

Confirmation of fracture zone through integration of acoustic images and multi-dimensional inversion

CHALLENGES

- Mixture of low and high-resistive fractures to be mapped equally
- Mapping the fracture zone while accurately define its orientation

SOLUTION

- Deployed the VisiTrak™ UHD reservoir mapping and navigation service and the ImageTrak™ high-resolution ultrasonic borehole imaging service

RESULTS

- Multi-dimensional Inversions used to resolve the 3D distribution of fractures
- Orientation of fracture zones were accurately defined through processing of 360° ultra-deep azimuthal tool measurements
- Dynamic selection of ultra-deep azimuthal resistivity frequencies delivered superior mapping up to the depth of detection of 50m

