



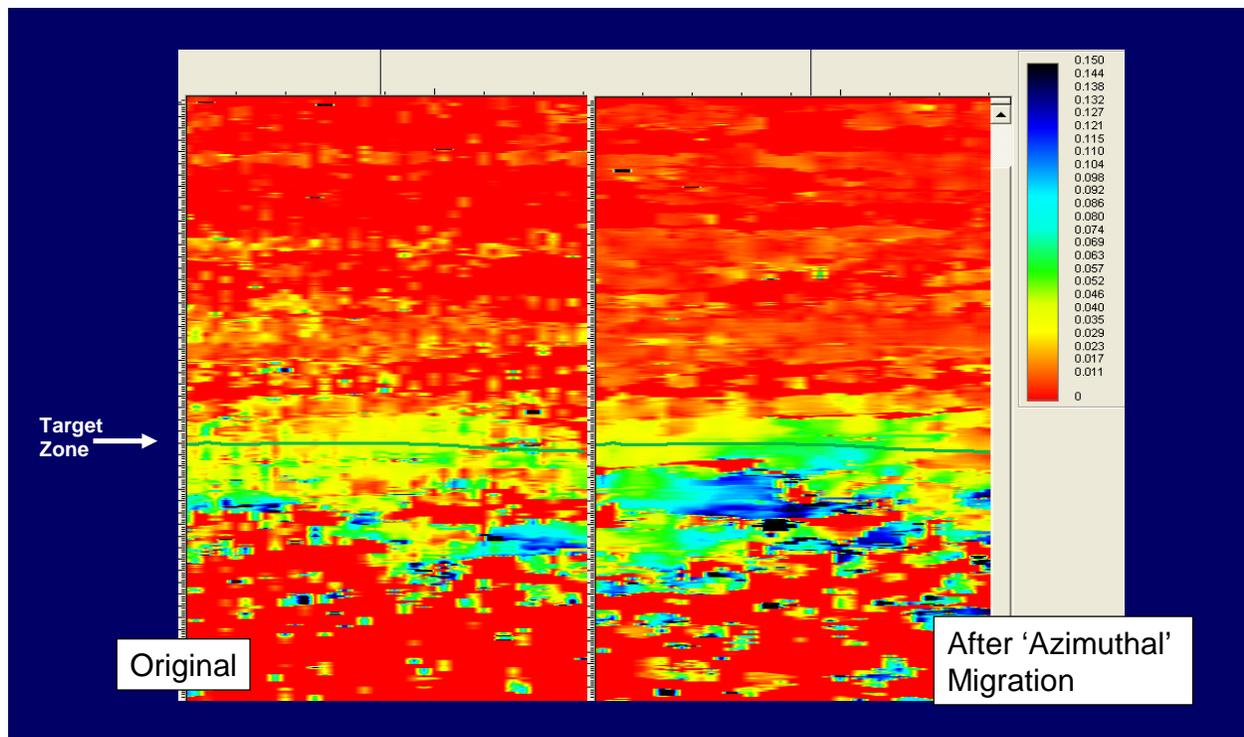
The Future of E&P

I-FracTM FRACTURE DETECTION TECHNOLOGY

Advanced Fracture Detection For Your Most Difficult Challenges

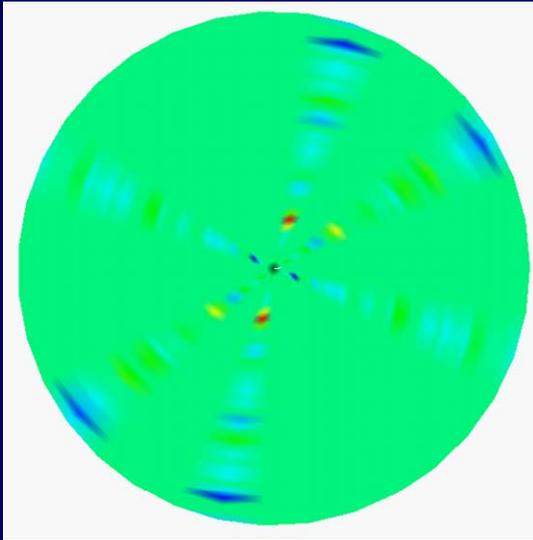
Fusion Petroleum Technologies Inc. has developed an advanced methodology for integrated fracture detection in complex geologic settings that can be used to detect and orient fractures and analyze their systematics using wide-azimuth seismic data. Fusion offers complete solutions starting with reprocessing from field tapes for a wide range of fracture problems and challenges.

The I-FracTM methodology utilizes several of Fusion's proprietary technologies including REVELTM residual velocity analysis, ExSpectTM spectral decomposition on azimuth stacks, and AVO attributes on azimuth stacks. The analysis can be performed on P-wave or mode-converted data.

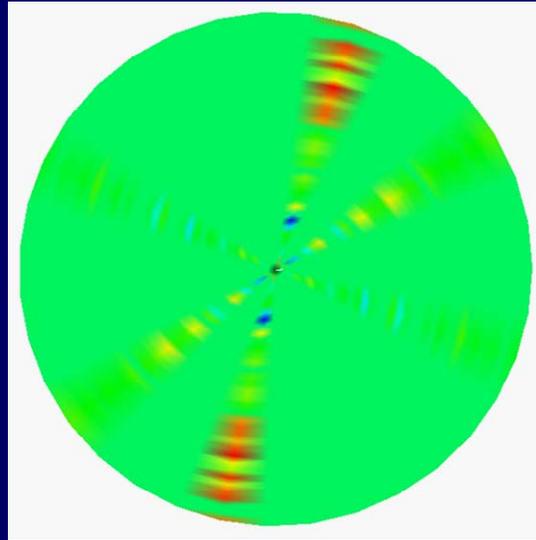


Velocity ellipticity as determined from differential moveout on seismic gathers using Fusion's proprietary REVELTM technology. The pre-processing of azimuthal gather ensembles (right side) allows the details of the azimuthal velocity field to be mapped properly.

CDP at the intersection point



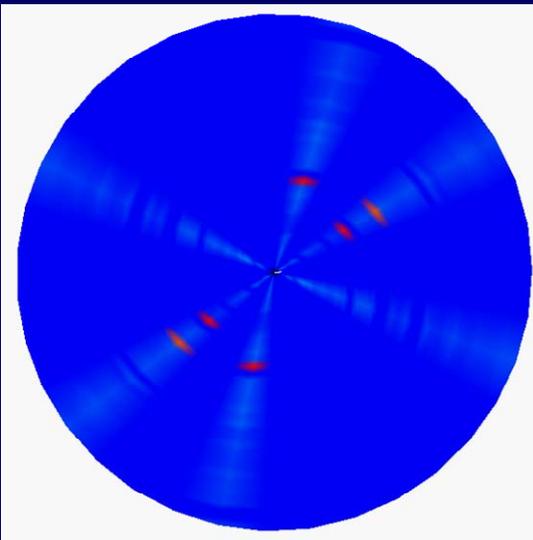
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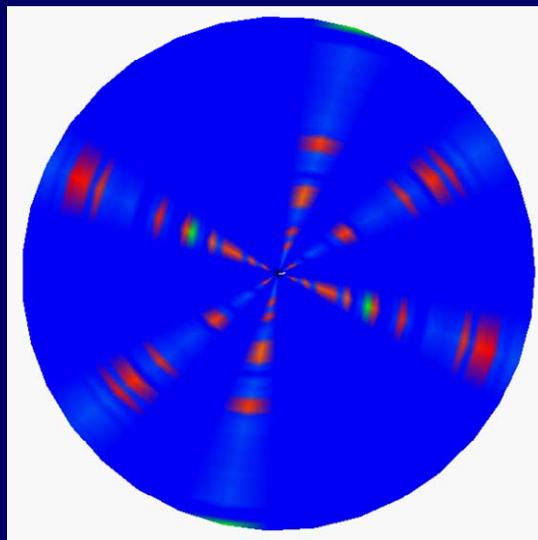
BASE

Amplitude versus azimuth on the top and base of a fractured reservoir showing the variations in the reservoir response caused by the fracturing.

CDP at the intersection point

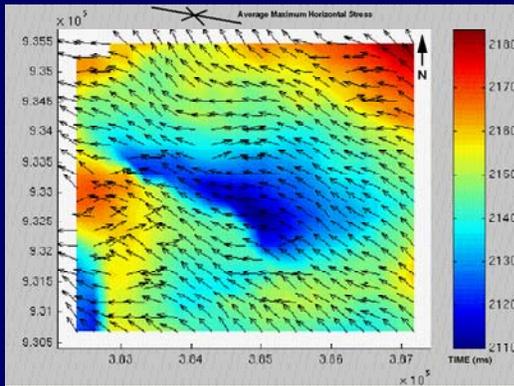


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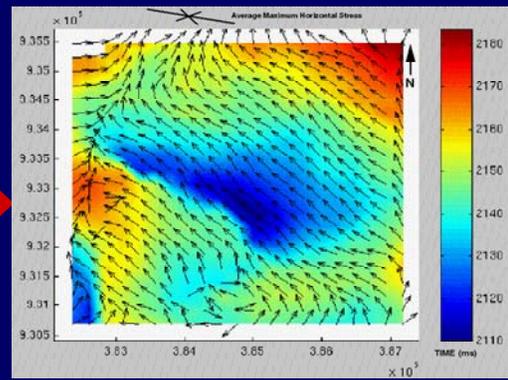


BASE

Frequency versus azimuth on the top and base of a fractured reservoir showing the variations in the reservoir response caused by the fracturing.



From P wave
Azimuthal AVO Analysis



From PS wave
Rotation Analysis

Average difference = $\pm 4\%$

Variations in fracture orientation as determined by P-wave AVO (left) and PS wave rotation analysis on 3D data showing the two independent predictions and their similarities.

Harness The Power of Fusion!

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