## **Modeling Fluid-filled Fractures**



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Series of snapshots and corresponding shotgather Pressure (hydrophone) component is used for better comparison with original movie – where presumably was used pressure modulus component. On snapshots there can be seen beanlike structure of propagating within modeled fractures waves

쇒 밝

뿂쁌



Original (see previous slide)





Source Rikker "Exploding Surface" Mode 100 Hz Finitedifference method, Elastic equation, Grid 5x5 cm



particle velocity – for shotgather.



Pictures are turned to better show modelled disposition: source wave is coming from side and recorded by array of receivers above the reflector. Red lines on shotrather – correspond to time of snapshot.

Series of snapshots and corresponding shotgather. Pressure

(hydrophone) component is shown for snapshots and Vertical



Modeling for Fracking Passive Micro-Seismic



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