

Homework #9

A pipe with the ID of 2" is used as a flowline from a well to a tank battery that is one mile from the well. The well produces 250 bpd of oil with a WOR of .4 and a GLR of 1500 cf/bbl. The output at the battery must be 75 psi, what is the required input pressure?

The oil is a 40 API, the gas gravity is .65 and the water gravity is 1.05. There is no elevation change from the well to the battery.