

Site Name: Moyddin Fach Road Cutting Grid Ref: SN 475513

RIGS Category: Educational & Scientific

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

1:50,000 Geological: BGS Sheet 194 New Quay

RIGS Statement of Interest:

The sandstones and mudstones of the early Silurian Allt Goch Formation exposed in the cutting were deposited in submarine channels that flowed north eastward from an uplifted region in SW Wales into axial regions of the Welsh Basin. The positions and alignment of the channels were controlled by active basin-parallel faults of the Llangranog, Teifi and Central Wales fault lineaments. These channels coincided approximately with older, late Ordovician channels identified to the southwest and are probably precursors of those that carried sediment making up the early Silurian Aberystwyth Grits Group. This road cutting provides exceptionally rare and high quality exposures of the Allt Goch channel deposits, together with sedimentary structures in the sandstones that give flow-direction data. A geological bonus is the presence of clearly visible small-scale folds that were produced during the Late Caledonian (Acadian) Orogeny. This cutting, in a region of very poor rock exposure, is of major research interest for sedimentologists and structural geologists, and may also be used for education purposes.

Surveyed by: W.R. Fitches