

PAI Desert

An integrated solution for desert seismic exploration

BGP has been employing the PAI-Desert sub-package in seismic projects in such desert areas as Taklimakan, Sahara, and the Middle East, with unparalleled performance for many oil companies around the world. BGP-developed components in the package include the auger drill and sand dune curve static corrections, with advanced features embedded in interpretation and characterization of carbonate reservoirs.

■ Equipment



KZ-28 vibrator

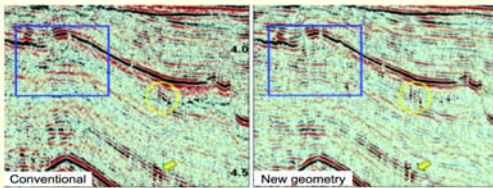


WTC5150 auger drill

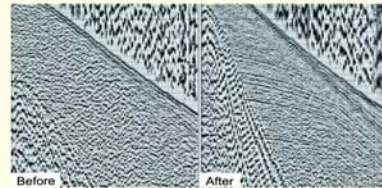


WTC5380TSM desert wagon

■ Acquisition



Small bin size, high fold, and wide azimuth geometry

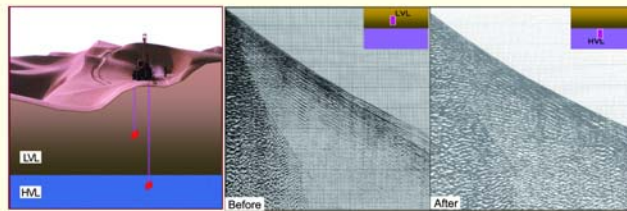


Receiver points optimization

■ Shooting



Vibrator in low relief sand dune area

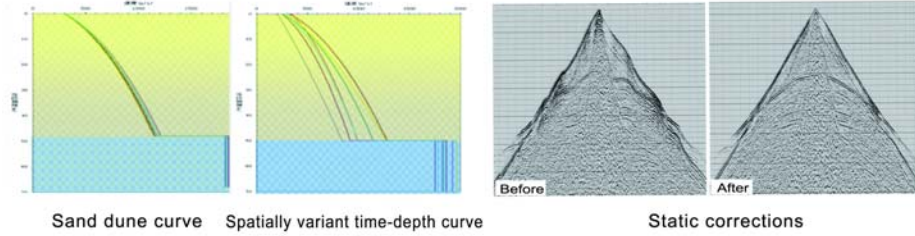


Selection of optimal shot medium



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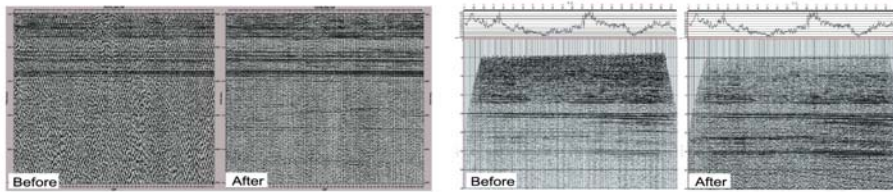
■ Static Corrections



Sand dune curve Spatially variant time-depth curve

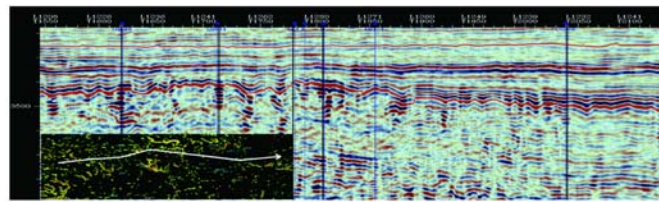
Static corrections

■ Data Processing



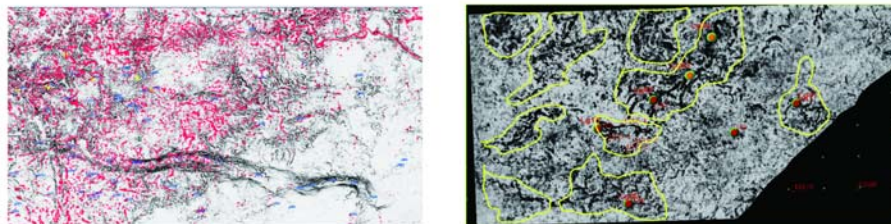
Comprehensive noise attenuation

Surface-consistent amplitude compensation



Well-tie section

■ Interpretation



Overlapped map of RMS amplitude and coherence

Inner reservoir distributions in west Lunnan



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