Exercise 10

The principal parameters of an end-of spread data acquisition system are as follows:

- Geophone group spacing 100 m.
- Number of channels of the recording instrument 24.
- Multiplicity in coverage 6.
- Prepare a stacking chart for such an end-of spread recording.

Solution

- The shot spacing is determined as

$$d = \frac{n \times \Delta x}{2N}$$

where x=geophone group spacing=100 m, n=number of channels=24, and N = Multiplicity in coverage=6.

- For 6-fold coverage and 100 m geophone group spacing in an end-of spread using recording instrument of twenty four (24) channels, the shot spacing d becomes 200 m.
- The graph shows the stacking chart for the end-of spread recording, where geophone spacing is 100 m, number of channels 24, multiplicity in coverage 6 and the shot spacing 200 m.

- Reflection at point R takes place when the shot is at positions ……..and the detectors are at positions ……..respectively.