



## South Wales RIGS Group Site Record RIGS Description

**SECTION A**

General	South Wales
<b>Site Name:</b> Aber Lledle	<b>File Number:</b> Site_229_230_246_31
<b>RIGS Number:</b> 600	<b>Surveyed by:</b> Leanne Hughes
<b>Grid Reference:</b> SN 4742 0966	<b>Date of Visit:</b> 26 <sup>th</sup> October 2010
<b>RIGS Category:</b> Educational, Scientific	<b>Date Registered:</b> <b>Owner:</b> Unknown
<b>Earth Science Category:</b> Stratigraphical, Sedimentological	<b>Planning Authority:</b> Carmarthenshire County Council
<b>Site Nature:</b> Exposed face	<b>Documentation prepared by:</b> Leanne Hughes
<b>Unitary Authority:</b> Carmarthenshire County Council	<b>Documentation last revised:</b> 5 <sup>th</sup> December 2010
<b>OS 1:50,000 Sheet:</b> 159	<b>Photographic Record:</b> Attached
<b>OS 1:25,000 Explorer Sheet:</b> 178	
<b>BGS 1:50,000 Sheet:</b> E229 Carmarthen	
<b>RIGS Statement of Interest:</b>	
<p>The exposure in this location shows a 4m thick sequence of the South Wales Lower Coal measures are a grey coal bearing mudstone and siltstone with occasional sandstone across a section 7m wide. Further south along the track an exposure at 90 degrees to the previous one can also be seen providing a complete 3D picture of the unit. There are few places left in the region where such a large sequence of rock can be seen.</p>	

**Geological setting/context:**







A coarsening upwards sequence of shales, grey micaceous mudstones and siltstones as part of the South Wales Lower Coal Measures, the whole unit is dipping gently southwards. The unit is approximately 200m thick in this region of Wales. Very small fragments of plant fossils are present in some rocks. The whole sequence is of Westphalian age of the Lower Coal Measures group. The coal measures were formed in a large deltaic environment which experienced cycles of sudden subsidence causing marine flooding. Followed by a gradual 'muddying up' of the basin. These repeated cycles form the different units present such as the fluvial sandstones and swamp coal measures

**References:**

SQUIRRELL, H C and DOWNING, R A. 1969. Geology of the South Wales Coalfield, Part I, the country around Newport (Mon), Memoir IGS sheet 249 (third edition)

WATERES, C N, BROWNE, M A E, DEAN, M T and POWELL, J H. 2007. Lithostratigraphical framework for Carboniferous successions of Great Britain (Onshore). BGS research report RR/07/01

**SECTION B**

<b>PRACTICAL CONSIDERATIONS:</b> Please score Accessibility and Safety Red Amber or Green			
<b>Accessibility:</b>			X 
Comment: 30m north east of the track from Llwynyreo.			
<b>Safety:</b>		X 	
Comment: The section appears mostly stable but a hard hat is recommended			
<b>Conservation status:</b> There are no known conservation designations of this RIGS			

<b>OWNERSHIP/PLANNING CONTROL:</b> <b>Owner/tenant:</b> Unknown <b>Planning Authority:</b> Carmarthenshire County Council <b>Planning status/constraints/opportunities:</b> There are no known planning constraints or opportunities
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<b>CONDITION, USE &amp; MANAGEMENT:</b> <b>Present use:</b> Not clear <b>Site condition:</b> good <b>Potential threats:</b> Vegetation encroachment <b>Site Management:</b> clearance
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<b>SITE DEVELOPMENT:</b> <b>Potential use (general):</b> Stratigraphic  <b>Potential use (educational):</b> Sedimentological
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<b>Other comments:</b>
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## Photographic Record





