

# Enterkin Mudstone Formation

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[Jump to navigation](#) [Jump to search](#)



## Contents

- [1 Enterkin Mudstone Formation \(ENT\), Carboniferous, Midland Valley of Scotland](#)
  - [1.1 Name](#)
  - [1.2 Lithology](#)
  - [1.3 Genetic interpretation](#)
  - [1.4 Stratotype](#)
  - [1.5 Lower and upper boundaries](#)
  - [1.6 Thickness](#)
  - [1.7 Distribution and regional correlation](#)
  - [1.8 Age and biostratigraphical characterisation](#)
- [2 References](#)

## Enterkin Mudstone Formation (**ENT**), Carboniferous, Midland Valley of Scotland

Enterkin Mudstone Formation is part of the [Clackmannan Group](#)

### Name

From Enterkin Burn, north of Carronbridge, Dumfries and Galloway. Defined as a formation by McMillan (2002<sup>[1]</sup>; see also Simpson and Richey, 1936<sup>[2]</sup>).

### Lithology

The formation consists dominantly of purple-grey mudstone and siltstone with interbedded sandstone.

### Genetic interpretation

This *mixed shelf carbonate and deltaic ('Yoredale') facies* unit formed in a marine-intertidal environment. The mudstones contain a marine fauna.

### Stratotype

The type section is in the Enterkin Burn (NS 8706 0526) where up to 15 m of interbedded red-brown and purple mudstone and siltstone, and purplish red sandstone and seatearth are exposed (McMillan, 2002<sup>[1]</sup>; Simpson and Richey, 1936, table 3<sup>[2]</sup>).

### Lower and upper boundaries

The base of the formation is unconformable on the mainly sandstone-dominated turbidites of the Ordovician Glenlee Formation, Leadhills Supergroup.

The top of the formation is conformable with the base of the Scottish Lower Coal Measures Formation (Figure 6, Column 6) comprising sandstones, siltstones and mudstones, with seatearths.

## Thickness

Up to 15 m of the formation are exposed at the type section in the Enterkin Burn (NS 8706 0526) (McMillan, 2002<sup>[1]</sup>; Simpson and Richey, 1936, table 3<sup>[2]</sup>).

## Distribution and regional correlation

The formation is restricted to the Thornhill Basin. The mudstones contain a fauna, that suggests possible correlation with the Clackmannan Group (undivided) Visean strata of the Sanquhar Basin.

## Age and biostratigraphical characterisation

Visean to Namurian (Brigantian to early Pendleian). The mudstones contain a brachiopod, bivalve and nautiloid fauna, which may be of similar age to the fauna of the Closeburn Limestone Formation.

## References

- ↑  <sup>[1]</sup>  <sup>[1.1]</sup>  <sup>[1.2]</sup> McMillan, A A.2002.Geology of the New Galloway and Thornhill district.*Memoir of the British Geological Survey*, Sheets 9E and 9W (Scotland).
- ↑  <sup>[2.0]</sup>  <sup>[2.1]</sup>  <sup>[2.2]</sup> Simpson, J B, and Richey, J E.1936.The geology of the Sanquhar coalfield and adjacent basin of Thornhill.*Memoir of the Geological Survey of Great Britain*, Sheets part 9 and 15 (Scotland)

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Category:

- [Carboniferous lithostratigraphical nomenclature](#)

## Navigation menu

### Personal tools

- Not logged in
- [Talk](#)
- [Contributions](#)
- [Log in](#)
- [Request account](#)

### Namespaces

- [Page](#)
- [Discussion](#)

## Variants

## Views

- [Read](#)
- [Edit](#)
- [View history](#)
- [PDF Export](#)

## More

## Search

## Navigation

- [Main page](#)
- [Recent changes](#)
- [Random page](#)
- [Help about MediaWiki](#)

## Tools

- [What links here](#)
- [Related changes](#)
- [Special pages](#)
- [Permanent link](#)
- [Page information](#)
- [Cite this page](#)
- [Browse properties](#)

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- [About Earthwise](#)
- [Disclaimers](#)

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