



Hydrothermal alteration in core of Brokeoff Volcano

View of the east wall of the canyon of Little Hot Springs Valley looking southeast from Calif. Hwy 89 on the west side of the canyon (Lassen Peak quadrangle). Erosion exposes thin to thick lava flows of the andesites of Mill Canyon (unit amc, 590–470 ka), part of the Mill Canyon sequence in the interior of Brokeoff Volcano. Permeable fragmental deposits are preferentially altered to light colors compared to dark lava flow cores. Overlying the andesites of Mill Canyon at the upper left is the less-altered andesite of Mount Diller (unit amd, 387 ± 10 ka, part of the Diller sequence). Steam vents and acid springs are abundant in landslide deposits along the floor of Little Hot Springs Valley.

Photograph by Michael A. Clynne.