

**Site Name: Morben Quarry      Grid Reference: SN 71509919**

**RIGS Category:** Educational, Historical & Scientific

**Earth Science Category:** Silurian Stratigraphy (Llandovery) and Structural Geology

**Geology 1:50,000:** BGS Sheet 163, Aberystwyth

**RIGS Statement of Interest:**

This disused slate quarry is of regional geodiversity importance because it provides a particularly well-exposed section from the Cwmsymlog Formation into the Devil's Bridge Formation. These Lower Silurian formations comprise mudrocks that clearly illustrate the effects on sedimentation of variations in the oxygen content of the sea-bottom in deeper parts of the Welsh Basin. The rocks are deformed by an unusually tight fold, seen in 3-dimensions, in which part of the succession has been inverted. The style of quarrying is noteworthy: a deep vertical-sided pit that required a tunnel (adit) to drain it and remove the slates.

**Surveyed by:** R. Cave, W.R. Fitches & R. Mathews