Causey Pike

Leader: Bernard Skillerne de Bristowe 18 July 2021

Some 19 members met on a sunny Sunday morning at Uzzicar (NY 232 217), in the Newlands Valley by the site of the old Barrow Mine (Figure 1). Bernard outlined the three main aims of the trip, these were firstly, to examine a variety of sedimentary structures including turbidite sequences of the Buttermere Formation; secondly, to cross the Causey Pike Fault, where hornsfelsed Kirk Stile Formation is thrust over unaltered Robinson Member of the Buttermere Formation; and, thirdly, to see evidence of mineralisation and of the Crummock Water aureole.

As we walked up the path by Stoneycroft Gill in Buttermere Formation (NY 23138 21275) it was noted that the exposures of axial plane cleavage



Figure 1 Bernard explaining the aims of the trip at Uzzicar



Figure 2 NY 22770 21200 Looking for Bouma units such as parallel lamination and cross-lamination.

examining sedimentary structures that indicated that the strata were inverted.

At NY 21968 20758 there was an antiform but the strata were upside down so the structure was an inverted synform (Figure 3.)

and small folds were clearer on the path than on the hillside by the path. By the stream, (NY 22770 21200), parallel laminated and cross laminated, units of the Bouma sequence were seen in a small quarry face (Figure 2).

Some of the party scrambled up the hillside and examined numerous exposures which showed a variety of features including ripple cross lamination and truncations, boudinage and Acadian crenulation cleavage. They then met the remainder of the party at NY 22667 21016.

After lunch on the hause, admiring the view, we continued on the path upwards



Figure 3 Bernard explaining the inverted synform.

Causey Pike



Figure 4 NY 21893 20834 Kirk Stile formation thrust over Robinson Member of the Buttermere Formation at the fault.



Figure 5 NY 21756 20899 tourmaline veins

The Causey Pike thrust is exposed at NY 21893 20834 as bleached and hornfelsed Kirk Stile Formation is thrust over the Robinson Member (Figure 4).

As we left the top of Causey Pike we saw evidence of tourmaline veining at NY 21756 20899 (Figure 5).

As we sat near the top of Causey Pike Bernard explained that the Causey Pike Fault started as a listric normal fault but has been reactivated many times and is now seen as a reverse fault. By this time some of the group had gone ahead and others had turned back. Bernard was thanked for an interesting and informative excursion and then Peter Sapsford took over the lead and 5 of us visited the cobalt mine on the side of Scar Crags (NY 20570 20607, Figure 6).

Helen James



Figure 6 NY 20570 20607 Peter by the Cobalt Mine entrance