

Interactive comment on “Bilinear pressure diffusion and termination of bilinear flow in a vertically fractured well injecting at constant pressure” by Patricio-Ignacio Pérez D. et al.

Shayan Tavassoli

shayan.tavassoli@beg.utexas.edu

Received and published: 10 April 2020

This paper investigates the flow in a fracture from an injection well into a confined reservoir. The paper seeks for a numerical solution to be compared with an analytical solution already existed. To me the paper does not have a novelty and as written does not add additional value.

Here are my comments: 1. The problem statement is very simplified and the analytical and numerical solutions already exist. 2. Use of a reservoir simulator is recommended than COMSOL. Please check the literature on numerical solutions of reservoir simulations. 3. The effect of boundary condition can be investigated by changing the bound-

C1

ary condition from close to open and even partially open boundary condition instead of changing the size of the domain.

Interactive comment on Solid Earth Discuss., <https://doi.org/10.5194/se-2019-170>, 2020.

C2