



Amoco Production Company

ENGINEERING CHART

SHEET NO.

OF

FILE

APPN

DATE

BY

SUBJECT

Amoco
State IF No. 1

$$Q = F_b \sqrt{h_w \times P_m \times F_t \times F_g \times F_{pv}}$$

$$P_{CR} = 671$$

$$T_{CR} = 358$$

$$P_m = 570 + 13.2 = 583.2 \text{ psia}$$

$$T_m = 58 + 460 = 518^\circ R$$

$$P_R = .87$$

$$T_R = 1.45$$

$$Z = .903$$

2" x 1.375" Flange 40 schedule

$$F_{pv} = 1.052$$

$$F_b = 10.20$$

$$F_t = 1.002$$

$$F_g = 1.291$$

$$Q_1 = 10.20 \sqrt{1 \times 583.2 \times 1.002 \times 1.291 \times 1.052}$$

$$Q_1 = 335 \text{ MCFD}$$

RATE #2

$$P_m = 580 + 13.2 = 593.2$$

$$P_R = 0.88$$

$$T_m = 58 + 460 = 518$$

$$T_R = 1.45$$

$$Z = .901$$

$$F_{pv} = 1.054$$

$$F_b = 10.20$$

$$F_t = 1.002$$

$$F_g = 1.291$$

$$Q_2 = 10.20 \sqrt{1 \times 593.2 \times 1.002 \times 1.291 \times 1.052}$$

$$Q_2 = 340 \text{ MCFD}$$

NOTE:

Could not obtain additional rates as
FTP = pipeline pressure after second point.