

Publication List

Journal articles

1. Bunger, Andrew; Jeffrey, Rob; Zhang, Xi. Constraints on Simultaneous Growth of Hydraulic Fractures from Multiple Perforation Clusters in Horizontal Wells. *SPE Journal*. 2014; 19(4):608-620.
2. Wu, Bisheng; Zhang, Xi; Jeffrey, Rob. A model for downhole fluid and rock temperature prediction during circulation. *Geothermics*. 2014; 50:202–212.
3. Zhang, Xi; Bunger, Andrew; Jeffrey, Rob. Mechanics of two interacting magma-driven fractures: A numerical study. *Journal of Geophysical Research-Solid Earth*. 2014; 119(11):1-17.
4. Zhang, Xi; Jeffrey, Rob. Role of overpressurized fluid and fluid-driven fractures in forming fracture networks. *Journal of Geochemical Exploration*. 2014; 144(Part A):194-207.
5. Bunger, Andrew; Zhang, Xi; Jeffrey, Rob. Parameters affecting the interaction among closely spaced hydraulic fractures. *SPE Journal*. 2012; 17(1):292-306.
6. Wu, Bisheng; Zhang, Xi; Jeffrey, Rob; Wu, Bailin. A semi-analytic solution of a wellbore in a non-isothermal low-permeability porous medium under non-hydrostatic stresses. *International Journal of Solids and Structures*. 2012; 49(13):1472-1484.
7. Zhang, Xi; Jeffrey, Rob. Fluid-driven multiple fracture growth from a permeable bedding plane intersected by an ascending hydraulic fracture. *Journal of Geophysical Research-Solid Earth*. 2012; 117(B12):B12402.
8. Wu, Bailin; Wu, Bisheng; Zhang, Xi; Jeffrey, Rob. Wellbore Stability Analyses for HPHT Wells Using a Fully Coupled Thermo-Poroelastic Model. *SPE News*. 2011; (146):p. 15.
9. Zhang, Xi; Jeffrey, Rob; Bunger, Andrew; Thiercelin, Marc. Initiation and growth of a hydraulic fracture from a circular wellbore. *International Journal of Rock Mechanics and Mining Sciences*. 2011; 48(6):984-995.
10. Chen, Z. ; Jeffrey, R. Application of the empirical mode decomposition to field tiltmeter data for hydraulic fracture mapping. *Advances in Adaptive Data Analysis (AADA)*. 2009; 1(3):407-424.
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15. Zhang, Xi.; Jeffrey, R.G.; Thiercelin, M. Deflection and propagation of fluid-driven fractures at frictional bedding interfaces: A numerical investigation. *Journal of Structural Geology*. 2007; 29(3):396-410.

16. Zhang, X.; Jeffrey, R. G. Numerical study on two-dimensional crack problems in three-layered isotropic elastic materials.. *Key Engineering Materials*. 2006; 312:53-58.
17. Bungler, A.P.; Jeffrey, R.G.; Detournay, E. Experimental investigation of crack opening asymptotics for fluid-driven fracture. *Strength, Fracture and Complexity*. 2005; 3(2-4):139-147.
18. Lecampion, B.; Jeffrey, R.; Detournay, E. Resolving the geometry of hydraulic fractures from tilt measurements. *Pure and applied geophysics*. 2005; 162:2433-2452.
19. Lhomme, T. ; Detournay, E.; Jeffrey, R.G. Effect of fluid compressibility and borehole on the initiation and propagation of a transverse hydraulic fracture.. *Strength Fracture and Complexity*. 2005; 3(2-4):149-162.
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Conference papers/Conference proceedings

1. Jeffrey, Rob; Chen, Zuorong; Zhang, Xi; Bungler, Andrew; Mills, Ken. Measurement and analysis of full-scale hydraulic fracture initiation and fracture reorientation. In: Lebus, Detournay, editor/s. 48th US Rock Mechanics / Geomechanics Symposium; 1-4 June 2014; Minneapolis, Minnesota, USA. ARMA; 2014. 11.
2. Wu, Bisheng; Bungler, Andrew; Zhang, Xi; Jeffrey, Rob; Huddleston-Holmes, Cameron. A heat extraction prediction for multiple fractures in a closed-loop circulation enhanced geothermal system. In: Thirty-Ninth Workshop on Geothermal Reservoir Engineering; 24-26 February 2014; Stanford, California, USA. Stanford Geothermal Program; 2014. 9 p.
3. Bungler, Andrew; Jeffrey, Rob; Zhang, Xi. Constraints on Simultaneous Growth of Hydraulic Fractures From Multiple Perforation Clusters in Horizontal Wells. In: SPE Hydraulic Fracturing Technology Conference; 4-6 February 2013; Texas, USA. Society of Petroleum Engineers; 2013. 17.
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9. Zhang, Xi; Jeffrey, Rob; Wu, Bisheng. Crack propagation from a surface assisted by fluid pressure and cooling. In: 48th US Rock Mechanics Geomechanics Symposium; 1-4 June 2014; Minneapolis, Minnesota, USA. University of Minnesota; 2013. 8 p.

10. Kear, James; Bungler, Andrew; Jeffrey, Rob; Zhang, Xi; Chen, Zuorong. Experimental Investigation of T-shaped fracture growth. In: Hydraulic Fracturing Summit 12; 21-24 May 2012; Johannesburg, South Africa. n/a; 2012. 3.
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16. Kear, James; Bungler, Andrew; Jeffrey, Rob. Experimental Investigation of T-Shaped Fracture Growth. In: Hydraulic Fracturing Summit 11; 18-22 July 2011; Melbourne, Australia. n/a; 2011. 3.
17. Wu, Bailin; Wu, Bisheng; Zhang, Xi; Jeffrey, Rob. Wellbore Stability Analyses for HPHT Well Using a Fully Coupled Thermo-Poroelastic Model. In: 2011 Asia Pacific Oil & Gas Conference and Exhibition; 20-22 September 2011; Jakarta, Indonesia. Society of Petroleum Engineers; 2011. 1 p.
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