

$$1\text{bar} = 10^5\text{Pa}$$

$$P = \rho * g * h (\text{Pa}) = 10^{-5} * \rho * g * h (\text{bar})$$

$$h = 10^5 \frac{P}{\rho * g}$$

$$h(5\text{bar}) = 10^5 \frac{5}{1000 * 9.8} = 51.02 \text{ m}$$