S wave seismic reflection survey on the Shikano fault appeared in the 1943 Tottori earthquake

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A shear wave seismic reflection survey was conducted across the Shikano fault that appeared in the 1943 Tottori earthquake (M_J7.2) at Horakuji area in Shikano, Tottori city, Japan. The length of the survey line was 200 meters, shot and seismograph intervals were both set as 1 meter. The resulting interval of Common Mid Point (CMP) was 0.5 meters. Mechanical plate hitting machine by hydraulic pressure was used as seismic source. The figure shows the depth section along the survey line with evaluated shear velocities. The Shikano fault locates at CMP number 200. Disturbance is seen in shallow surface layers in around the point. Furthermore, rather strongreflection boundary is seen at depth about 45 meters. We will interpret the results together with the data of microtremor surveys conducted in the surrounding area.
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