

3D exploration seismic data description

The original seismic data is a $201 \times 201 \times 201$ 3D data, which is stored trace by trace according to the Inline section. A trace is a column of data stored from top to bottom, increasing in time, or in depth.

Data range -127—127; sampling frequency: 4 ms.

The original data is changed to text format for user convenience, read and written in accordance with the InLine profile, and saved as a txt file. The two folders Col_Section and InLine_Section store the same data. The file serial number is the profile serial number, but the profile file storage methods in the two folders are different.

In the InLine_Section file, there are 201 columns and 201 rows. One row in the file is a trace seismic data and the same column is isochronous data, i.e. they are received at the same moment when the data is acquired.

The data in Col_Section is a transposition of the file data in InLine_Section, where a column in the file is a seismic data, and the data in the same line is isochronous.