

Figure 3.—Rock bolts instrumented with load cells.

Figure 5 shows the location and types of instruments installed in the intersection.

A CR10 datalogger manufactured by Campbell Scientific, Inc., Logan, UT, was chosen because of its ability to record information from a number of instrument types (Seymour et al.

1998; Larson et al. 1995; Larson and Maleki 1996), including vibrating-wire strain gauges and thermistors, load cells, pressure transducers, and voltage potentiometers. An Excel spreadsheet was used for data analysis.

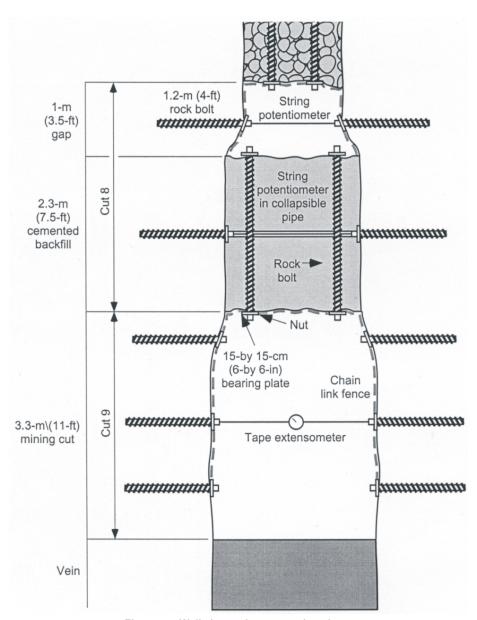


Figure 4.—Wall closure instrument locations.