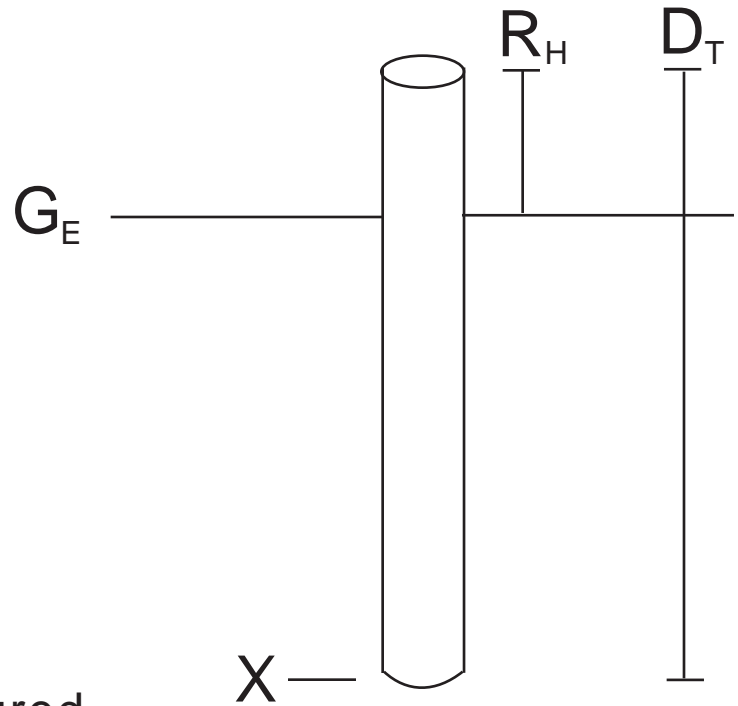


Well Calculations



D_T = Total depth of the well

R_H = Riser height

G_E = Ground elevation

X = Well bottom elevation

Ref_{line} = Reference line measured

W_{line} = Water line measured

D_{water} = Depth from riser top down to the water

W_E = Water elevation with respect to ground elevation

W_{height} = Height of water in well

$$D_{water} = (Ref_{line} - W_{line})$$

$$W_{height} = (D_T - D_{water})$$

$$X = [G_E - (D_T - R_H)]$$

$$W_E = [G_E - (D_T - R_H)] + (D_T - D_{water})$$

or

$$W_E = X + (D_T - D_{water})$$

or

$$W_E = X + W_{height}$$

if: $D_{water} > R_H$ then water is underground

$D_{water} < R_H$ then water is aboveground in the riser