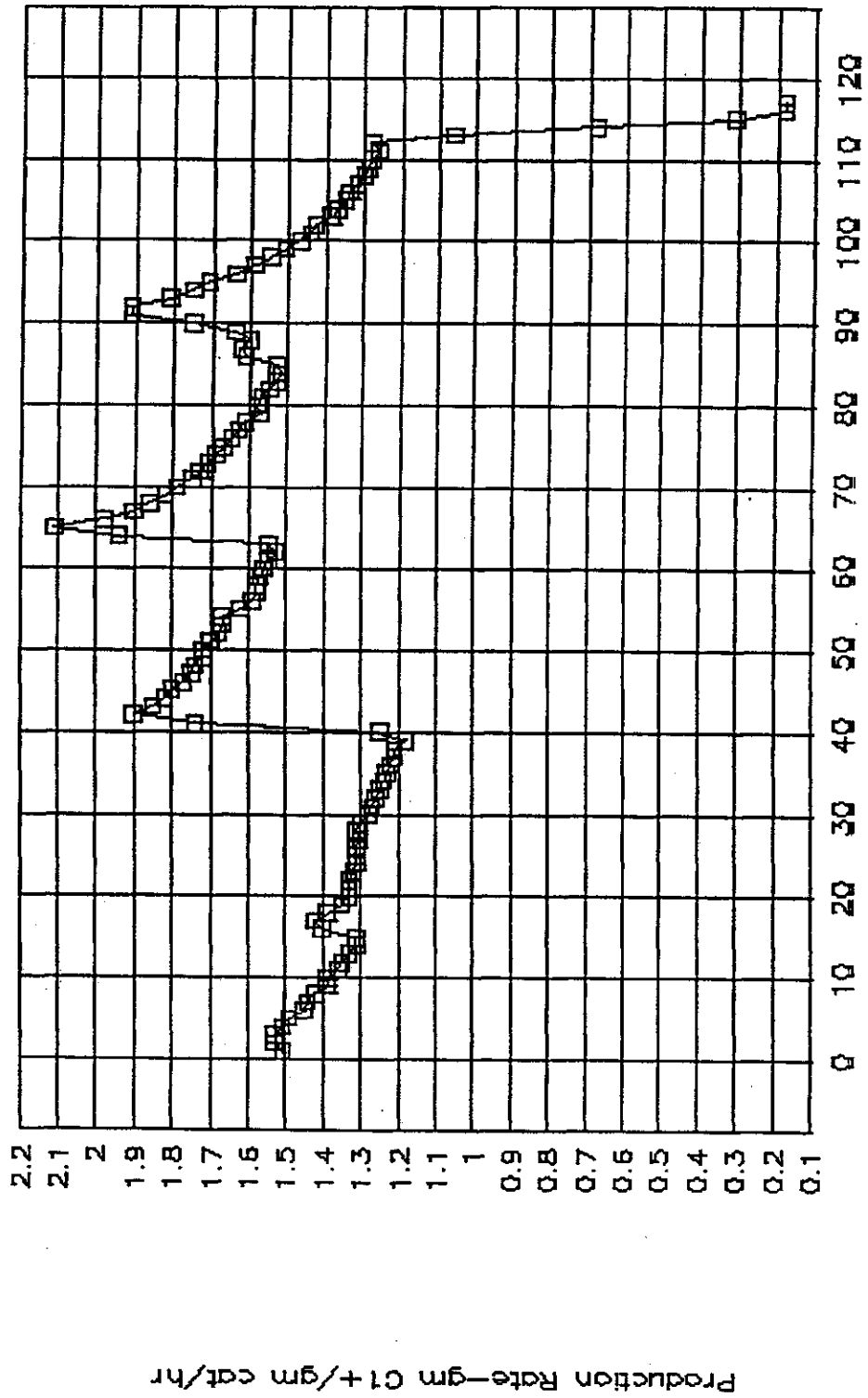
Time - Hours into Run

□ 01.f117

CO Conversion %

HIGH TEMPERATURE RUN SBCR M3 RUN49

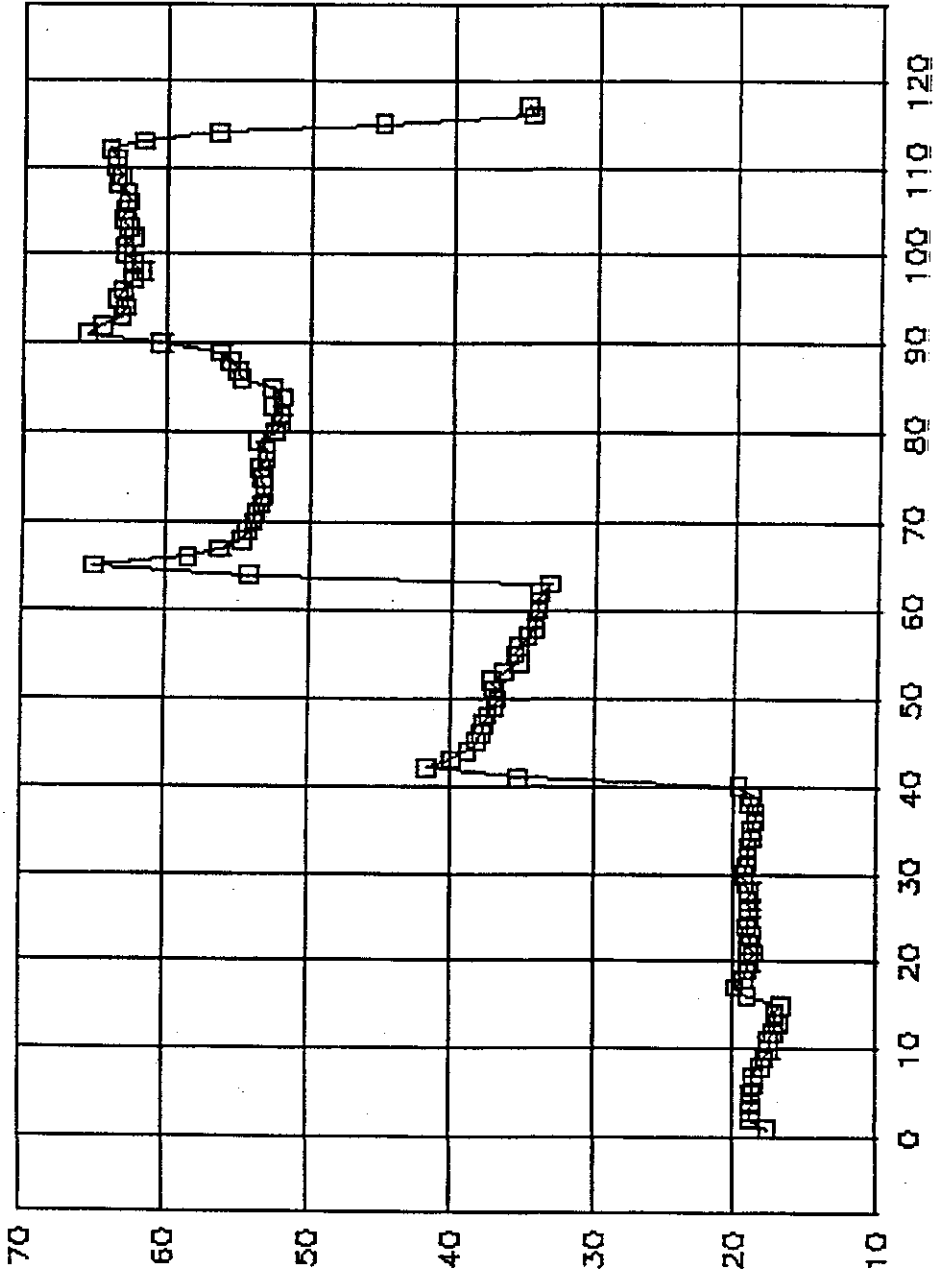
Catalyst No. Co.06B, 15.5 gm.



Time - Hours into Run
 □ 01.f117

HIGH TEMPERATURE RUN SBCR M3 RUN49

Catalyst No. Co.068, 15.5 gm.



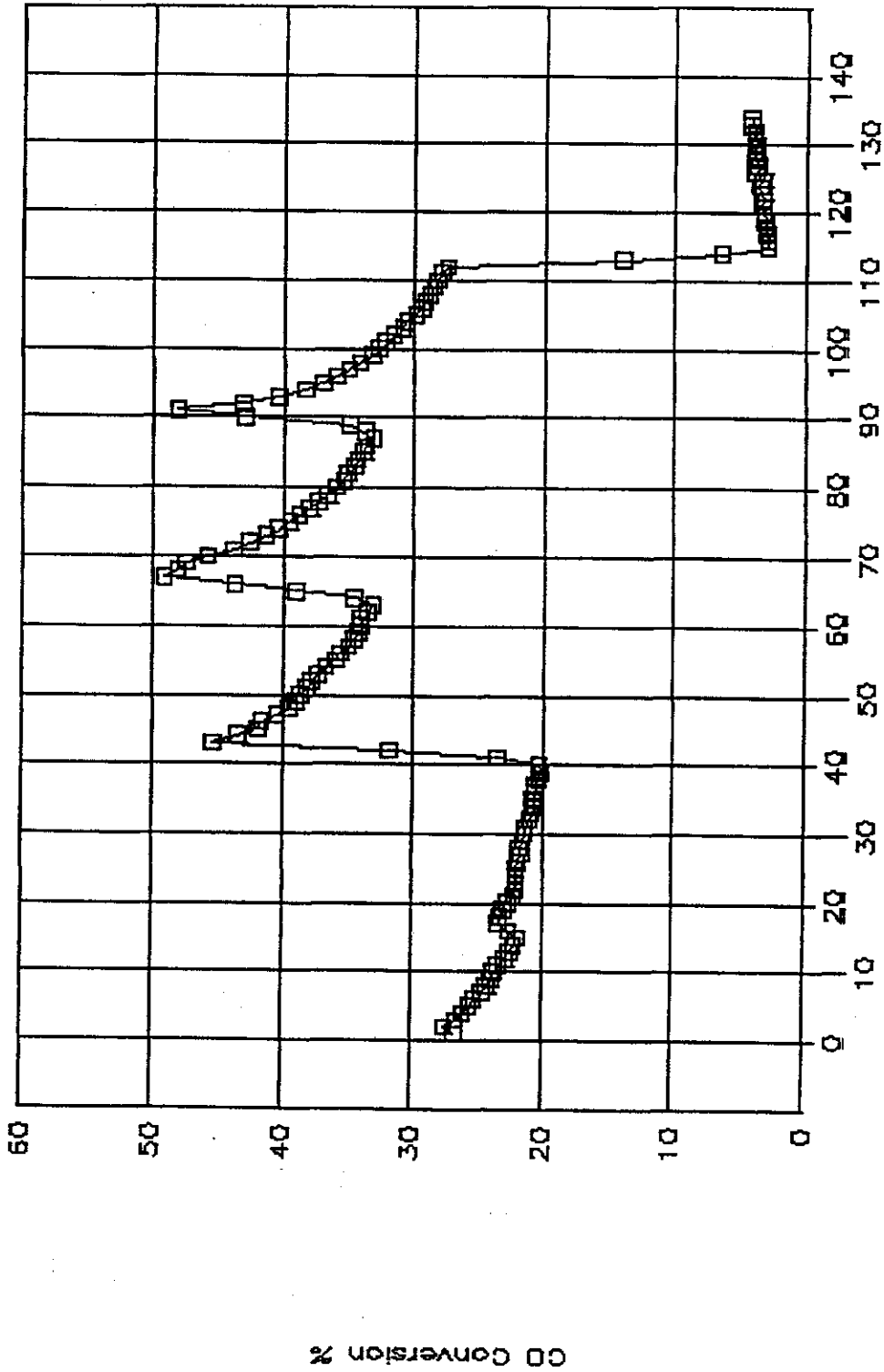
Time - Hours into Run

□ 01.f117

CH4 Selectivity - %

HIGH TEMPERATURE RUN SBCR M3 RUN 50

Catalyst No. Co.066, 15.5 gm.

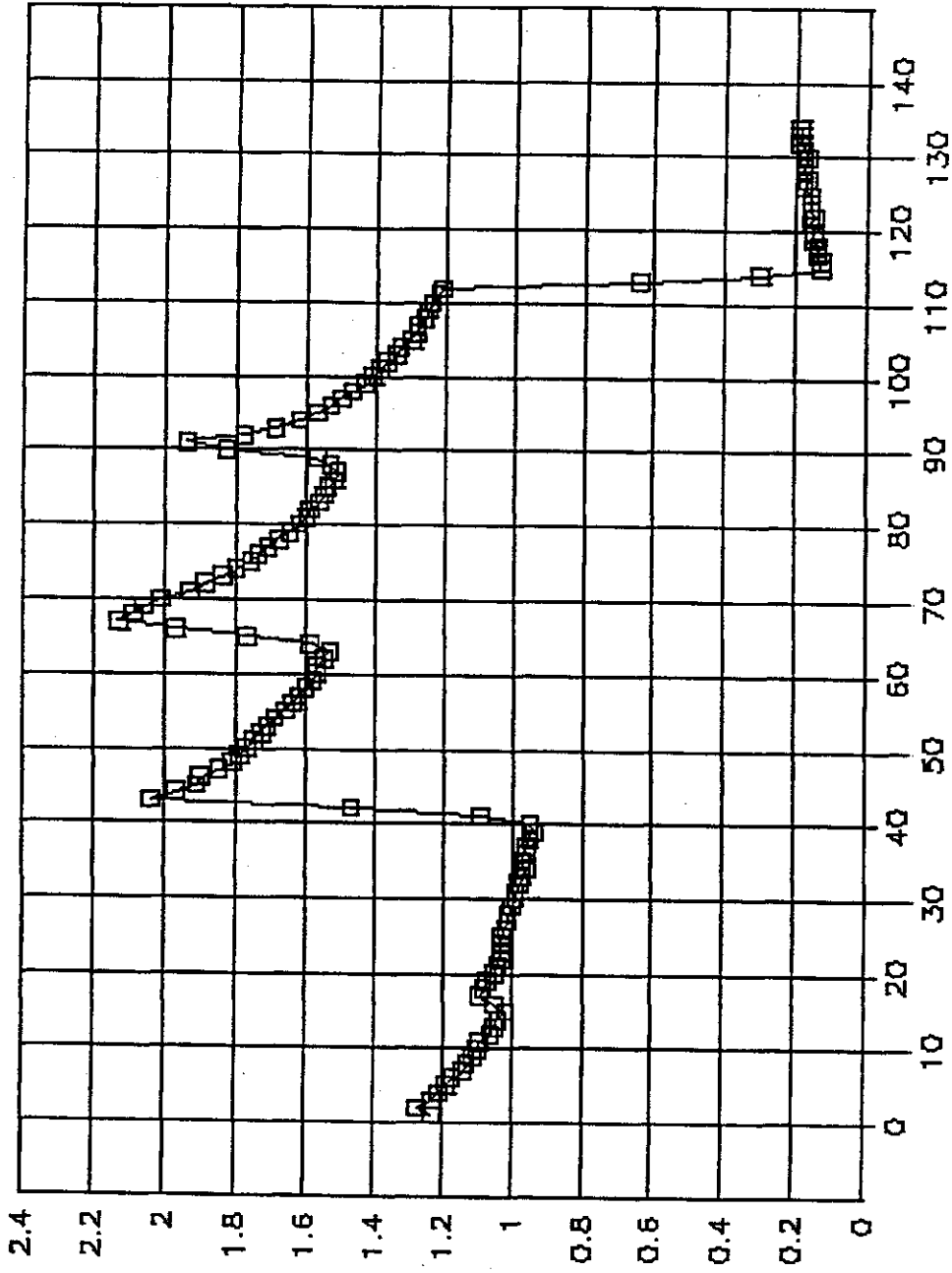


Time - Hours into Run

□ 01.1117

HIGH TEMPERATURE RUN SBCR M3 RUN 50

Catalyst No. Co.066, 15.5 gm.



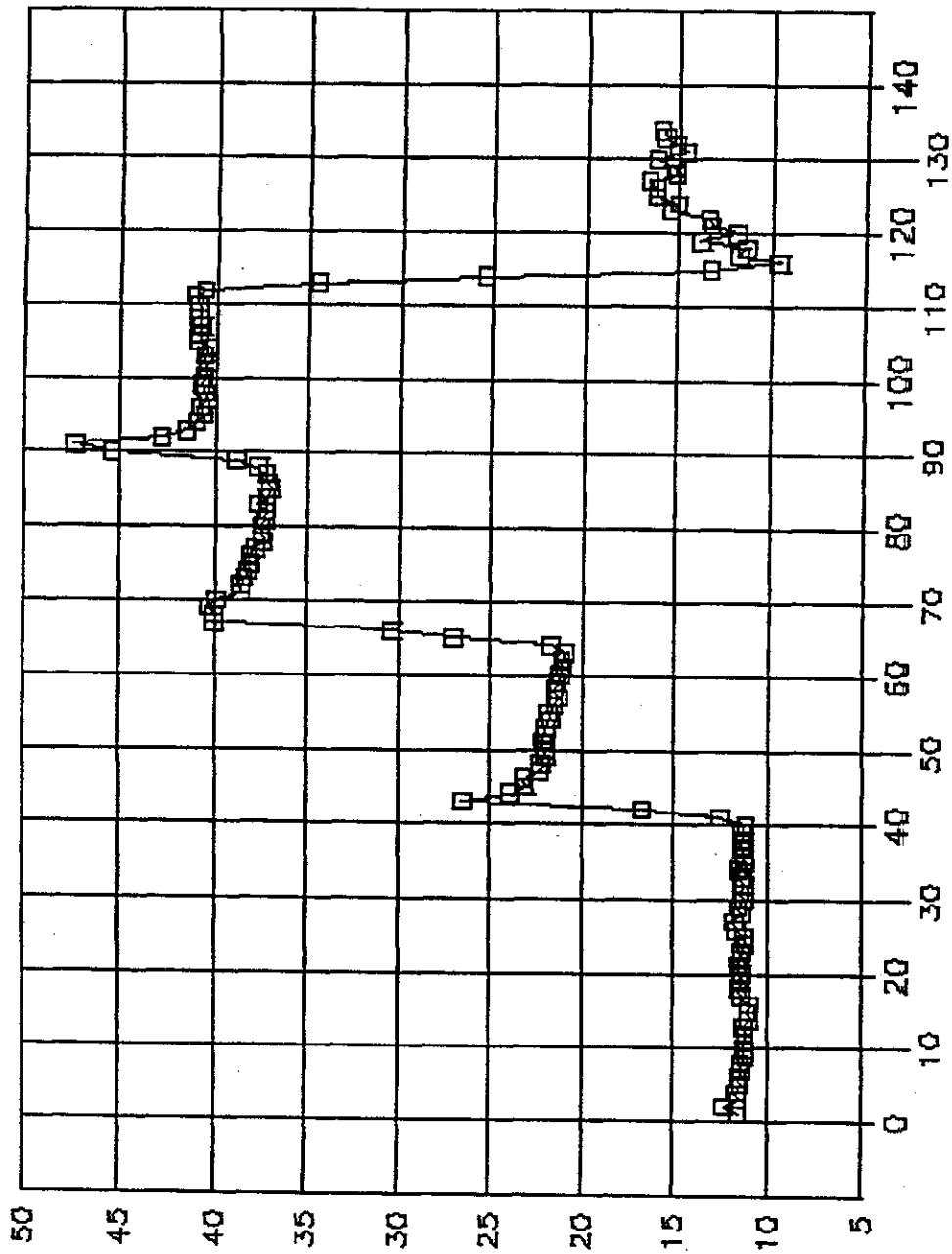
Time - Hours into Run

□ 01.f117

Production Rate-gm C1+/gm cat/hr

HIGH TEMPERATURE RUN SBCR M3 RUN 50

Catalyst No. Co.066, 15.5 gm.



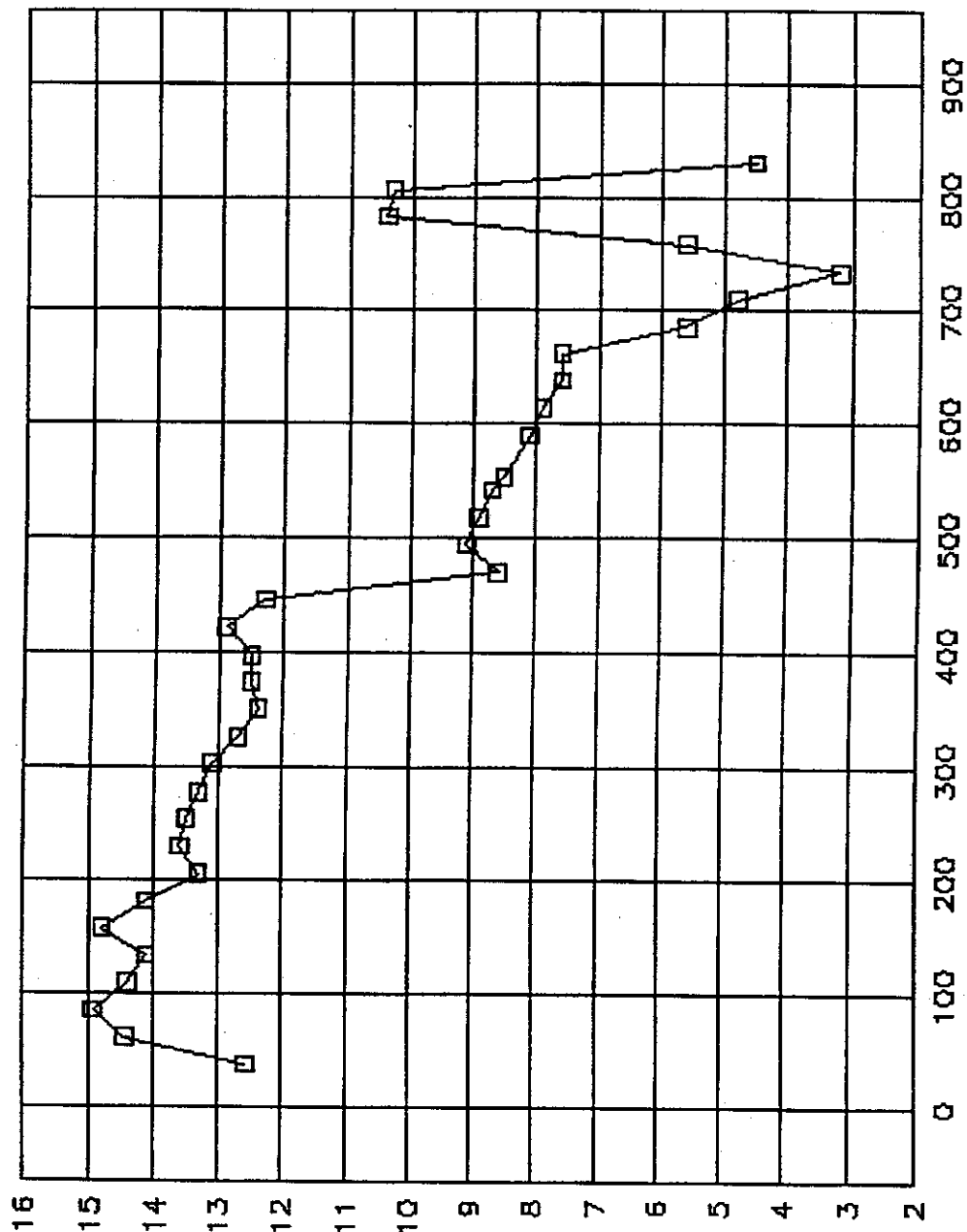
Time - Hours Into Run
□ 01.11.17

CH4 Selectivity - %

Figure 23

AGING RUN SBCR M4 RUN 37

Calsicat Catalyst No. CAL.13, 25.0 gm.



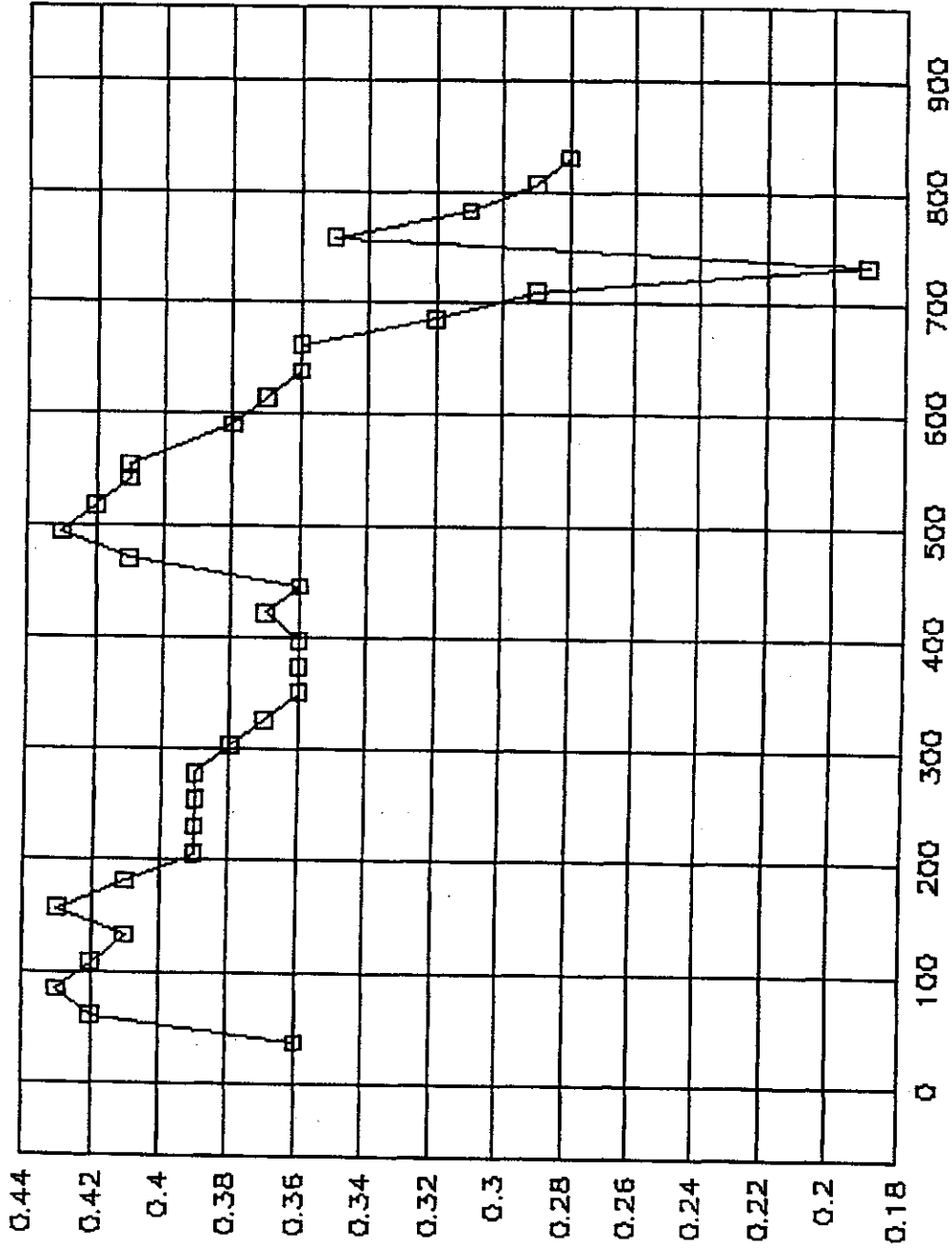
CO Conversion - %

Time - Hours into Run

Figure 24

AGING RUN SBCR M4 RUN 37

Calsicat Catalyst No. CAL.13, 25.0 gm.

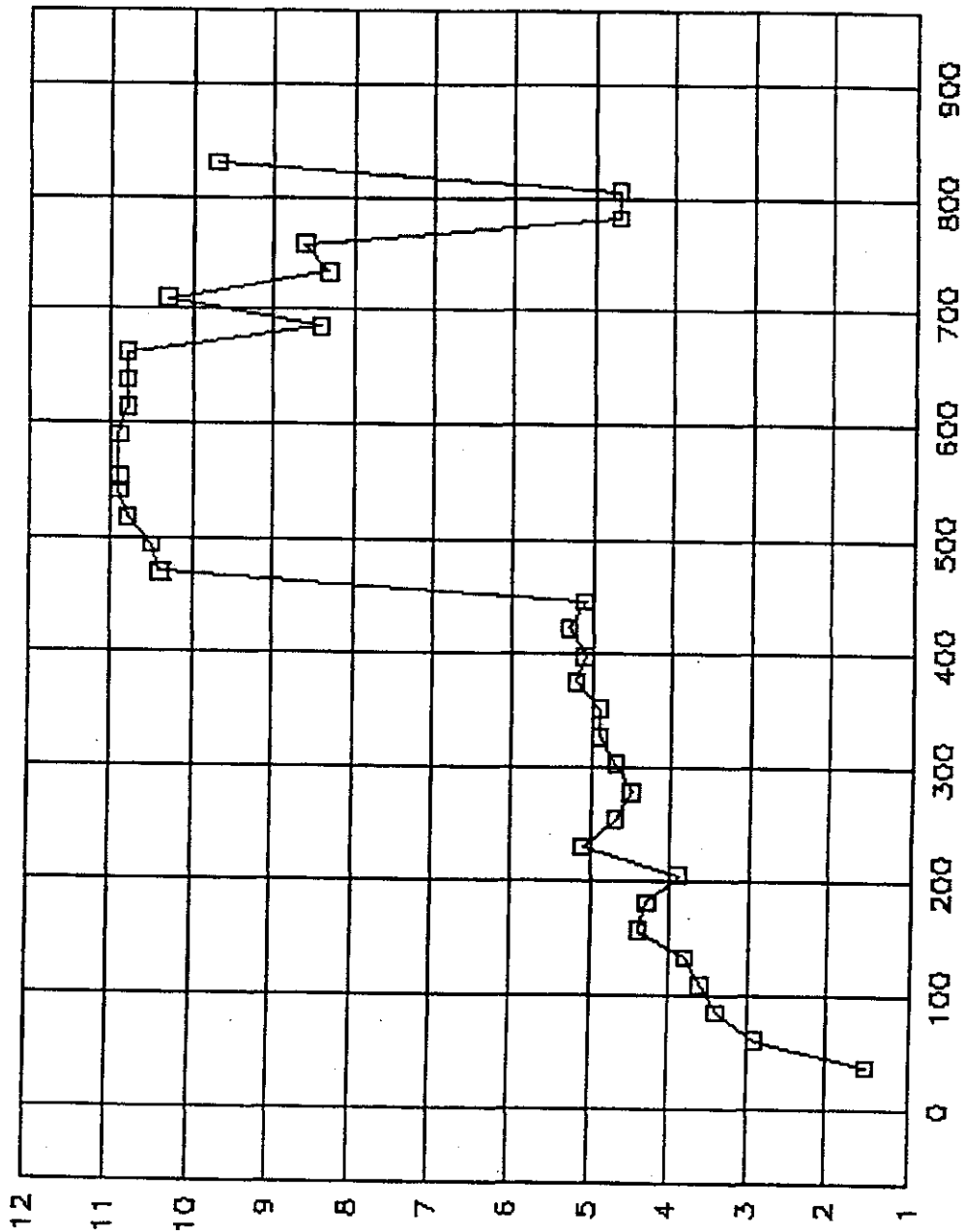


Time - Hours into Run

Figure 25

AGING RUN SBCR M4 RUN 37

Calisicat Catalyst No. CAL.13, 25.0 gm.



CH4 Selectivity - Mol%

Time - Hours into Run