

N Wenas Rd, SouthWest of Ellensburg, WA – Eastern Washington Vibroseis Experiment – 2012

The USGS Earthquake Hazards Program collected vibroseis data along Black Canyon Rd as part of shallow crustal earthquake hazards investigations for Eastern Washington. The profile trended north to south along Black Canyon Rd near N Wenas Rd, southwest of Ellensburg, WA. There was no traffic in this area.

Data were acquired with a “minivib 1” seismic vibrator, contracted from University of Nevada Las Vegas, using a linear sweep of 20-160 Hz. This sweep was over 12 seconds followed by 2 seconds of “listen” time for field file records 1007-1284, but sweep changed to be over 10 seconds followed by 2 seconds of “listen” time for field file records 1285-2009. 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 is 5m from field record files 1007-1947, and 10m for field record files 1948-2009. The number of channels per record was predominantly 192. Further acquisition parameter information is noted in the observer’s log file. Field files 1001-1006 and 2006-2009 are not included in this dataset. Data are unstacked and uncorrelated. Station location information is in the SEGY file headers. The coordinates are in UTM Zone 10 N with WGS84 datum.