

Canyon Road, South of Ellensburg, WA – Eastern Washington Vibroseis Experiment – 2012

The USGS Earthquake Hazards Program collected vibroseis data along Canyon Road, south of Ellensburg, WA, as part of shallow crustal earthquake hazards investigations for Eastern Washington. The profile trended north to south. Heavy traffic conditions existed throughout the day.

Data were acquired with a “minivib 1” seismic vibrator, contracted from University of Nevada Las Vegas, using a linear sweep of 20-160 Hz over 12 seconds followed by 2 seconds of “listen” time. The sample interval was 2 milliseconds. Geophones were single 8-Hz vertical component sensors installed every 5m along the seismic profile. The source point interval was 10m. The number of channels per record was predominantly 192. Other acquisition parameters are noted in the observer’s log file. Data are unstacked and uncorrelated. Station location information is in the SEG Y file headers. The coordinates are in UTM Zone 10 N with WGS84 datum.