A conical water tank has a valve at the bottom and a length of pipe attached below the valve. (See figure below). The cone is 5 feet tall, 4 feet in diameter at the top, and completely filled with water ($\delta = 62.5 \text{ lbs/ft}^3$). The pipe is 3.5 feet long. When the valve is opened all the water drains down the pipe. Assume that ground level is at the bottom of the pipe and compute the total potential energy released.