

FIG. 5.—PORPHYRY DIKE CUTTING SAN JUAN TUFF ON DIVIDE AT HEAD OF DEXTER CREEK.
Illustrates the common texture, rude bedding, and general appearance of the San Juan tuff-agglomerate where little altered. The dike is one of several crossing Cow Creek with similar wall-like outcrops.

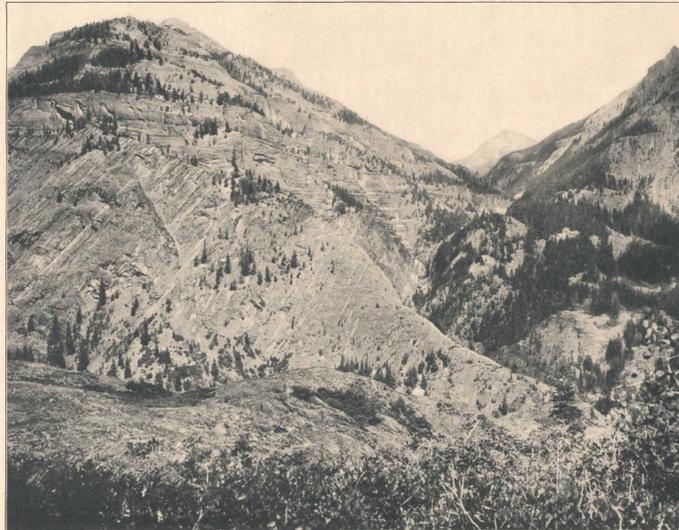


FIG. 6.—VIEW UP BEAR CREEK FROM POINT NEAR ITS MOUTH, ABOVE THE ROAD.
On the left are steeply dipping quartzites and slates of the Uncompahgre formation, overlain, with irregular unconformity, by horizontal San Juan tuff. The same structure is present on the right, though less clearly exposed.

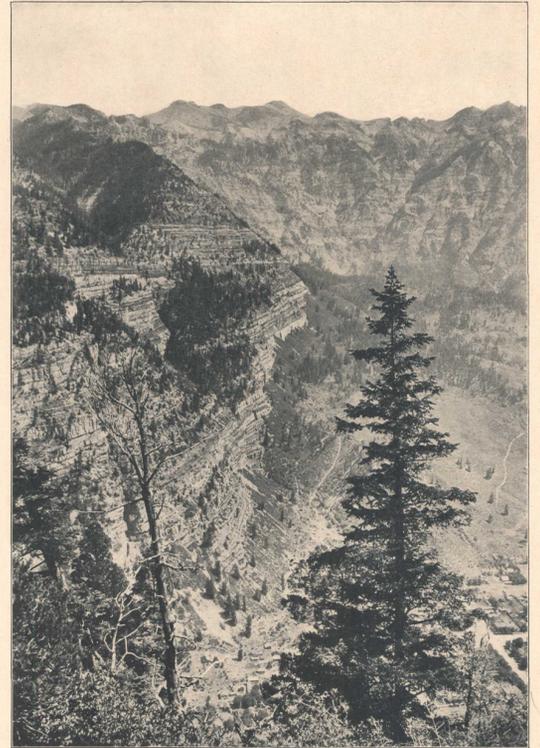


FIG. 7.—VIEW OF THE AMPHITHEATER AND CLIFFS TO THE NORTH, FROM POINT WEST OF UNCOMPAGHRE RIVER.
Illustrates the unconformity below the Dolores formation. The nearly horizontal strata at the level of the point of view are above the unconformity; the inclined strata below belong to the Hermosa and Cutler formations. The back wall of the Amphitheater is San Juan tuff-agglomerate; its floor is landslide debris.

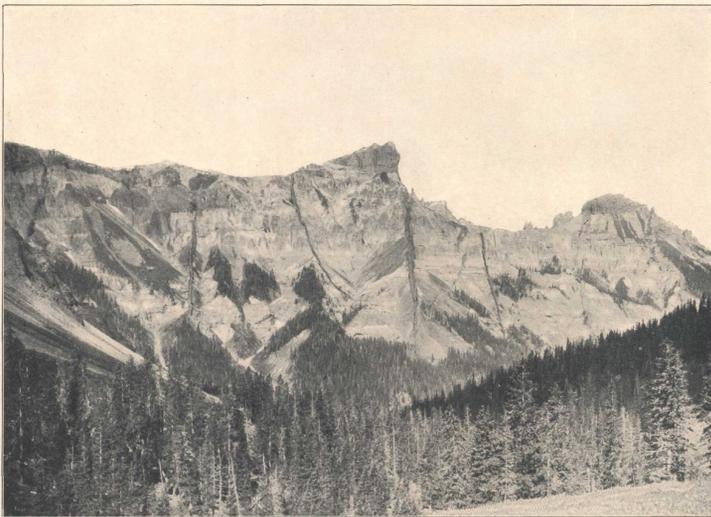


FIG. 8.—DIKE RIDGE FROM PORPHYRY BASIN.
Shows characteristic cliffs of San Juan tuff-agglomerate and overlying Potosi volcanic series, with four notable dikes of monzonite porphyry, which in some places stand out as walls.



FIG. 9.—FOLD IN CARBONIFEROUS STRATA ON WEST SIDE OF UNCOMPAGHRE RIVER SOUTH OF CORBETT GULCH.
View from point on east side of river near trail to Bright Diamond mine. The Triassic and later beds unconformably overlie these folded strata, but the unconformity is hidden.



FIG. 10.—VIEW LOOKING WESTWARD ACROSS COW CREEK AND UNCOMPAGHRE VALLEY FROM A HILL SOUTH OF LOU CREEK, ILLUSTRATING THE GRAVEL DEPOSITS OF THE UNCOMPAGHRE VALLEY.
In the central foreground is a bench of the later terrace gravels, trampled by Lou Creek. At the extreme right is the dip slope of the earlier terrace gravels, which also cap the hill from which the view is taken. The two gravel-covered mesas to the right of the center lie just beyond Cow creek. Beyond these mesas is the valley of the Uncompahgre and beyond that is the slope covered by earlier gravels, rising to Horse Fly Peak, a small prominence on the sky line near the center of the view. At that point lie the older glacial gravels. The left half of the view embraces the hills of Mancos shale between Cow Creek and the Uncompahgre and, in the distance, the mountains west of Mount Sneffels.