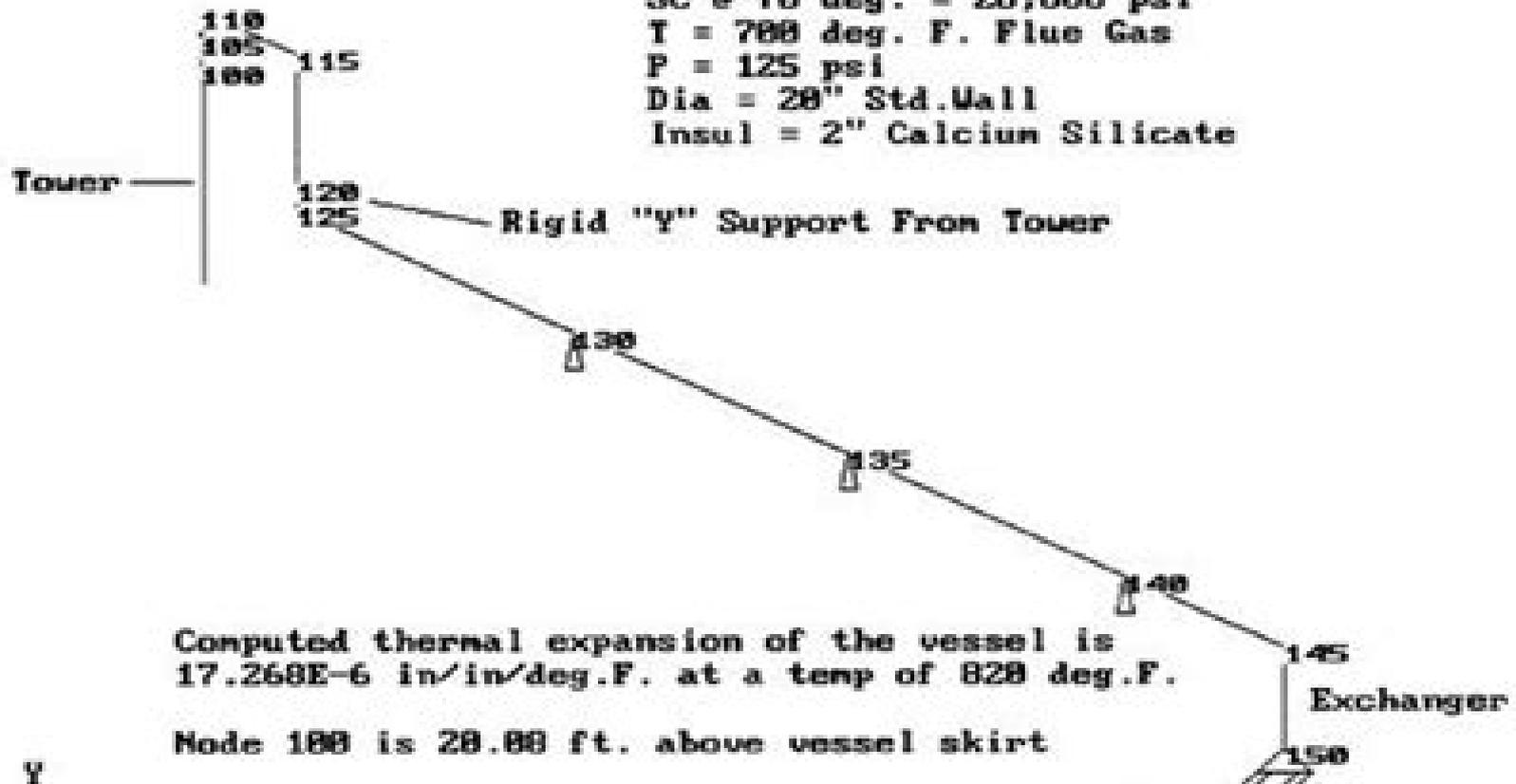


SSEM1

Material A186 Gr.B
 SH @ 700 deg. = 16,500 psi
 SC @ 70 deg. = 20,000 psi
 T = 700 deg. F. Flue Gas
 P = 125 psi
 Dia = 28" Std.Wall
 Insul = 2" Calcium Silicate



Computed thermal expansion of the vessel is
 17.268E-6 in/in/deg.F. at a temp of 820 deg.F.

Node 100 is 20.00 ft. above vessel skirt

$$\text{Disp. @ 100} = (820-70)\text{deg.F.}(17.268\text{E-}6)\text{in/in/deg}^{\circ}\text{F} \\
 (20.00)(12)\text{ft.in/ft.} = 3.121 \text{ in.}$$

$$\text{Disp. @ 120} = (820-70)(17.268\text{E-}6)(20.00+6.5-15)(12) \\
 = 1.8 \text{ in.}$$

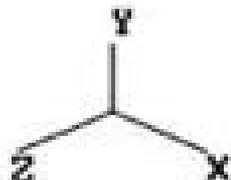


Figure 1-1

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