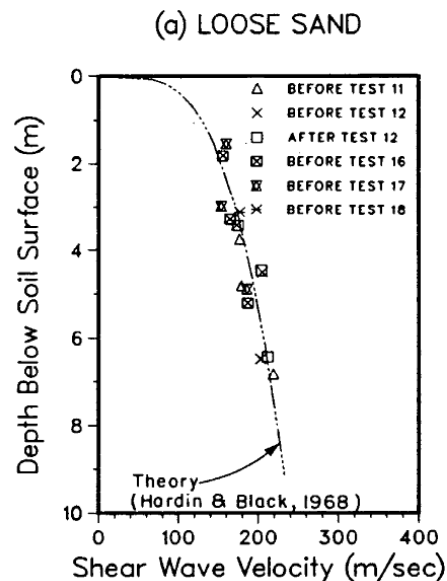


## Brief Description of Test No. 12 by Gohl (1991)

### 1. Soil Profile

The soil profile in the centrifuge test of Gohl (1991) consisted of a single layer of dry fine-grained Nevada sand ( $D_r=40\%$ ) with the thickness of 12.0 m. The unit weight and the friction angle of the soil were  $15.0 \text{ kN/m}^3$  and 34 degrees, respectively. The in-situ void ratio was measured to be 0.77, and shear wave velocity before the test was roughly 180 m/sec. The shear wave velocity profile is shown in the figure below.



### 2. Input ground Motion

The input ground motion had PGA of 0.15g with total duration of 30 seconds. You can find the time history of the input acceleration in the spreadsheet "Centrifuge Test No. 12\_Gohl\_Measurements.xlsx".

#### Note:

Further information about the test is available here in Dr. Gohl's PhD thesis available in this [link](#). Measurement at the free-field is of interest here so the records sufficiently far from the structural elements should be considered.