

Assume Wheat @ 48 PCF

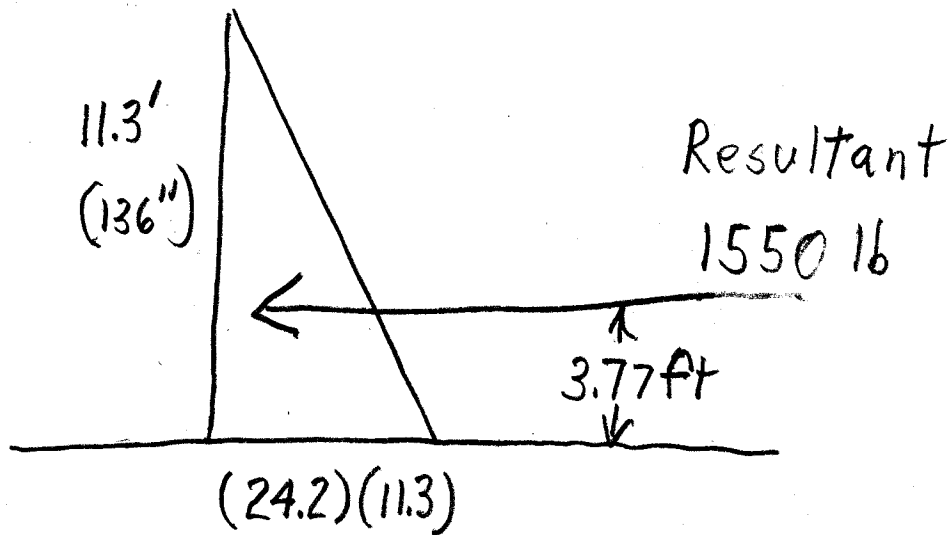
$$\phi_{\text{Wheat}} = 30^\circ$$

Equivalent Horizontal Liquid Pressure (p_e')

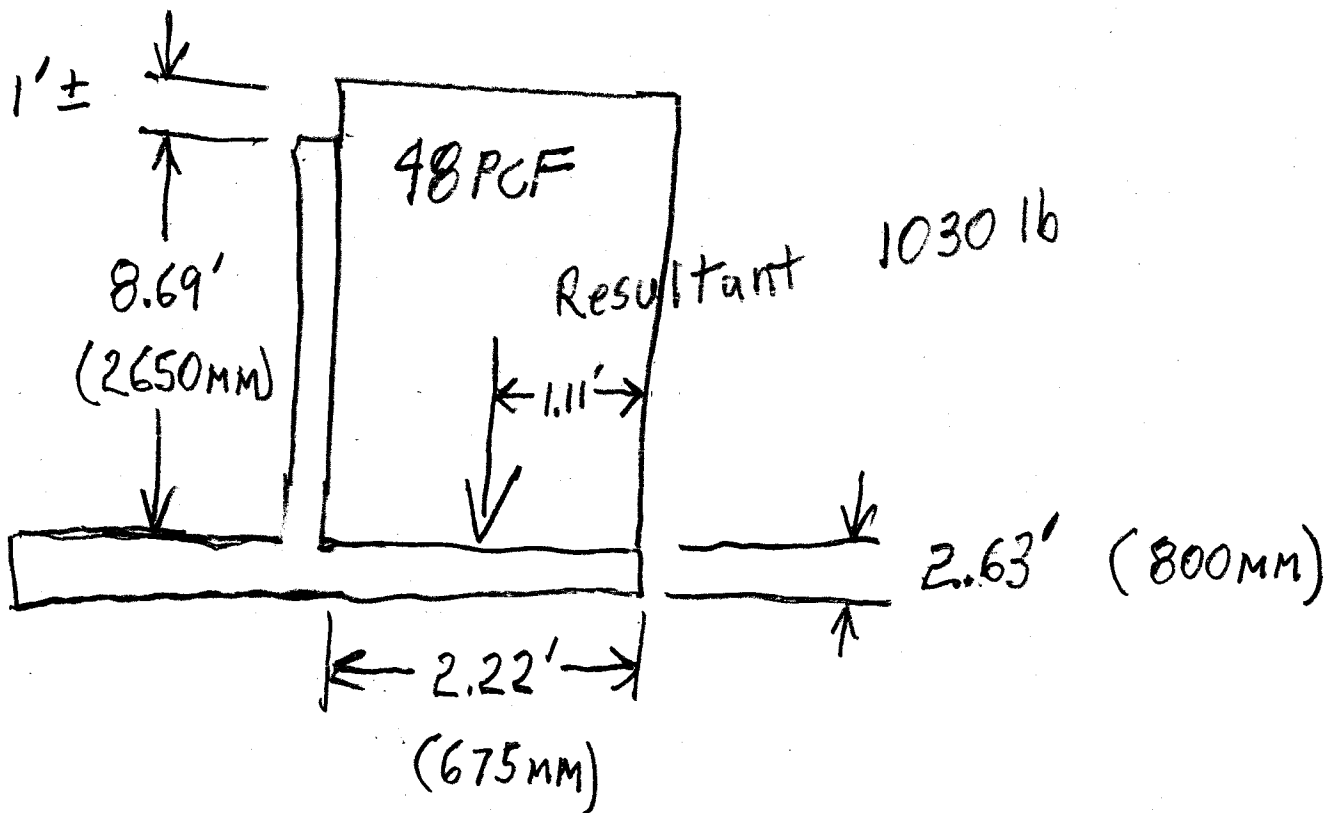
$$p_e' = \frac{48 \cos^2 30}{\left[1 + \sqrt{\frac{\sin 30 \sin (30-25)}{\cos 25}}\right]^2}$$

$$p_e' = \frac{36.0}{\left[1 + \sqrt{0.0481}\right]^2}$$

$$p_e' = 24.2 \text{ PCF}$$



Horizontal Pressure per One Ft. Length



Vertical Pressure per One Ft Length