Welcome to a special landscape…

…shaped by millions of years of natural processes and thousands of years of human activity.

The landscape around Blanchland has been over 300 million years in the making. From tropical seas and deltas to glaciers, minerals and miners – all have played their part in shaping this beautiful landscape.

This circular walk will introduce you to some of the special features of the landscape around Blanchland. By spotting clues in the moors, fields and buildings you’ll find out how the landscape around Blanchland has been shaped and consider the local heritage of the area.

The sections opposite give some background information about how the local rocks and minerals formed, and tell you a bit about the area’s mining heritage.

Look out for the START on the map overleaf and follow the footsteps…

Walk distance: 5.6 km (3½ miles) with 120 m of ascent, taking about 1½ – 2 hours

Start/Finish: Blanchland car park (donations welcome)
Grid Reference NY 964 504

Terrain: This route follows well-made tracks, minor roads and a public footpath, through farmland, across moorland and beside the River Derwent. There is a sustained but gentle climb to start and a moderately steep descent near the end. Wear strong shoes or boots. Please keep dogs under close control (on a lead across the moor) and leave gates as you find them.

Keep well clear of old mine workings.

Public transport: For timetable information call Traveline on 0871 200 2233

Useful maps:
Ordnance Survey
1:50 000 Landranger 87 Hexham & Haltwhistle
1:25 000 Explorer OL43 Hadrian’s Wall
1:25 000 Explorer OL17 Consett & Derwent Reservoir
British Geological Survey
1:50 000 Geological Sheet 19 Hexham

Formation of the layered Carboniferous rocks of the North Pennines

This route is on footpaths that cross private land which has been owned and managed by Lord Crewe’s Charitable Trust for almost 300 years. Thank you to those who kindly provided comments. This route is on footpaths that cross private land which has been owned and managed by Lord Crewe’s Charitable Trust for almost 300 years. Thank you to those who kindly provided comments.

We provide a summary of the key formation of the layered Carboniferous rocks of the North Pennines:

Tropical North Pennines

The rocks you’ll see in and around Blanchland formed between 360 and 300 million years ago – in the Carboniferous Period of Earth history. Back in those distant times, the North Pennines lay near the equator and were periodically covered by shallow tropical seas. Skeletons of sea creatures accumulated as limy ooze on the sea floor. Rivers washed mud and sand into the sea, building up vast deltas on which swampy forests grew.

In time, the limy ooze hardened to limestone, the mud and sand became shale and sandstone, and the forests turned to coal. Periodically, the sea rose, drowning the deltas and depositing limestone again.

This cycle happened many times, building up repeating layers of limestone, shale, sandstone and coal. The contrast in hardness of these different rocks has influenced the shape of the North Pennine hills. Layers of hard rock such as sandstone and limestone stand out as terraces, whereas the softer, easily eroded shales form the gentler slopes between the terraces.

On this walk you’ll see sandstone, shale, terraced hillsides, evidence of ancient river currents, and fossils of some of the plants that grew in the swampy forests.

Hot water and minerals

In the rocks beneath your feet there is a network of mineral veins. These veins formed about 290 million years ago, from warm, mineral-rich fluids which flowed through the rocks deep underground. These solutions were heated by a buried granite known as the Weardale Granite. As the fluids cooled, their dissolved minerals crystallized on the walls of the cracks, gradually building up the mineral veins and deposits for which the North Pennines is world-famous.

Centuries of mining

These mineral deposits were the foundation of the North Pennine economy for many centuries. Lead mining was the most important industry, but many other minerals were also mined at different times.

The history of lead mining around Blanchland goes back at least to medieval times. Some early mining appears to have been for silver as well as lead, silver is present in small amounts in galena (lead ore) and is a by-product of lead smelting. Lead mining had its heyday in the 18th and 19th centuries, but by the late 19th century the industry was in decline. In the 20th century, until the 1980s, the area was important for fluorspar (also known as fluoropar), which was used in iron and steel making, and in the chemical industry. Evidence of the area’s mining past can be seen all over the landscape – as you’ll see on this walk. Look out for mine shafts, miners’ cottages, chimneys and spoil heaps.
1 Terraced hillsides
The hillside to the right of the track rises to a flat-topped terrace. The track gradually climbs up to this and you reach its top at a wide field entrance on the right, about 500 m further along the track. Terrace features like these are characteristic of the North Pennines and are the result of the weathering of alternate layers of hard sandstone and soft shale.

2 Pennypie House
The name of Pennypie House is thought to have originated at a time when pies were sold here to passing drovers and lead miners – for a penny!

Go through the gate on to the moor and turn left. Follow the track along the moor edge.

3 Barn and dry stone walls
The barn beside the track shows the nature and variety of the local sandstones. The barn is mainly built of gritty sandstone containing small quartz pebbles. A similar variety of sandstones can be seen in the dry stone walls along the route. The barn roof is made of thin sandstone slabs.

4 Shale
Soft and flaky grey shale, much burrowed by rabbits, is exposed on the right side of the track.

5 Old shaft
A fenced-off area on the left of the track marks the site of one of many deep shafts that provided access and ventilation to the underground workings. These long-abandoned shafts, some over 200 m deep, are in a dangerous condition – please keep well clear!

6 Shale
Soft and flaky grey shale, much burrowed by rabbits, is exposed on the right side of the track.

7 Shildon Lead Mine
Just beyond a wooden shed, look through a gateway on the right. A few overgrown stone walls above the stream are the remains of the ore treatment areas of the once-important Shildon Lead Mine. A horizontal tunnel, or adit, from the side of the stream here gave access to a complex of underground workings. Lead ore was worked here until the late 19th century.

8 Fossil plants
Several large blocks of fine-grained sandstone in front of the tearoom contain fossil tree roots. This type of sandstone is known as ‘ganister’ and is fossilised soil upon which lush tropical forests of giant ferns, horsetails and clubmosses grew during Carboniferous times.

9 Blanchland
The buildings of this historic village are made of local sandstone and most of their roofs are made of thin sandstone slabs. Many of these slabs came from Ladycress Quary in Slaley Forest, about 4 km (2 1⁄2 miles) to the north, where such sandstone has been quarried for at least 300 years and is still worked today.

10 Old shafts
In the field on the left side of the track, a line of grassed-over mounds of mine waste marks the line of the Feltgrove Vein, one of those worked for lead at Shildon Mine.

11 Smelt mill chimney
As you walk along the track, look ahead to the hillside on the other side of the Derwent Valley. The chimney on the skyline was at the end of a long flue system which carried fumes away from a lead smelt mill in the valley.

Go through the gate and follow the road downhill to Baybridge. Follow the footpath along the north side of the river.

12 Minerals from the mines
This shingle bank is a good place to spot minerals brought down from mine spoil heaps by the river. Look out for bits of galena (lead ore). When fresh, galena is a bright metallic grey, but when exposed to air it becomes a dull lead-grey. You can also find small rounded pebbles of purple fluorite.

13 Bedded sandstone
Sandstone forms small cliffs in the riverbank opposite the playground. These show roughly flat-lying layering, known as ‘bedding’, a feature which formed when the rocks were deposited as layers of sand in ancient river deltas.