Hydraulic Fracture Propagation in a Poro-Elastic Medium with Time-Dependent Injection Schedule Using the Time-Stepped Linear Superposition Method (TLSM)
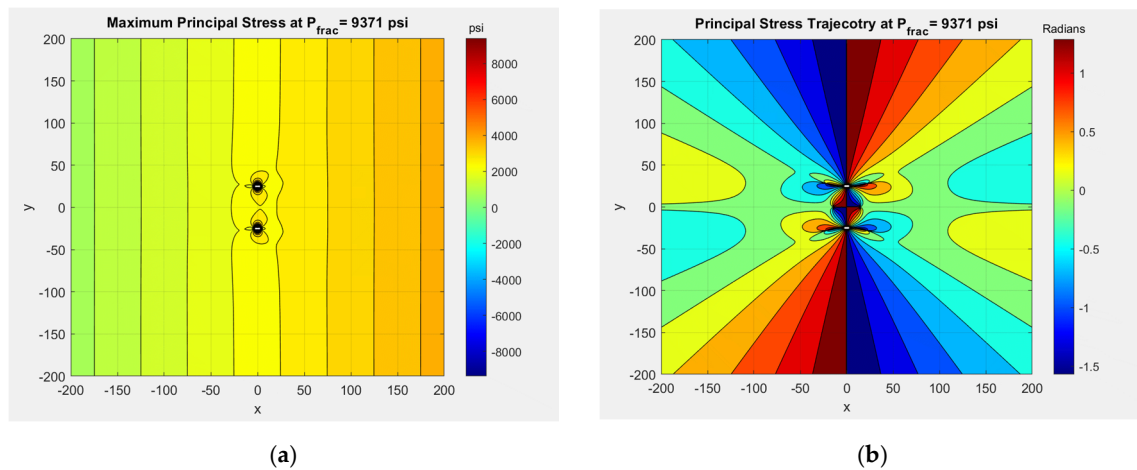
Tri Pham and Ruud Weijermars

(a)   (b)

Figure S1. Figure S1. (**a**) Dynamic TLSM result for two hydraulic fractures in a region with pore pressure gradient showing maximum principal stress, as shown in Figure 11a–14a; (**b**) Dynamic TLSM result for two hydraulic fractures in a region with pore pressure gradient showing principal stress isoclines, as shown in Figure 11b–14b.
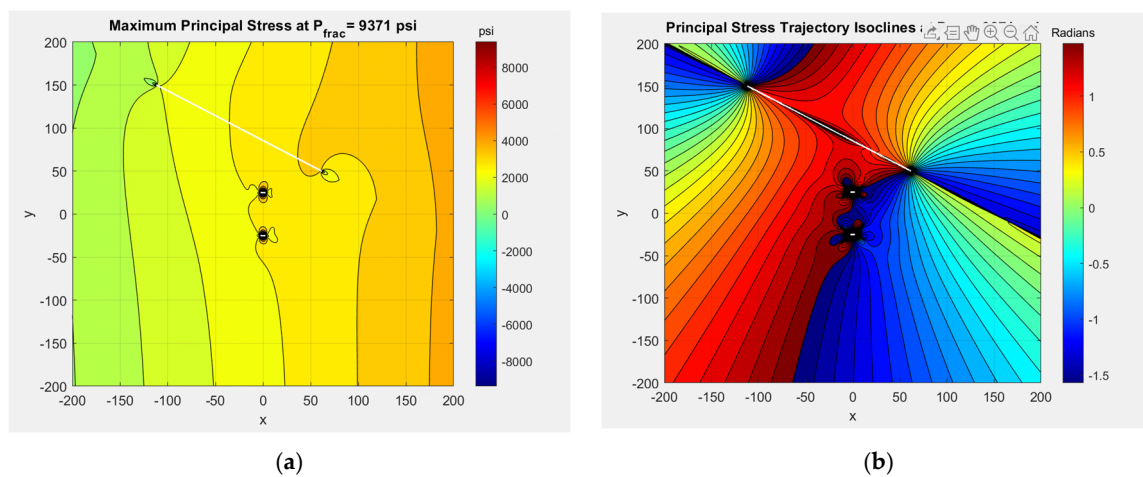

(a)   (b)

Figure S2. (**a**) Dynamic TLSM result for two hydraulic fractures in proximity to a pressurized natural fracture showing maximum principal stress, as shown in Figure 15a–16a; (**b**) Dynamic TLSM result for two hydraulic fractures in proximity to a pressurized natural fracture showing principal stress trajectory isoclines, as shown in Figure 15b–16b.