

## What has “Slipped between the Cracks?”

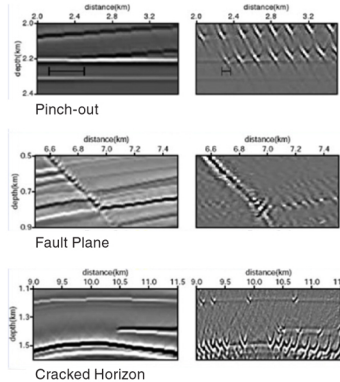
Divestco Processing’s Diffraction Imaging will show you. Why use diffractions?

- *The seismic method uses specular reflections to estimate the subsurface velocities and reconstruct the geometry of strong and continuous reflectors*
- *Correct identification of geological discontinuities is an important facet of the interpretation of seismic data*
- *The seismic response of these structural features is encoded in the diffracted wave field*
- *Geology – structural interpretation, super-resolution of faults, pinch-outs, and small-size scattering objects*
- *Physics – conventional processing/imaging flow uses specular reflections, diffractions are not well preserved or intended to be preserved*

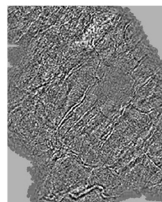
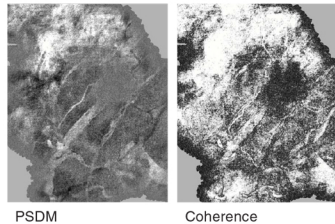
The Benefits of using Divestco Processing’s innovative Diffraction Imaging

- *Conventional fracture detection methods locate the fractures based on an indirect measurement of fracture position (AVAZ/VVAZ), or based on a post migration analysis (coherency, curvature)*
- *Diffraction imaging locates discontinuities via a direct PSTM / PSDM process – direct prospecting*
- *Diffraction imaging is meant to complement “the discontinuity story” alongside other indirect attributes (such as coherency, curvature, AVAZ/VVAZ, PSTM HTI scanning)*

Fig 01. Difference between a Stack Section and a Diffracted Stack Section



### 3D Land Example (Divestco Proprietary 3D) 5000m



Diffraction Imaging