

# First BroadSeis Surveys Offshore China

The first 3D BroadSeis marine surveys have been recorded offshore China. The deepwater surveys of two areas offshore Shenzhen in the east of the South China Sea were awarded to CGGVeritas by Chinese seismic services company COSL (China Oilfield Services Limited), on behalf of its parent company, the Chinese national oil company CNOOC. Data processing is already underway in the CGGVeritas Singapore centre and is expected to be delivered by the end of 2012.

The BroadSeis surveys were contracted to CGGVeritas under a framework agreement for technical collaboration between CGGVeritas and COSL with respect to BroadSeis, the CGGVeritas proprietary marine broadband solution. CNOOC specifically identified BroadSeis for the project in order to overcome the challenge of complex imaging of both shallow and deep targets in the area.

The *Viking II* vessel, operating with eight x 8,100m Sercel Sentinel streamers equipped with Sercel Nautilus streamer control devices, acquired the approximately 1,000km<sup>2</sup> full-fold data over the two survey areas which included the heavily congested HuiZhou production area. The surveys were acquired a full ten days ahead of schedule by minimising the impact of seasonal weather patterns through accurate typhoon prediction and managing uptime through efficient operations. COSL and CNOOC congratulated the crew on the successful completion of a high-quality dataset despite significant operational challenges and without compromising safety.

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