

ABSTRACT

This essay consists in performing the seismic processing of three superficial seismic profiles of reflection, in which the fundamental characteristic is the bad quality of the field data due to the geological conditions of the area of study. The project supposes a revision of different strategies of multichannel processing that should be applied to the data in order to obtain seismic sections with the best signal/noise ratio possible.

The seismic prospecting carried out has been located upon the turbiditic complex of the Ainsa basin with the intention of characterizing the seismic tracks left by these superficial geological structures. With the same field data has been carried out a refraction analysis and the velocity field obtained have been used to calculate the synthetic seismogram pertaining to sonic registers carried out in the wells, with the purpose to situate the seismic reflectors to equivalent depth.