

Eschbach's Boilers No 1016

$$\text{Rivets: } - \frac{1.35 \times 5 \times 1.75 \times 85}{9.375 \times 1.156} = 92.4 \quad \text{Plate } \frac{8.06}{9.375} = 86$$

$$\text{Shell } \frac{2.2 \times 16.5 \times 86 \times 29.5}{180 \times 28} = 182$$

$$\text{Furnaces } - \frac{2.59 \times 4.25}{49} = 186$$

$$\text{Cl. Bol } 50 \times \frac{(300 + 8125 - 24)}{50} = \frac{50 \times 220}{20} = 220$$

$$\text{Sides } \frac{135 \times 16.9}{\frac{1}{2}(9.375^2 + 10.375^2)} = 217$$

Sides top

$$\frac{135 \times 14.4}{105} = 185$$

$$\text{Backs } \frac{135 \times 132}{\frac{1}{2}(10.375^2 + 9.375^2)} = 187$$

$$\text{Screw stays } - \frac{9000 + 2.03}{10 \times 9.375} = 192$$

$$\text{Top ends } - \frac{175 \times 506}{\frac{1}{2}(23^2 + 21^2)} = 182$$

$$\text{Main stays } \frac{8.29 \times 10400}{21 \frac{1}{2} \times 21} = 190$$

$$\frac{6.49 \times 10400}{18 \frac{3}{4} \times 18 \frac{1}{2}} = 194$$

$$\text{Back lot } \frac{135 \times 225}{\frac{1}{2}(15^2 + 10^2)} = 187$$

$$\text{WW spaces } \frac{150 \times 225}{182} = 185$$

$$\text{Girders } \frac{10660 \times 1.75 \times 85.5 \times 29.5}{25.75 \times 9.875 \times 36 \times 28} = 183$$

Plate % of shell at manhole compensating plate - 78

W81-0172