

ABSTRACT

Interference Noise Attenuation Method and Apparatus

A method for determining interference noise recorded in a first seismic survey of a subsurface generated by a source in a second seismic survey. The method includes receiving seismic data recorded by seismic sensors of the first seismic survey, wherein the seismic data includes seismic waves that originate from the first seismic survey and seismic waves that originate from the second seismic survey; receiving actual relative shooting timing or actual shooting timing of seismic sources of the first and second seismic surveys; applying a processing algorithm to the seismic data to calculate the interference noise, wherein the processing algorithm that takes into consideration the actual relative shooting timing or the actual shooting timing of the seismic sources; and generating a final image of the subsurface based on the recorded seismic data from which the interference noise is subtracted.

Fig. 3