

Townburn Sandstone Member

From Earthwise

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

Contents

- [1 Townburn Sandstone Member \(TWN\), Carboniferous, Midland Valley of Scotland](#)
 - [1.1 Name](#)
 - [1.2 The Townburn Sandstone Member derives its name from its reference section \(see Stratotype below\). Previous names include the Crichope Sandstone Member and Passage Group \(undivided\).](#)
 - [1.3 Lithology](#)
 - [1.4 Genetic interpretation](#)
 - [1.5 Stratotype](#)
 - [1.6 Lower and upper boundaries](#)
 - [1.7 Thickness](#)
 - [1.8 Distribution and regional correlation](#)
 - [1.9 Age](#)
- [2 References](#)

Townburn Sandstone Member (**[TWN](#)**), Carboniferous, Midland Valley of Scotland

Townburn Sandstone Member is part of the [Passage Formation](#)

Name

The Townburn Sandstone Member derives its name from its reference section (see Stratotype below). Previous names include the Crichope Sandstone Member and Passage Group (undivided).

Lithology

Mainly medium- to coarse-grained sandstone with subsidiary conglomerate and pebbly sandstone.

Genetic interpretation

The member comprises fluvial-channel sands deposited in low sinuosity braided channels. (McMillan, 2002, p.74^[1]; Jones, 1994^[2]).

Stratotype

The type section is between 161.39 and 202.94 m depth in the Crichope Linn Borehole (BGS Registration Number NX99NW/1) (NX 9093 9551). A reference section is the Town Burn, Townburn Wood, Closeburn, 650 m north-east of Barraby Farm (NX 9146 9390). McMillan (2002, p. 71)^[1] described this exposure as one of several localities in the Thornhill district where sequences up to

15 m thick of pebbly sandstone and beds of conglomerate can be seen (see also Simpson and Richey, 1936^[3]).

Lower and upper boundaries

The lower boundary is unconformable on the mainly sandstone turbidites of the Lower Palaeozoic Glenlee Formation (Ordovician) and Gala Group (Silurian), though it rests locally on the Lower Carboniferous limestone and dolomitic limestone with interbedded sandstone, siltstone and mudstone of the Closeburn Limestone Formation, or the mudstone and siltstone with interbedded sandstone of the Enterkin Mudstone Formation.

The base of the nonmarine fossiliferous Scottish Lower Coal Measures Formation conformably overlies the fossil-free Townburn Sandstone Member.

Thickness

Some 41.55 m in the Crichhope Linn Borehole (see above).

Distribution and regional correlation

Thornhill Basin at Closeburn, Keir, Eccles, River Nith (Drumlanrig), Hapland, Fellend, Townhead and Morton Wood.

Age

Namurian to Westphalian.

References

- ↑ ^[10] ^[11] McMillan, A A.2002.Geology of the New Galloway and Thornhill district.*Memoir of the British Geological Survey*, Sheets 9E and 9W (Scotland).
- ↑ Jones, N S.1994.Core log of the BGS Closeburn Borehole [NX 90210 91450].*British Geological Survey Technical Report*, WH/94/147R.
- ↑ 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).

Retrieved from

'http://earthwise.bgs.ac.uk/index.php?title=Townburn_Sandstone_Member&oldid=52749'

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](#)

• This page was last modified on 26 July 2021, at 15:53.

- [Privacy policy](#)
- [About Earthwise](#)

- [Disclaimers](#)

