

King Saud University

Petroleum and Natural Gas Engineering

PGE 480: **Production Engineering Laboratory**

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### Vapor pressure experiment report instructions

- 1- Go back to the file titled “Vapor pressure.pdf” published in the course folder and read more about vapor pressure and CCE.
- 2- Plot  $\ln(P_v)$  vs  $1/T$  (T: in °Kelvin) for fresh water.
- 3- Check the accuracy of the results (based on the actual water properties;  $L_v$  and boiling point and based on the CCE). Note: You have to use the right R value based on the units used.
- 4- Make corrections if needed.
- 5- Plot  $\ln(P_v)$  vs  $1/T$  (T: in °Kelvin) for crude oil.
- 6- Check the accuracy of the results (Straight line)
- 7- Make corrections if needed according to your observation made for fresh water results.
- 8- Discuss all the results you obtained.