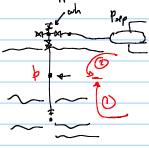
Day 2 20181010

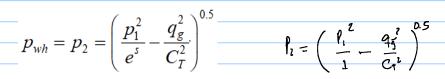
- · How to cente and run and dobug routnes in encel VBA.
- · what happens if are more the equilibrium point



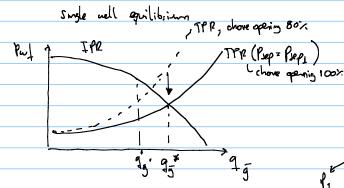
flown furnation & lower toling I down upper tubing +

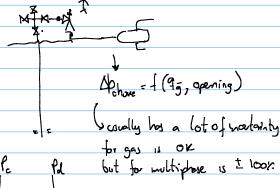
if equilibrium point is at wellhood then the available piesure owne it is called WPR wellhood performance relationship

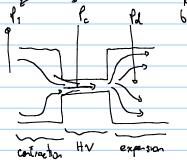
the tibing quation on be used for flowlines. for horizontal flowline 9= CFL (P2-P2)

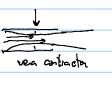


L'Hapital theorem $\lim_{x \to c} \frac{f(x)}{g(x)} = \lim_{x \to c} \frac{f'(x)}{g'(x)}.$ Q: $\frac{S}{e^S - 1}$ $\frac{1}{S \to 0}$ $\frac{1}{e^S}$ = 1









t downsteam

for liquid
$$q_{\overline{o}} = \frac{A_2 \cdot C_d}{B_{o2}} \cdot \sqrt{\frac{2 \cdot (p_2 - p_1)}{\rho (1 - \beta^4)}}$$

 $q_{\overline{g}} = \frac{p_1 \cdot A_2 \cdot C_d \cdot T_{sc}}{p_1} \cdot \sqrt{2 \cdot \frac{R}{Z_1 \cdot T_1 \cdot M} \cdot \frac{k}{k-1} \cdot \left(y^{\frac{2}{k}} - y^{\frac{k+1}{k}}\right)}$ for dry gas

