

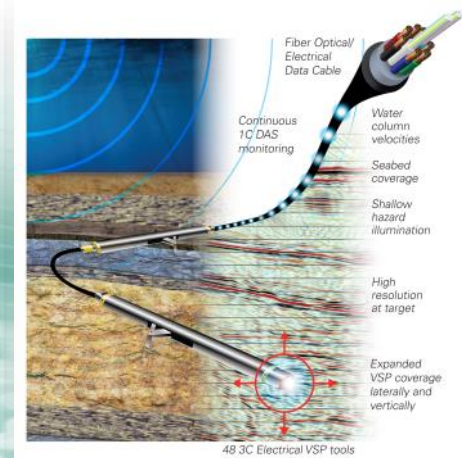
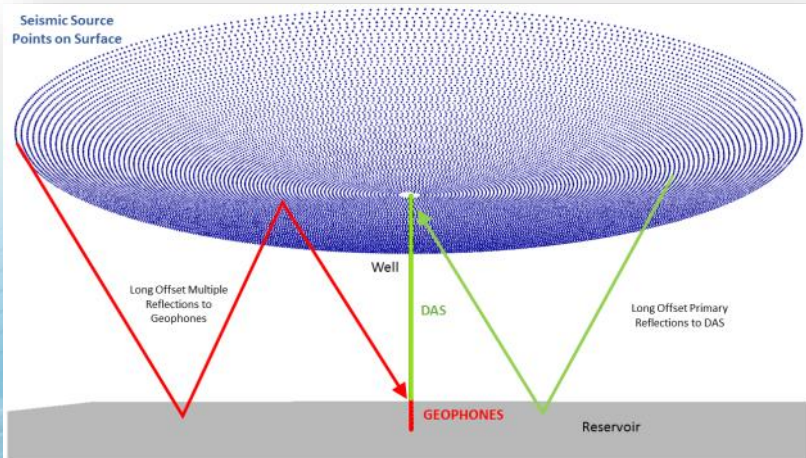


# Wireline 3D HybridVSP™

Pair with:

- ⇒ BigDipper
- ⇒ Data Processing
- ⇒ Salt Delineation
- ⇒ Full Waveform Microseismic

Give your reservoir illumination a boost with **DAS technology** combined with our unique hybrid cable and long **three component digital VSP array** with the patented **HybridVSP™** system. This has been used to acquire full well coverage 3DVSPs that deliver huge borehole seismic volumes in minimal acquisition time. Up to five times the coverage compared to traditional methods, means better reservoir characterization for accurate structural and stratigraphic mapping and increased well productivity.



Standard wireline array VSPs are limited by array length which means that there is a trade off between reservoir coverage and image quality. On the other hand, DAS recordings can cover the entire well but are prone to noise and can not image steep dips near the well and lack directional information.

The limitations are removed and the benefits are enhanced by combing the two different methods. We merge the power of the proven 3C downhole electrical geophone with continuous acoustic measurements from the fiber optical cable to surface.

The enormous data volume is handled by our new HybridVSP™ algorithms to generate compressional and shear wave 3D images, covering hundreds of kilometers around the well. For marine HybridVSP™, multiple migration gives a further 50% increase in lateral coverage and a true 3D cube to surface at a fraction of the cost of OBC or traditional surface seismic.

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