

CAVAN - COUNTY GEOLOGICAL SITE REPORT

NAME OF SITE	Western Cuilcagh – Legeelan Quarry		
Other names used for site			
IGH THEME	IGH8 Lower Carboniferous		
TOWNLAND(S)	Legeelan		
NEAREST TOWN/VILLAGE	Blacklion		
SIX INCH MAP NUMBER	4		
ITM CO-ORDINATES	606696E 833988N		
1:50,000 O.S. SHEET NUMBER	26	GSi BEDROCK 1:100,000 SHEET NO.	7

Outline Site Description

This is a small disused quarry beside the road from Blacklion to Burren Forest.

Geological System/Age and Primary Rock Type

The rocks here are part of the Lower Carboniferous Dartry Limestone Formation, and the quarry displays a good example of the Knockmore Limestone Member, which is the carbonate mudbank facies of the formation.

Main Geological or Geomorphological Interest

The quarry displays the internal structure of a Lower Carboniferous mud mound, typical of the Knockmore Limestone Member of the Dartry Limestone Formation. Mud mounds found in Ireland formed on the Lower Carboniferous sea floor, both by the vertical accumulation of lime mud and by lateral migration of mud banks over the sea floor surface. These mudmounds formed contemporaneously with the bedded, cherty limestone of the Dartry Limestone Formation so it is common to see beds of limestone flanking the massive mud mounds. At Legeelan Quarry a mud mound can be seen as massive limestone, with beds of limestone draped over the mound and dipping down the flanks.

Site Importance – County Geological Site; recommended for Geological NHA

This is a useful section to visualise and demonstrate the morphology of a carbonate mud mound.

Management/promotion issues

The quarry floor is usually filled with silage bales but these do not obscure the view of the carbonate mud mound from the road. The land is private but the view from the public road is perfectly adequate to visualise this small mound development.



A view of Legeelan Quarry from the road to the south.



A view of Legeelan Quarry from the road, showing the mudmound and draping beds.



