

HOUGILL FELLS (Celt. *Uchel*, elevated).—Lying west from this series, and contrasting with them in every respect, is the tract of Hougill Fells,—divided between Yorkshire and Westmoreland. Naturally it belongs to the latter, being composed of the slaty rocks usual in that county, and separated from the limestone and gritstone of Yorkshire by a line of valley and a line of fault. In accordance with the nature of the rocks is the character of the scenery; intersecting slopes in angular masses of grey rock, breaking through steep green surfaces, give to this district a very different aspect from the broad swells, rough craggy edges, and brown or purple heath, which mark the greater part of the Yorkshire Fells. The waterfall of Codley Spout, a cascade of several hundred feet, is in this group, whose culminating summit, the 'Calf,' is 2188 feet, according to the Ordnance Survey, or 2220 feet, according to the measure of Mr. Nixon, above the sea. Hougill Fells are on the east bank of the Lune, which embraces them in its wandering and beautiful course.

WATER CRAG GROUP.—A few miles within or to the east of the line of 'heaven-water' drainage, between Swaledale and Arkendale (which is a branch of Swaledale), three broad moorland surfaces rise to heights exceeding 2000 feet. These are Roggan Seat, 2207 feet (Nixon), Water Crag, 2184 O. (2191 N.), and Pin Seat, 2125. Between Arkendale and Greta Dale, Hoove and Baxton Knab are the highest points, the former being 1823 feet. These are hills of millstone grit, with thin coal seams, resting on the Yoredale limestones, which form magnificent scars along Arkendale and Swaledale. Calver, a limestone hill, and Healaugh Crag, composed of rough millstone grit, near Reeth, are conspicuous objects. The famous Auld Gang, and Arkendale mines, on veins which run for many miles east and west, are in this group of mountains. They were probably worked by the Romans.

SWALEDALE HEAD.—A singular crescent of gritstone summits encircles all the first feeders of the Swale, and thus hides from the wanderer in the upper part of the dale every thing but